

2-Day Workshop
on
“Geometrical Interpretation of Mathematical Concepts”
(August 28-29, 2018)



Department of Mathematics, University of Kashmir, Srinagar in collaboration with Kashmir Mathematical Society (KMS) and Dass Scientific Research Laboratory (DSRL), Private Ltd., Ahmedabad Gujarat, India is going to organize 2-Day workshop entitled **“Geometrical Interpretation of Mathematical Concepts”** specially to focus on a new system of mathematics teaching demonstration and developing research interests in the subject.

Theme of the Workshop

The idea behind the mathematics workshop is to inculcate a culture of speaking about mathematics in common parlance. India has enormous contribution towards the advancements of science, technology, engineering and mathematics. The innovative thought of promoting mathematics through multimedia will add another dimension to the advancement of modern civilization.

About the Workshop

Teaching mathematical concepts of advanced level to the students has remained a challenge for centuries. It has become more challenging in the twenty first century due to rapid advancement of technologies. With the rapid advancement of technologies, mathematics and related subjects are developing at an accelerated rate. Day by day new topics are being added and the old topics are getting substantial facelift. But the teaching methodology of these subjects remained stagnant for years. This is creating a huge gap between the required skill and the actual skill of students. Majority of the students are struggling to keep pace with the new developments of mathematics. Time

has come to introduce proper technology to teach, learn and understand advanced mathematical concepts. In this workshop an attempt will be made to explore different technologies available for solving mathematical problems and to understand advanced mathematical concepts required for higher studies.

The main objective of this workshop is to help participants to visualize mathematical concepts through animated and geometrical means. It will also enable the researcher to model and visualize important mathematical applications, so that they can correlate these into any other form and develop a quick understanding of a problem and instantly find a method for its solution logically. The workshop may help to analyze and visualize a problem without any complexity.

About the Department of Mathematics

The Department of Mathematics is one of the oldest departments of the University of Kashmir. It was established in the year 1958 under the headship of Prof. M. R. Puri, which was later upgraded to the P.G. Department of Mathematics and Statistics when the postgraduate classes leading to M. Sc. Degree in Statistics were started in 1988. Subsequently, the Department of Statistics was separated from the Department of Mathematics and was established as an independent department in the year 2004. Over the years, the department is actively engaged in both teaching and research activities and has grown as a good research centre, where research facilities are available in the areas of Functional Analysis, Complex Analysis, Graph Theory and Mathematical Biology. In 2007, the master's programme in Mathematics was extended to the

University satellite campus at Anantnag (South Campus). In addition, the Govt. Degree College, Baramulla is the only PG College running masters programme in mathematics.

Earlier the Department has conducted Summer Schools and Refreshers Courses for the benefit of teachers working in universities and undergraduate colleges. One of the remarkable workshop on 'Partial Differential Equations' was conducted in 1984 in collaboration with the DAE-TFIR, with a huge success.

In the recent past, the Department has organized many events including the following:

- *Teachers training camp for Regional Mathematical Olympiad, September 10-13, 2013*
- *3-Day Training programme on mathematical modeling in biological systems, April 2-4, 2015*
- *Advanced Instructional School on Naïve Set theory, April 13- May 2, 2015*
- *Research promotion workshop on "Introduction to Graph and Geometric Algorithms", May 18-20, 2015*
- *Instructional School for Teachers on Field Theory, May 2-14, 2016*
- *One-week workshop on Applications of Mathematics, October 5-11, 2016*
- *Recent Trends in Pure and Applied Mathematics, December 19, 2017.*

The Department has produced more than hundred students who have qualified JRF/NET/GATE/SLET and other competitive examination of national level. A good number of research scholars got awarded M. Phil/Ph.D. degrees under the guidance of Departmental faculty in the research fields, which include Functional Analysis, Complex Analysis, Graph Theory and Mathematical Biology. Presently about 15 scholars are working on various problems leading to Ph.D. programme.

About Kashmir Mathematical Society

The main motive behind the creation of the Kashmir Mathematical Society (KMS) was improving and upliftment of the mathematics and mathematical education of the valley. KMS since its inception has been working to bring Mathematics as a main component of the ethos of

the place. Unabated efforts are being put in place to benefit the budding youth studying in our schools and colleges. The society is committed to boost the subject commonly known as queen of all sciences in the larger interest of the society by motivating young minds to take mathematics as their career option.

The society stands registered with "The Math Consortium" affiliated to American Mathematical Society. The Mathematics Consortium is a group of Mathematical Societies and Institutions in India and SAARC Countries.

