Report on National Mathematics Day Celebration and Inaugural Ceremony of FDP

Dec 23, 2024

The Department of Mathematics at Jaypee University of Information Technology, Waknaghat, Solan, H.P. organized a vibrant celebration of National Mathematics Day on December 22, 2024. This event marked the birth anniversary of the renowned Indian mathematician Srinivasa Ramanujan and was coupled with the inauguration of a week-long online Faculty Development Program (FDP) on **"Data Science in Financial Statistics & Predictive Analysis with R".** Distinguished guests, faculty members, research scholars, and students actively participated in the event, making it a resounding success. Around 70 participants from various universities and institutes attended the event.

The program commenced with the Saraswati Vandana and welcome speech by the coordinator Dr. Pradeep Kumar Pandey. Prof. Rakesh K. Bajaj, HOD, provided an overview of the FDP and the department of mathematics. The Vice-chancellor Prof. R.K. Sharma highlighted the significance of National Mathematics Day and its relevance to fostering interest and innovation in the field of mathematics.

Prof. C. K. Jaggi, the chief guest of the program delivered the inaugural lecture on **"Enhancing Humanitarian Response with an Advanced Inventory Relief Chain Model".** In his inspiring address, he presented the innovative Inventory Relief Chain (IRC) model for optimizing inventory and distribution in relief operations. Finally, Dr. Saurabh Srivastava, the coordinator of the Faculty Development Program, proposed the vote of thanks, expressing heartfelt gratitude to all participants, organizers, and dignitaries for their valuable contributions to the success of the event.

Brief Bio-data of Prof. C. K. Jaggi

Chandra Kant Jaggi, Senior Professor & former Head, Department of Operational Research, University of Delhi, Delhi, India.

He is a Fellow Member of the Operational Research Society of India and the International Science Community Association.

He is **Senior Associate Editor of OPSEARCH** and **Associate Editor of International Journal of System Assurance Engineering and Management, Springer, Editor of International Journal of Mathematical, Engineering and Management Sciences** and **Editorial Board of the IJSS: Operations; Logistics, International Journal of Services Operations and Informatics, Inderscience Publishers Ltd. Switzerland, American Journal of Operational Research, International Journal of Enterprise Computing and Business Systems,** and **Research Journal of Mathematical and Statistical Sciences.**

His research interest lies in the field of Supply Chain and Inventory Management. He has enriched his research experience with more than 160 publications in journals of high repute. He has supervised 25 Ph.D. and 26 M.Phil. His papers have Google Scholar citations as 2660 (4929) with h-index of 27(33); i10-index of 57(77).

He was awarded "**The Distinguished Educator Award by the Operational Research Society of India**" in 2023 and the **Distinguished Professor** status by the International Council of Social Reforms & Research on 14 April 2022. He is also the Recipient of **Shiksha Rattan Samman** by Rotary Clun of Delhi Uptown in September 2021, **Amity Academic Excellence Award** in February 2019 by Amity University, Noida, and **Life Time Achievement Award** by International Organization of Scientific Research and Development, Visakhapatnam, July 2018. He was honoured with the **International Best Researcher Award 2017** by the International Science Community Association at the 7th International Science Congress in Bhutan. **Certificate of Excellence** "**BHARAT VIKAS AWARD**"; was awarded for; Loyalty, Diligence; Outstanding Performance in the field of OPERATIONAL RESEARCH; by the Institute of Self Reliance, Bhubaneswar, in 2017. He received the "Best Teacher Award" from the Grace India Educational Charitable Trust, New Delhi, for his outstanding academic contribution in 2017. He was awarded the "**IEOM Outstanding Service Award**"; by IEOM Society, USA, in 2016, "In Recognition and Appreciation of Outstanding Support, Service, Contributions, and Global Community Engagement in Industrial Engineering and Operations Management Profession."; **Certificate for his Exceptional Contributions in Inventory Management** by Lingaya's University, Faridabad, in 2010 and received **Shiksha Rattan Puraskar**

(for Meritorious Services, Outstanding Performance and Remarkable Role) by India International Friendship Society in 2007.

He is a life member of learned societies, viz. **Operational Research Society of India, Indian Science Congress Association, Industrial Engineering and Operations Management (IEOM), USA; Computer Society of India, International Science Community Association, India; Society for Reliability Engineering, Quality and Operations Management, India; Indian Society for Probability and Statistics, India; Association of Inventory Academicians and Practitioners, India**. He has been a member of various committees of UGC, CSIR, the University of Delhi, the Governing Bodies of the University of Delhi colleges, the Central University of Haryana, MDU Rohtak, Kurukshetra University, Banasthali Vidyapith, etc.

Abstract of the Inaugural Address

The success of humanitarian operations depends on efficient supply and relief chain management. This study presents the innovative Inventory Relief Chain (IRC) model, an integrated framework for optimizing inventory and distribution in relief operations. The IRC model considers dynamic demand and supply factors, such as population movements in relief camps, and considers the severity and risk of the disaster when analyzing transportation costs. By redefining conventional disaster response methods, the model minimizes total operating expenses such as transportation, inventory, and disposal of damaged products while ensuring effective delivery.

A numerical example illustrates the model's practicality and the sensitivity analysis confirms its robustness in different scenarios. The IRC model is a strategic tool for transforming and advancing humanitarian logistics through data-driven decision-making. This research advocates for cost-effective, impactful disaster relief efforts, offering a framework to enhance the efficiency and effectiveness of humanitarian operations.

Photographs of the event: