



**UGC Sponsored National Seminar
on
Recent Developments in Pure and Applied Mathematics
and
19th Prof. P.D. Verma Memorial Lecture**

(NSRDPAM & PDVML- 2015)

September 12-13, 2015



Organized by

**Department of Mathematics
University of Rajasthan
Jaipur- 302004(Rajasthan)India**

ABOUT THE UNIVERSITY

In 1947, the University of Rajasthan was established as multi-faculty University. HE the President of India is the Visitor and HE the Governor of Rajasthan is the Chancellor of this University. The University offers several Certificate and Diploma Courses, UG, PG, M.Phil. and Ph.D. programmes in various disciplines at 37 Departments, 22 Centres and 6 Constituent Colleges besides 1150 Affiliated Colleges. This University accredited A+ by NAAC (2004-2009). The University provides state-of-the-art research facilities support through UGC-UPE, DST-FIST&PURSE, UGC-SAP Programmes, and research projects funded by UGC, CSIR, DST, DRDO, DBT, BRNS, other agencies and various international collaborations. The University has one of the biggest libraries in India and world class sport facilities.

ABOUT THE DEPARTMENT

The Department of Mathematics, University of Rajasthan was established in the year 1960, offers P.G., M.Phil. and Ph.D. Degree programmes. The Department is enriched with a very good NBHM library and well equipped Computer Laboratory set up under FIST program by DST. Recently, Department has been awarded DRS-II under SAP by the UGC for next five years (01.04.2015 to 31.03.2020). The Department has active research programmes in a number of different areas of Mathematics.

ABOUT JAIPUR CITY

Jaipur, known as the **Pink City** and founded by Maharaja Sawai Jai Singh-II (1693-1743) is the capital of Rajasthan. Jaipur blessed with composite culture is known for its pink houses with latticed windows, historic monuments, jewellery and handicrafts. The city normally experiences monsoon showers during the months of August-September. It is well connected with the rest of country by rail, road and air. The sites worth visiting are **Amer Fort, Jaigarh Fort, Nahargarh Fort, City Palace, Jantar Mantar, Hawa Mahal, Albert Hall Museum, Galtaji** to name a few.

ABOUT SEMINAR AND MEMORIAL LECTURE

Fluid Dynamics is a branch of Science dealing with the investigations of flows of continua under the action of external forces. It extends the ideas developed in mechanics and thermodynamics to the study of motions and equilibrium of fluids, namely liquids and gases. The application domains of it are expanded, and new investigation methods have been developed. However, certain concepts introduced by the classics of Science are still of primary importance and will apparently be of importance in the future. Fluid Dynamics under went a rapid development during the past two Centuries, and now it includes other branches also such as, Aerodynamics, Hydrodynamics, Magnetohydrodynamics, Computational Fluid Dynamics, Heat Transfer, Flow through Porous Media, Rarefied Gas Dynamics, Mechanics of Multiphase, Bio-Mechanics and reactive media etc. It follows that the Fluid Dynamics is not closed field of knowledge, but it has an interaction with other branches of Physics, Chemistry, Biology and Mathematics. Fluid Dynamics and its offshoots have extensive usage in basic and applied research, in design pertinent engineering equipments and its prediction of environmental and geophysical phenomena. Infact, Fluid Dynamics together with heat transfer aspects has become indispensable discipline in professional engineering practice in industries, defense and environmental realms.

The seminar aims at providing an interface for academicians, researchers, students and industries working on Fluid Dynamics and allied disciplines to bring forth state-of-the-art research contributions.

