

Committee

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Chancellor, Manipal University

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Dr G. K. Prabhu, Registrar, Manipal University

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Director, Manipal Institute of Technology, Manipal University
Dr B. Raghuvir Pai, Directorate Research (Tech.), Manipal University
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Dr D. Srikanth Rao, Joint Director, MIT
Dr Sesappa A. Rai, HOD of Mathematics, MIT
Dr Renuka A., HOD of Computer Science & Engg., MIT

Organizing Committee

Dr Kuncham Syam Prasad (Convener), Dept. of Mathematics, MIT
Dr Geetha M (Dy. Director SW-MU), Professor, Dept. of CSE, MIT
Dr Kedukodi Babushri Srinivas (Co-Convener), Dept. of Mathematics, MIT
Mr Srikanth Prabhu (Co-Convener), Dept. of CSE, MIT
Mr Harikrishnan PK, Dept. of Mathematics, MIT

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Mrs Smitha Pai, Dept. of CSE, MIT
Mrs Prathima J, Dept. of Mathematics, MIT
Mrs Manjula Shenoy, Dept. of CSE, MIT
Mr Mohandas, Dept. of Mathematics, MIT
Mr Dasharathraj K Shetty, Dept. of CSE, MIT
Mr Mohana K S, Dept. of Mathematics, MIT
Mr Goverdhan Hegde K, Dept. of CSE, MIT

Invited Speakers

Keynote Speakers

Dr B. Yegnanarayana
Professor and Microsoft Chair, IIIT Hyderabad
(Formerly, Professor IIT Madras)

Dr Vinay Kumar
Manipal Dot Net, Manipal
(Ph.D. Massachusetts Institute of Technology, USA)

Resource Persons

Dr Sudhir Ghorpade
Department of Mathematics, IIT Bombay.
(Ph.D. Purdue University, USA)

Dr Dukkupati Ambedkar
Dept. Comp. Sci. & Automation, I.I.Sc. Bangalore.
(Ph.D. I.I.Sc. Bangalore)

Dr Santhi Thilagam P.
Department of Computer Science and Engineering, NITK, Surathkal
(Ph.D. NITK, Surathkal)

Dr Prashant Bhat
Manipal Dot Net, Manipal
(Ph.D. University of Southern California, Los Angeles, USA)

Dr Bhavanari Satyanarayana
Dept. of Mathematics, Acharya Nagarjuna University
(FAPAS, Fellow ABI (USA), A.P. Scientist Awardee (by DST))

Dr B. R. Shankar
Dept. of Math. & Computer Applications, NITK, Surathkal
(Ph.D. I.I.Sc. Bangalore)

Dr R. B. V. Subramanyam
Department of Computer Science, NIT Warangal.
(Ph.D. IIT Kgp.)

Dr Sunil Jacob John
Department of Mathematics, NIT Calicut.
(Ph.D. CUSAT)

Dr K. T. Arasu
Dept. of Mathematics and Statistics, Wright State University, USA
(Ph.D. Ohio State University, USA)

Special Invitee

Dr P. V. Arunachalam
(F.N.A.Sc., Former President Indian Mathematical Society, and
Former Sectional President Mathematics, Indian Science Congress)

मानवतां ब्रह्म



INSPIRED BY LIFE



MANIPAL INSTITUTE OF TECHNOLOGY
MANIPAL

(A constituent Institute of MANIPAL UNIVERSITY, Manipal)

