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**Government of India**

**NATIONAL BOARD FOR HIGHER MATHEMATICS**

**(Department of Atomic Energy)**

**OYC Building, C.S.M. Marg, Mumbai 400 001**

**APPLICATION FORM FOR THE GRANT OF FINANCIAL ASSISTANCE FOR**

**ORGANIZING SYMPOSIUM/SEMINAR/WORKSHOP/CONFERENCE ETC.**

{ Eight (8) copies of this form, duly filled should reach this office at least

Three Months before the start of the Conference. }

1. Title of the Programme : **MIT 2013 ( Mathematics and IT, 2013.**

2. Name of the Convener/

Organizing Secretary

along with a brief C.V.:

**Prof. Manisha Kulkarni**

**CV is attached**.

3. Full postal address of the

Convener/Organizing Secretary:

**Prof. Manisha V. Kulkarni,**

**Assistant Professor,**

**International Institute of Information Technology, Bangalore,**

**26/C, Electronics City,**

**Opposite Infosys,**

**Hosur Road, Bangalore, 560100**

4. Organizing Committee:

**(i) Prof. S. Sadagopan**

**(ii) Prof. Srinivasa Prasanna**

**(iii) Prof. G. Srinivasaraghavan**

**(iv) Prof. Manisha V. Kulkarni**

5. Name of the Institution/

Scientific Society/

Specialist Association

Organizing the Meeting:

**International Institute of information Technology, Bangalore. (IIITB)**

6. Proposed dates for the Programme:

**June 5th to June 7th 2013**.

7. Venue of the Programme:

**IIIT, Bangalore**

8. (a) Topics to be covered:

1. **Finite Mathematics, Combinatorics**
2. **Abstract Algebra and Applications**
3. **Number Theory and Applications including cryptography.**
4. **Elliptic Functions and applications in cryptography.**
5. **Graph Theory and Network Problems**
6. **Algebraic Topology and computational applications.**
7. **Topics from work of Prof KV and Ramanujam**

(b) Relevance & importance of the Topic Mathematically/

in the context of National needs/ other reasons:

**Advanced Algorithms and Optimization are essential for the Indian Software/IT industry as it starts its journey from standard outsourcing, towards value added solutions. Algorithms optimizing time/energy/memory resources/, parallelizable algorithms, high accuracy algorithms, etc are all required for developing world-class high quality software systems, in a variety of domains.  
  
Advances in mathematics are foundational for much of this work. For example, convex analysis is the basis for state-of-art interior point methods. Algebraic geometry techniques are being considered for non-convex polynomially constrained optimizations.  
  
This portion of the conference will attempt to bring mathematicians and computer scientists/IT professionals interested in these fields together. There will be presentations on both the foundational mathematics, as well as applications to IT.**

(c) Names of Resource persons/

invited Speakers who have

tentatively agreed:

**Prof. R. Balasubramanian (Director, IMSc, Chennai)**

**Prof. Bruce Berndt ( University of Illinois, Urbana Champaigne, USA)**

**Prof. V. Balaji (CMI, Chennai)**

**Prof. S.D. Adhikari (Dean, HRI, Allahabad)**

**Prof. B. Ramki (HRI, Allahabad)**

**Prof. Kalyan Chakraborty (HRI, Allahabad)**

**Prof. Adit Gupta (Founder, Function Space)**

(d) Whether proceeding are

intended to be published: YES / NO

**Yes.**

9. (a) How many Delegates are

expected to participate?

Indicate the number of

National and Foreign Foreign:

Delegates separately:

**National : 30, International : 2**

(b) How many of the National:

Delegates are expected

to read Papers? Foreign:

**Nobody.**

(c) For how many delegates National:

TA/DA is offered and

at what rate? Foreign:

**For 30 participants TA/DA will be offered**. 2000 × 30 = 60,000/-

10. Details of the total

expenditure anticipated:

(along with item wise break-up)

**Local Hospitality**:

**Catering** for 3 days, 40 people @ Rs 800/day                                    Rs 32,000/- x 3= Rs 96,000

**(a)  Subtotal Rs 96,000/-**

**Local Transportation**    (2 Vans @ Rs 2500/day)                                  Rs 5000 x 4 = Rs 20,000

**Travel Support (domestic)** 3 air tickets for Keynote speakers                         Rs 15,000 x 3 = Rs 45,000

**(b)  Subtotal = Rs 65,000/-**

**General Expenses**:

TA/DA for participants :                  Rs.2000/- x 30=60,000

 Pre-conference printing (Announcements, abstracts, etc):                       Rs. 10,000/- x 1 = 10,000

 Publication of proceedings        -                                                           Rs. 60,000/- x 1 = 60,000

 Stationery including educational material                                                Rs.  25000/- x 1= 25,000

**(c ) Subtotal = 1,55000/-**

**Total = (a) + (b) + (c) = 3,16000/-**

11. Details of Grants requested

received from other Agencies:

**None**

12. Details of the Support

expected from NBHM :

(along with the break-up)

**Full support is expected.**

13. Name of the Authority

who will be responsible

for submitting the Audited

Statement of Accounts/

Utilization Certificate

and other Reports:

**Mr. N. Ramachandra,**

**Registrar, IIIT, Bangalore**.

14. Name, designation and

address of the Authority

in whose favour payment

of grant is desired:

**IIITB,**

**26/C, Electronics City,**

**Opposite Infosys,**

**Hosur Road,**

**Bangalore 560100**

15. Any other information:

Signature of the applicant

Place: Bangalore

Date: 8 April 2013

**NOTE**:-

1. The proposal should be accompanied by a Complete Bio-data and list of

Publications of the Convener/Organizing Secretary who has responsibility for the

Academic Programme of the Conference.

2. The meeting should be on a well-focussed theme or two.

3. The proposal should contain a list of speakers who have tentatively agreed to

deliver lectures

4. The emphasis while selecting participants should be on those who are likely to

benefit from this meeting.

5. A consolidated report giving details such as the list of speakers, the titles of the

talks, souvenirs/proceedings if any and the list of participants should be sent to the

Member Secretary, NBHM after the meeting is held along with the utilization

Certificate.