Professor P.D.Verma Memorial Lecture is organized every year in the Department of Mathematics in memory of Late **Professor P.D. Verma**, who was an eminent scholar in Fluid Dynamics and served the Department for his life time. Prof. Verma obtained his Ph.D. Degree under supervision of **Professor P.L. Bhatnagar, Padam Bhushan**, I.I.Sc., Bangalore. Professor Verma established a school of Fluid Dynamics in the Department. Eminent Scholars have delivered Prof.P.D.Verma Memorial Lectures on Fluid Dynamics and allied disciplines of Mathematics. This year, **Prof. O.P.Sharma**, Centre for Atmospheric Science, IIT Delhi will be delivering **19th Professor P.D. Verma Memorial Lecture**.

CALL FOR PAPERS

Original unpublished research papers are invited for presentation in the Seminar based on the areas Fluid Dynamics, Bio-fluid Dynamics, Computational Fluid Dynamics, Boundary Layer Theory, Magnetofluidynamics, Porous Media, Heat transfer, Algebra, Analysis, Integral Transform, Special Functions, Numerical techniques for Differential equations, Operations Research, Statistical Methods etc. in Mathematics.

Abstract (**in MS Word only**) should be neatly typed in 1.5 spacing on A4 size paper restricted to a maximum 500 words and sent to the **Coordinator/Organizing Secretary /Joint -Organizing Secretary** latest by **07.09.2015** through e-mail. Last date of submission of registration form with fee and abstract of paper is **07.09.2015**. **Abstracts of research papers received after 07.09.2015 will not be considered for presentation.**

REGISTRATION FEE

Rs. 300/- for Students/Research Scholars who are not in service or not getting financial support (Supervisor's Certificate, countersigned by the HOD/Principal of the College be attached).

Rs. 600/- for others

Rs. 100/- for Life Members of Prof. P.D.Verma Memorial Lecture

Note-(a) Local participants have to deposit registration fee by Cash only by **07.09.2015**, (b) Outside participants have to pay registration fee through "**Demand Draft**" in favour of "**Prof.P.D.Verma Memorial Lecture Fund**" payable at **Jaipur** and (c) Invited Speakers are exempted from registration fees.

Accommodation

Accommodation will be arranged to a limited number of outside participants on first-come-first served basis on their request with registration fee received to **Coordinator/Organizing Secretary/Joint- Organizing Secretary** on or before **07.09.2015**. Request for accommodation received after **07.09.2015** will not be considered and such participants have to make their own stay arrangements.

ADVISORY COMMITTEE

Shri J.P.Singhal

Patron

Vice-Chancellor, University of Rajasthan, Jaipur

Prof. H.P.Dikshit, Former VC, IGNOU; Chairman EPCOIES, Bhopal

Prof. Amiya Pani, IIT Mumbai

Prof. B.K.Das, DU, Delhi
Prof. G.C.Sharma, IBS, Agra
Prof.G.N.Purohit, UOR Jaipur
Prof. J.L. Bansal, UOR, Jaipur
Prof. Maithili Sharan, CAS, IIT Delhi
Prof. N.C.Sacheti, CSSQU, Muskat
Prof. P.Chaturani, IIT Mumbai
Prof. Peeyush Chandra, IIT Kanpur
Prof.R.K.Sharma, IIT Delhi
Prof. R.N.Pralhad, IATDU, Pune
Prof. R.R.Bhargava, IIT Roorkee
Prof. S.C. Rajvanshi, Chandigarh
Prof. V.K.Katiyar, IIT Roorkee
Prof. Y.N.Gaur, Noida
Shri Deepak Verma, Jaipur