NBHM-DST-DRDO-CSIR

Sponsored

National Workshop

**Computer Applications
based on
Modern Algebra**

03-05 January, 2013

Organized by

Department of Mathematics

and

Department of Computer Science & Engineering



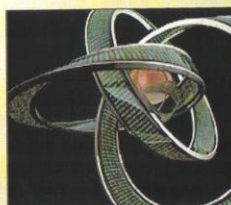
MANIPAL
UNIVERSITY

Manipal 576104, Karnataka State, India

Website: www.manipal.edu

Theme of the Workshop

Algebra is often described as the language of mathematics and computer science. Historically, the terms algebra and algorithm originate from the same source. Algebra is so beautiful that many people naturally possess the ability to understand and apply algebra in real life problems. The aim of the workshop is to highlight the concepts from modern algebra and demonstrate their applications in computer science. Indeed, it is encouraging to note that computer algebra has evolved as a discipline linking advanced algebra to methods of computer science and thus offering many tools. The workshop will focus on algorithms and algebraic computations, finite fields and their applications, algebraic codes, data mining, soft computing techniques, algebraic cryptography, and recent developments in these areas. The workshop will provide an ideal platform for the faculty, researchers, and the students in various disciplines of science and engineering to reinforce their knowledge. The participants of this workshop will also be benefited from recent trends of modern algebra and its applications.

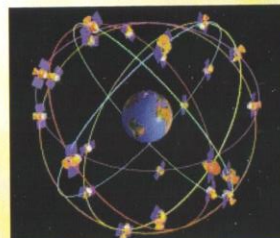


About the Institute

Founded in 1957, by Late Dr.T.M.A.Pai, the Manipal Institute of Technology (MIT) is reckoned for its academic excellence in engineering sciences, for shaping world class engineers and as a center for research and specialized studies in engineering sciences. It is a constituent institution of Manipal University. MIT offers several UG &PG courses, research programs in all science and engineering disciplines.

The Department of Mathematics at Manipal Institute of Technology [MIT] was initiated in 1957 with strength of three faculty members. Currently there are 38 faculties in the department. The research areas include Numerical Methods, Graph Theory, Fluid Dynamics, Algebra, Topology, Number Theory, Functional Analysis, Fuzzy logic, Complex Analysis, Operations Research, etc. Faculties in the department teach

M.Sc. Mathematics, Engineering Mathematics for both under graduate and post graduate courses. Over the years, the department has contributed tremendously in imparting a strong Mathematical foundation to students, a basic necessity for producing the best engineers who are now excelling in their professions not only in India but all over the world. The department has also contributed in helping professionals in various inter disciplinary research areas.



The Department of Computer Science & Engineering (CSE) was started as an independent department in 1988, though a B. Tech. degree programme in CSE was started in 1985, as part of the Department of Electronics and Communications, with affiliation to the Mangalore University. Over the years the department has developed to become a center of excellence providing in-depth technical knowledge and opportunities for innovation and research with well-equipped computer facilities and dedicated faculty. The department has tie-up with Infosys, TCS, EMC Corporation and Cisco. The department offers two M.Tech. programs, one in Computer Science & Engineering, and the other in Computer Science & Information Security. The department is offering Ph.D. programmes in all disciplines of Computer Science.

Registration Details

Category	Fees (in Rupees)
Faculty / Industry / Researcher	1800
UG/PG Student without grant	500

- All participants have to register online using the workshop website: <http://conference.manipal.edu/algebra2013>
- All correspondence has to be done with the following address.
Dr Kuncham Syam Prasad (Convener)
Associate Professor
Department of Mathematics, Manipal Institute of Technology
Manipal University, Manipal 576 104, Karnataka, India.
Email: algebra2013@manipal.edu
kunchamsyamprasad@gmail.com
Contact Numbers: 09343858266, 09740557439
- Accommodation on prior request will be provided for outstation participants at nominal rates (spot payment of around 100 rupees per day).
- Outstation Participants:** The participants who have received confirmation of their selection are requested to send the applicable registration fees in the form of a Demand Draft (DD) drawn in favor of "MIT Manipal" payable at Manipal / Udupi mentioning the registration ID to the Convener address.
- Participants from MIT:** The participants who have received confirmation of their selection are requested to send a copy of sponsorship letter from the Director, MIT mentioning the registration ID to the Convener OR pay the registration fees by cash to MIT Office OR send a cheque in favor of "MIT Manipal" payable at Manipal to the Convener.
- Student participants of Manipal University:** Fill the application form online and get a registration ID. Then meet one of the organizers to take an initial before payment at MIT Office.
- Getting to Manipal:** Visit Workshop website for details.