



POORNIMA UNIVERSITY

SCHOOL OF SCIENCE AND HUMANITIES

Department of Mathematics

Report on AMSAET (2018)

May 2, 2018

Three day International Symposium on "Advances in Mathematical Sciences and Applications in Engineering & Technology (AMSAET 2018)" in association with 17th annual conference of Indian Society of Information Theory and Applications was organized in the premises of Poornima University during April 27-29, 2018. The objective of the Conference was to provide an intellectual forum to exchange of knowledge and information in relation to latest developments in the field of mathematics. On the first day two session were conducted which includes Chief Guest Address, Three Key Note address, 2 Invited Talks, one paper presentation session of 05 papers, and a meeting of mathematical experts invited as panel discussion. On the second day, 4 sessions were conducted which includes 10 Invited talks and 2 paper presentation sessions, symposium on mathematical applications to Engineering and Technology, and a general body meeting of ISITA. The third day started with the invited talks and followed by paper reading sessions.

The conference was inaugurated with auspicious Ganesh vandana, lamp lighting and garlanding ceremony of Maa Saraswati. The inaugural function was attended by **Chief Guest Prof. (Dr.) V. P. Saxena, Ex. Vice Chancellor, Jiwaji University, Gwalior, Director, SIRTS, Bhopal, President, GAMS; Dr. K.K.S. Bhatia, President, Poornima University, Prof. (Dr.) S. K. Verma, Ex. Vice Chancellor, Ambuja University, Chattisgarh, Prof.(Dr.) R. P. Singh, President, ISITA, Rohtak, Prof.(Dr.) Gulshan Taneja, M. D. U. Rohtak.** The inaugural ceremony was preceded with the felicitation of honourable dignitaries.

Dr. Nupur Srivastava, Organizing Co - Chair AMSAET 2018, began the session delivering introductory speech about the symposium/ conference in which she told the importance of mathematic applications in multi-disciplinary fields with some relevant quotes. The **Hon'ble Chief Guest Prof. (Dr.) V. P. Saxena**, Ex. Vice Chancellor, Jiwaji University, Gwalior, considered as a doyen in his field of specialization in Mathematics, very nicely explained the fact that how each and every discipline is incomplete without mathematics and it is very easy to understand it without fear. **Prof. (Dr.) K. K. S. Bhatia**, President, Poornima University, (Presiding the Inaugural Function), explained the inspiring facts about the great mathematician Ramanujan and explain various aspects of mathematics, Guest of Honor **Prof. (Dr.) S. K. Verma**, discuss contribution of Prof. (Dr.) J. N. Kapoor in the field of mathematics, Guest of Honor **Prof (Dr.)**

R. P. Singh, President, ISITA, also mentioned the contribution of Dr. J. N. Kapoor and Dr. Bhoodev Sharma for mathematics in his address. **Dr. Gulshan Taneja**, General Secretary, ISITA, announced ISITA Award for excellence in research to **Dr. Rajeev Kumar** from M. D. University, Rohtak. The souvenir of the conference was also released in the inaugural function. Inaugural session was concluded by Dr. Narendra Kumar, Organizing Chair & Professor, Department of Mathematics, and Poornima University, who gave vote of thanks and expressed his gratitude to everyone for being part of this grand intellectual gathering.

The inaugural session was followed by the key note address of **Prof.(Dr.) V P Saxena** on 'Mathematical modeling of cancer cells in human body', **Prof.(Dr.) Manohar Lal Kaushik** presented the talk of **Prof.(Dr.) BhooDev Sharma** on 'Some facts about Information Theory' and **Dr. A. P. Garg** on 'Importance of Mathematics in Microbiology'. Invited Speakers **Dr. Shaifali Bhargava**, delivered talk on 'Reliability Theory and its applications in Computer Sciences'. Invited talks were followed by paper presentation session and around 5 papers were present on the first day.

Second day of the symposium/ conference opened with one of the best Invited talk series by **Dr. S. N. Joshi**, Emeritus Professor, CEERI, Pilani on microwave, digital India, and applications of mathematics in engineering and technology, followed by a talk by **Prof.(Dr.) Manohar Lal Kaushik** on "five assumptions by Euclid in mathematics to 5G mobile technology" and a talk by **Prof.(Dr.) S. K. Verma** on " History of Indian Mathematics", Post lunch session started with talks by **Dr. Anil Taneja**, **Dr. Gulshan Taneja**, **Dr, Anil Bhardwaz** and **Dr. Shalini Jain**, on various applications of mathematics related problems and applications of Reliability Theory and followed by paper presentation session of 25 papers. Day two, closed with meeting of executive council of ISITA.

The third and the concluding day of the international symposium/conference started with the the talk of **Prof. (Dr.) Jagdish Prasad Singh**, **Amity University, Jaipur**, **Dr. Sudhanshu Agrawal** Assistant Director, Indian National Science Academy, Delhi, and **Prof. (Dr.) D. S. Hooda**, Ex PVC, GJU, Hissar, in various disciplines of mathematics and ended with presentation of 20 research papers. Dr. D. K. Sharma, Dr. T. P. Singh(Chief Editor, Arya Bhatta Journal for Mathematics and Information Science), Dr. O. P. Vinocha, also chaired the session along with all invited talk persons. The discussions in the symposium mainly focused the applications of Mathematics in Engineering and Technology, mathematical modeling of the problems which the people of the country are facing the conference concluded with the simple function. The chief guest of this function was **Prof. (Dr.) D. S. Hooda**, Ex. PVC, GJU, Hissar. Report of the three days international conference was presented by **Dr. Ravika Vijay**, Professor, Department of Physics, Poornima University, Jaipur. Valedictory session ended with the vote of thanks by **Dr. Narendra Kumar**, Organizing Chair of the

conference.







