

National Seminar on
“Current Trends in Mathematics with Special Focus on
Operations Research and Computers”
28-29 March, 2010

Organized by

Department of Mathematics & Statistics
Dr. Ram Manohar Lohia Avadh University
Faizabad – 224001 (U.P.)
INDIA



Sponsored by

Department of Higher Education, Govt. of Uttar Pradesh, India

Preamble and Objective: Current trends in mathematics have drawn a great deal of attention of researches engaged in this field over the years. In many of situations, these are assumed to interface to yield a powerful logistics for obtaining the solutions. Now is bygone era when problems were dwelt upon analytically without assessing and evaluating the performance measures of the systems related to applied sciences including the operations research and computers. During the pre computer era, significant amount of energy was expended on the solution technique itself rather than on problem definition, interpretation and application. Later, as a result of use of computers and its fire-power of numerical computing, more time is given for the use of our skills.

The objective of the seminar is to address the mathematical inquiries and inquisitiveness arousing in the mind of researchers, teachers, policy makers and practitioners too. The gathering of the participants will facilitate the pollination of various current trends in mathematics. It will further the conducting deep inquiry and investigation for fostering the interactive researches by deliberating various frontiers of the mathematics having privilege to proceed on to this science-venture with due evaluation of liabilities and assets; liabilities in terms of theory and assets in the form of practice of the knowledge.

Deliberations and Presentations: There will be two parts of the communication on the knowledge-domain.

- (i) Technical Lectures by the key speakers/invited speakers.
- (ii) Research Papers Presentations / Panel Discussions on the theme.

The seminar will cover:

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|--------------------------------|--|--------------------------|
| 1. Operations Research | 2. Differential Geometry | 3. Mathematical Modeling |
| 4. Special Functions | 5. Numerical and Statistical Computing | 6. Statistics |
| 7. Other fields of Mathematics | | |

Mode of presentation will be the power point presentation through LCD and overhead projectors and medium of the presentation will be English.

Venue: *Department of Mathematics and Statistics, Dr Ram Manohar Lohia Avadh University, Faizabad, UP, India.*

About University: On the holy birth place of Lord Shri Rama, Avadh University at Faizabad as an affiliating University was established by U.P. Government through Gazette Notification No. 1192/15-10-46(6)/75 on March 4, 1975 under State University Act 1973. This University is also situated in a socially and economically challenged area which is also a work-place of staunch socialist leaders Acharya Narendra Dev and Dr. Ram Manohar Lohia. Later on, in 1994 University was appropriately renamed in order to honour Dr Ram Manohar Lohia who championed the cause of down trodden and also waged relentless struggle against inequity and injustice predominantly rooted in the society at that time.

University got a major thrust in its stature when it attained residential-cum-affiliating university status through U.P. Govt. Order No. 7246/(1) 15-83-45/9/83 issued in April 1984 for starting five residential Post Graduate departments, namely; Department of Physics & Electronics, Mathematics & Statistics, Economics & Rural Development, History Culture & Archaeology and Adult, Continuing & Extension Education.

In 1993, University got recognition under 12B scheme from University Grant Commission. This identification added four new departments, namely the Department of Microbiology, Biochemistry, Business Management & Entrepreneurship and Environmental Sciences in two phases. The University also has an Institute of Engineering and Technology on the premises, established in 2000-2001, which offers M.C.A. and B.Tech. in promising branches of engineering and technology.

From the session 2000-01, several self-financed post and under graduate courses have been introduced to improve the quality of learning which are M.C.J., M.S.W., M.Lib. B.Lib. and also in session 2005-06, seven new professional courses have been started. These are M.Sc. in Biotechnology. M.T.A., B.C.A., B.B.A., B.P.Ed., M.P.Ed. and M.Ed.

About Department: The department of mathematics and statistics as a residential entity was founded in 1985 by the notification UP Government and intended originally for post-graduate and research studies only. The department is housed in separate building and located on a seven thousand sq feet site in a residential stretch of the University Campus.

The department of mathematics and statistics offers knowledge-base- education to students by seeking to develop mathematical prowess with problem-solving skills within a domain of mathematical spectrum in order to prepare the persons of the community to take the leadership roles in the area of knowledge building and development. Nowadays, the department is spearheading to take up the contemporary issues including inter, group and even trans-disciplinary subjects of teaching, learning and research to cope up with interfacing thrust areas of mathematical sciences at turning crossing paths of knowledge frontiers. The Department of mathematics and Statistics offers programs leading to the M.Sc. degree in Mathematics (Statistics) and Ph.D. in interdisciplinary areas of mathematical sciences.

Faculty members are internationally traveled and esoteric exposure to their respective frontier spectrum of knowledge and produced around more than 50 Ph.Ds and have written around 200 research papers including 50 international foreign journals of repute with high impact factors. Yet, department has produced 15 JRF/NET/GATE and most of the students have settled in their respective areas of interest taking the roll-model responsibilities at national and international levels.

