

Department of Mathematics, Assam University:: Silchar takes immense pleasure in inviting you to register, contribute papers and participate in the National Conference on **Recent Advances in Mathematical Sciences and their Applications (RAMSA-10)**. Among the different branches of science and technology, Mathematics familiar as a basic science, has played a key role in the development of a number of important disciplines like Physics, Chemistry, Engineering and Technology etc. Advancements in all these increasing disciplines, are related to the gradual and rapid nourishment in Mathematical Research. Twenty first century is the century of Technology. Tremendous developments in the field of Engineering and Technology have taken place during this period, in covering a variety of dimensions. Technical approach is being applied in almost all the branches of science and as such, trends in mathematical research have changed from time to time. The conference aims at providing a common platform for academicians, researchers and students working on Mathematical Sciences and other allied disciplines, to develop, contribute, interact and present papers.

#### ASSAM UNIVERSITY

Assam University that came into existence by an Act ( No. XIII of 1989 ) of the Parliament, was established in 1994. Since its inception, this Central University has made impressive strides, in establishing itself as a premier institution of learning in North-East India. Recently, Assam University is accredited by NAAC with B Grade along with a CGPA of 2.85 in 4-point scale.

The permanent campus, situated at Dargakona, about 20 km away from Silchar city, is surrounded by lush green hillocks, natural lakes and picturesque tea gardens of South Assam, along with the mystique Bhutan and Barail ranges of hills at the backdrop. The sprawling university campus that is spread over an area of nearly 600 acres, provides an ideal atmosphere for academic pursuits of 33 Post Graduate Departments, under nine Schools of Studies of the University function. The current roll strength is around 3000, which includes students in Post Graduate and Integrated Courses and, scholars and researchers at M. Phil. and Ph. D. level. Drawing its 330 plus faculty from diverse disciplines, from all over the country, the University sustains a multidisciplinary approach to higher education in this remote end.

#### DEPARTMENT OF MATHEMATICS

The Department started functioning in July 1994, with offering Post Graduate course leading to M. Sc. Degree in Mathematics. It also offers M. Phil. and Ph. D. Programs. The Department has set up a very good NBHM library with the yearly book grant, received from DAE (GOI) and a Computer Laboratory with the UG C Special Grant for infrastructural development. At present, the Faculty strength of the Department is ten and all of them are actively associated with high quality research on different fields, in addition to regular teaching assignments. Till date, a total of fourteen batches of M. Sc. Students have passed out from the Department and many of them have cleared NET, JRF, GATE, GRE, M. Phil., Ph. D. etc. They are now well-placed in IIT, Central & State Universities, MNC, Degree Colleges, Banks, Postal Services, LIC, Government Services, Research Institutions, other Public Undertakings etc.

#### ABOUT SILCHAR

Silchar, the district head quarter of Cachar District and the nerve centre of Barak Valley, is situated at Southern part of the state of Assam in North-East India. The river Barak flows through the town with natural green valley and blue hills, adjoined by Meghalaya in north, Mizoram in south, Tripura in west and Manipur in east. It is famous for natural beauty and tea gardens. Academic institutes like

National Institute of Technology-Silchar, Silchar Medical College and Hospital, are located in the vicinity of Silchar town. The places of visit may include Tea Estates, Kachari Monarchy and others.

#### CLIMATE:

The weather during October remains pleasant with day temperature of 25 -30° C  
**OBJECTIVE OF RAMSA - 10**

The primary objective is to provide a national forum for meaningful interactions not only among academicians but also researchers from other Government organizations and industry. Further, an assessment of the present status of mathematical research in national level with reference to international context; in providing a common platform for the mathematicians of the country for exchange of views and ideas; in searching out the possibilities of mathematical science based interdisciplinary researches in the region keeping in view of the developmental and management problems and, popularization of Mathematics and Mathematical Researches, are identified as the other objectives of the proposed conference.

#### CALL FOR PAPERS

Authors are invited to submit papers that presents original and unpublished research in the following slot areas that includes and are not limited to:

##### Slot One: Pure Mathematics & Recent Advances

- . Algebra
- . Functional Analysis
- . Topology
- . Cryptography
- . Fuzzy Mathematics
- . Other Related Topics

##### Slot Two: Applied Mathematics & Recent Advances

- . Computational Fluid Dynamics
- . Solid & Fluid Mechanics
- . Operations Research
- . Biomechanics
- . Other Related Topics

##### Slot Three: Mathematical Sciences & Applications

- ◆ Applications to Biological, Chemical & Medical Sciences
- ◆ Applications to Physical, Environmental & Engineering Sciences.
- ◆ Mathematics, Statistics & Information Technology
- ◆ Mathematical Modeling & Computer Simulation
- ◆ Present Challenges in Mathematical Sciences
- ◆ Other Related Areas of Thematic Interest

#### GUIDELINES TO AUTHORS

Researchers should submit their paper within 6-8 pages, in pdf, Microsoft, acrobat or LNCS Format. The first page should include the paper title, researcher's name, affiliation, postal address, phone number(s) and e-mail. All the papers will be peer reviewed before notification of acceptance. Efforts will be made to publish the accepted papers in the conference proceedings.

Papers may be sent as MS Word document via e-mail directly to karabidc@gmail.com, uday\_06@yahoo.co.in, sumitsaha\_math@yahoo.co.in, ramsa.silchar@gmail.com

#### PRESENTATION

For Oral presentation, Microsoft Power-Point Slides are preferable. The OHP facility may be used. For Poster presentation, 1m (height) x 1m (width) space will be provided for every poster.

#### SOUVENIR

A souvenir comprising of Abstracts of presentations and other relevant information,

#### COMMITTEES : RAMSA - 10 (AUS)

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