Presently the head office of the KMS is at the Department of Mathematics, University of Kashmir, Hazratbal Srinagar with more than 50 active members. The present executive body is composed of the following:

- *Prof. M. H. Gulzar (KU), Chairman KMS*
- *Prof. W. M. Shah(CUK). Vice Chairman KMS*
- *Prof. B. A. Zargar (KU), Secretary KMS*
- *Dr. M.A. Khanday (KU), Treasurer KMS*
- *Dr. Aijaz Ahmad Bhat (ICSC), Exe. Member*

The society has organized many programmes on the National Day of Mathematics and in a very recent a national conference on "Recent Trends in Pure and Applied Mathematics" was held on December 19, 2017 in collaboration with the Department of Mathematics, University of Kashmir, Srinagar.

As an addition to the chain of events organized by the society, KMS in collaboration with the Department of Mathematics and Dass Scientific Research Laboratory-DSRL is organizing this event to keep our students abreast with the latest trends of this interesting subject.

Organizing Committee:

- Prof. M. H. Gulzar, KU Mathematics
- Prof. N. A. Rather, KU Mathematics
- Prof. S. Pirzada, KU Mathematics
- Prof. B. A. Zargar, KU Mathematics
- Dr. M. A. Khanday, KU Mathematics
- Dr. M. A. Mir, KU Mathematics
- Prof.(Er.) Chanchal Das, DSRL, Ahmedabad

About The Speaker: Prof. Er. Chanchal Dass

- A fellow of Institution of Engineers (Mechanical Engineering)
- Post Graduate Diploma in “Operations Research”
- Master of Business Administration in Financial Management
- Worked in a position of Development Strategy Executive in ONGC as Reservoir Engineer.
- Inventor of Multiple Zone Well Completion Technology and Electronic Contract Bridge Gaming App and New system for Mathematics Teaching and Demonstration.
- Life Member of Indian Mathematical Society, American Mathematical Society, Society of Petroleum Engineers (SPE), Society of Petroleum Geophysicists (SPG) and Fellow of the Institution of Engineers.
- Published and presented numerous papers and attended various National and International Conferences, forums and Seminars.
- Chairman, Dass Scientific Research Labs PL and Dass Oilfield Technologies PL
- Recipient of World Oil Award, SPE Regional Service Award, SPE President Award, ONGC Director/ Regional Director’s Award , IIGP finalist, NASSCOM, CII, PALF, GIS, ICEBE Best Paper Award, ICT Startup Award and many more.
- Countries visited: USA(2), France(2), Netherland, Belgium, Germany, Cairo, China (3), Luxembourg, Switzerland, Qatar, Dubai(3), Abu Dhabi, Sharjah, Malaysia (4), Thailand(2), Singapore, Georgia, UK, Azerbaijan, Bangladesh.
- Social Connections:
Facebook:
<https://www.facebook.com/chanchal.dass>
LinkedIn:
<https://www.linkedin.com/in/chanchal-dass-39723917/>

Workshop Schedule

Dates: 28th and 29th August 2018

Timings: From 10:30 AM to 4:30 PM followed tea break.

Participant’s Eligibility

- Academic Faculties (including permanent/ adhoc / visiting / contractual / tenure based) working in any colleges, universities, academic institutions, etc.
- Research Scholars pursuing research in Mathematics and Allied Subjects.
- Academic Faculties from all disciplines are eligible to join the programme.
- The number of participants is limited up to 30 and the selection shall be done on first come first serve basis.
- Participants need to bring laptop during Workshop days.

Registration Details

Registration fee for the conference is given as follows:

Rs 1000/= for Faculty Members

Rs 500/= for Research Scholars

You can send registration form with full details to the organizing Secretary by or before August 18, 2018 at the below address or through email at khanday@uok.edu.in

Organizing Secretary

Dr. Mukhtar Ahmad Khanday

Department of Mathematics

University of Kashmir, Srinagar-190006

Jammu and Kashmir.

Mobile No.: +91-7006427893

For updates kindly visit: maths.uok.edu.in

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Registration Form

Name:

Nationality:

University/Institution:

Department:

Position:

Address:

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Phone: (Office).....(Mobile).....

E-Mail:

Registration fee Détails :

Paid an amount of Rs..... (in words).....

Payment can also be done electronically:

Bank Name: Jammu and Kashmir Bank

Branch: Hazratbal, University Campus

Beneficiary Name: Kashmir Mathematical Society (KMS)

Account No.: 0007010100003053

IFSC: JAKA0NASEEM

Signature of the Applicant