Outside the classroom, department combines scholarly research and talks to scientific fraternity and audiences at national and international levels including USA, China, Germany, Switzerland, Greek, Chikoslovia, Ethiopia, Hungary, Italy and Romania etc. The department has won the significant number of fellowships, grants and projects from national and international bodies.

The department has approximately 100 post graduate and research students per academic year attaining the most plausible ratio between taught and teacher as 15:1. The department has separate chambers and computer facilities

for its faculty members. Whole department is connected with broadband internet facility including computing and statistical lab for its students and researchers having personal subscriptions of Science Direct, Scopus contingent on reviewer-facilities offered by faculty members to such as American Mathematical Society, Elsevier and Inderscience etc. Computing lab is well equipped with software computing facilities and computing with C++ language. Development of individual library and high-tech seminar hall is in pipeline. Professor Satish Kumar Tripathi, Provost and Chief Academic Officer, B U University, Newyork (USA) and Professor Kamal Nayan Agrawal, Howard University (USA) consented to visit the department and delivered their key-note lectures as resource persons in the international workshops at the department during current academic year 2009-10. These thematic areas include “Application of Statistical Techniques in Computers and their Scope of Application” and Application of Decision and Information Sciences in Mathematics.

Faculty Members with their qualifications and areas of interest include as:

- Dr. Lal Sahab Singh (Former Head) M.Sc., Ph.D., (Special Functions, O R and Modeling)
- Dr. C.K. Mishra (Head) M.Sc., Ph.D. (Diff. Geometry, Finsler Geometry and Application to Mathematical Physics and Biology)
- Dr. S.K. Raizada, M.Sc., Ph.D., (Special Functions)
- Dr. S.S. Mishra, M.Sc., Ph.D., D.Sc. (O R, Num-Computing and Bio-informatics)
- Dr. Subhash Kumar Yadav, M.Sc., Ph.D., (Sampling and Nonlinear Modeling)

Office Staff:

- Sri Anil Kumar Sharma (M.Sc. and P.G.D.C.A.) Data Entry Operator
- Sri Ravi Pratap Singh, Clerk
- Sri Chndrabali Singh, Lab Assistant

Call for Papers: Research papers claiming innovative reports and findings on the current trends of mathematics are invited for the seminar latest by March 25, 2010. Authors are requested to send abstracts of their papers in MS word with title and name of authors at the following

Emails: nsrml2010@gmail.com, sant_x2003@yahoo.co.in

IMPORTANT DATES: These include as

ABSTRACT DEADLINE: March 25, 2010

ACCEPTANCE OF ABSTRACT: March 26, 2010

FULL LENGTH PAPER: March 27, 2010

Seminar Proceedings: All papers reporting novel results in various fields of mathematics will be published after found suitable upon refereeing.

Registration Fee:

- Delegates from Universities/Institutes/ Research Centers: **Rs 300.00**
- Accompanying Person: **Rs 150.00**
- Research Scholar/ Student: **Rs. 100.00**

Accommodation and Transport: Free boarding and lodging will be provided to all registered participants.

Travel Support: TA will be paid as per government rule to key note/invited speakers and delegate who will present their research papers.

Host City: The city of Faizabad as a Chunk of territories ‘Garden of India’ – Avadh is very close to holy birth place of Lord Shri Rama, Ayodhya and many more historical places, situated at a distance of about 130 K.M. from the U.P. capital Lucknow, It is well connected by Road and Railway. The temperature will be very pleasant around 25-28°C. The organizers are positive that the delegates will enjoy a blend of academic pursuits, holy thoughts and natural beauty of the surrounding places. An excursion will be arranged for a trip to Ayodhya after the seminar.

Organizing Committee:

Patron: Prof. Arun Kumar Mittal (Vice-Chancellor)
Co-Patrons: Dr. K.N. Pandey, Registrar and Sri Ajeet Kumar Srivastava, Finance Officer
Chairman: Dr. Lal Sahab Singh, (Former Head, Dept. of Maths & Stats.)
Co-Chairman: Dr. S.K. Raizada
Convener: Dr. C.K. Mishra (Head, Dept. of Maths & Stats.)
Organizing Secretary: Dr. S.S. Mishra
Academic Secretary: Dr. Subhash Kumar Yadav

Contacts:

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(March 28-29, 2010)**

Registration Form

(To be submitted latest by March 25, 2010)

Name: _____

Designation: _____

Address: _____

Tele. Number: _____

E-mail id: _____

Whether

i Delivering a invited lecture: Yes/No

ii Presenting a paper: Yes/No

iii Attending the Seminar: Yes/No

Whether Accommodation is required

i. Date of arrival : _____

ii Date of Departure: _____

iii Mode of travel : _____

Name of accompanying person (if any) : _____

Signature