EXPECTED INVITED SPEAKERS

Prof. H.S.Dhami, Vice-Chancellor, KU, Nainital will be delivering Keynote Address
Prof. O.P.Sharma, CAS, IIT Delhi will be delivering Prof.P.D.Verma Memorial Lecture
Prof. Anil Vashistha, KU, Kurukshetra
Prof. Aseem Miglani, CDU, Sirsa
Prof. C.B.Gupta, BITS, Pilani
Prof. G.S.Seth, ISM, Dhanbad
Prof. H.D.Doctor, VNSGU, Surat
Prof. J.N.Sharma, NIT, Hamirpur
Prof. Kuldeep Bansal, GJUS&T, Hissar
Prof.K.R.Pardasani, MANIT, Bhopal
Prof. Naseem Ahamad, JMI, Delhi
Prof. Navneet Arora, IIT Roorkee
Prof. N.R.Garg, MDU, Rohtak
Prof. P.N.Pandey, UA, Allahabad
Prof. Prabhakar Pradhan, GKV, Haridwar
Prof. Rajive Kansal, DCRUS&T, Murthal
Prof. Rajneesh Kumar, KU, Kurukshetra
Prof. Sangita Kansal, DTU, Delhi
Prof. Seema Sharma, GKV, Haridwar
Prof. Shanker Bandari, OU, Hyderabad
Prof. Veena Sharma, HPU, Shimla

ORGANIZING COMMITTEE

Prof.P.R. Sharma, Coordinator & Convener, PDVML
Prof. R.N.Jat, Organizing Secretary
Dr. Anil Sharma, Joint - Organizing Secretary
Dr. Paresh Vyas, Joint - Organizing Secretary
Dr. Mamta Goyal, Joint - Organizing Secretary
Dr. Amala Olkha

Shri Bharat Kumar Yadav
Shri Ganesh Kumar
Shri Meena Sanjay Babulal
Ms. Nidhi Khandelwal
Dr.Pravin Garg
Shri Rajendra Kumar Bairwa
Shri Rajendra Singh Yadav
Dr.Rashmi. Agrawal
Shri Ravi Ratn Gaur
Shri Sharad Sinha
Ms. Sushila Choudhary
Shri Vijendra Kumar Jarwal
Dr. A.K.Mathur, UOR, Jaipur
Prof. D.S.Chauhan, UOR, Jaipur
Dr. K.C.Sarangi, Bhubaneshwar
Prof. R.C.Chaudhary, UOR, Jaipur
Dr. Ranjeet Singh, JDCE, Jaipur
Prof.Raj Bali, UOR, Jaipur

CONTACT PERSONS

Prof.P.R. Sharma, Fellow IAPS
Coordinator & Convener, PDVML
Dean, Faculty of Science
Department of Mathematics, University of Rajasthan, Jaipur-302004
Mobile: 09414980851, E-mail: profprsharma@yahoo.com

Prof. R.N.Jat
Organizing Secretary
Head, Department of Mathematics, University of Rajasthan, Jaipur-302004
Mobile: 09414780165, E-mail: jat.ramniwas@gmail.com

Dr. Anil Sharma
Joint- Organizing Secretary
Department of Mathematics, University of Rajasthan, Jaipur-302004
Mobile: 09414059375, Email: anilsharma@gmail.com

Dr. Paresh Vyas
Joint -Organizing Secretary
Department of Mathematics, University of Rajasthan, Jaipur-302004
Mobile: 09414344649, Email: pvyasmaths@yahoo.com

Dr. Mamta Goyal
Joint- Organizing Secretary
Department of Mathematics, University of Rajasthan, Jaipur-302004
Mobile: 09460150236, Email: mamtagoyal11245@gmail.com



REGISTRATION FORM

NSRDPAM & PDVML- 2015

September 12-13, 2015

Name _____ Designation _____

Institution _____

Mailing Address _____

E-mail _____ Mobile _____

I intend to attend **National Seminar on Recent Developments in Pure and Applied Mathematics and 19th Prof. P.D. Verma Memorial Lecture (NSRDPAM & PDVML-2015)**

Presenting a Paper: Yes/No

If yes, title of the paper _____

Abstract of the paper enclosed: Yes/No

Delivering an invited talk: Yes/No

If yes, title of the talk _____

No. of accompanying persons _____

Date and time of arrival _____

Registration Fee (including accompanying person, if any) paid by Cash Rs. _____

or through DD No. _____ Dated _____ Amounting

Rs. _____ Bank _____ payable at Jaipur.

Signature