# UGC SPONSORED NATIONAL CONFERENCE
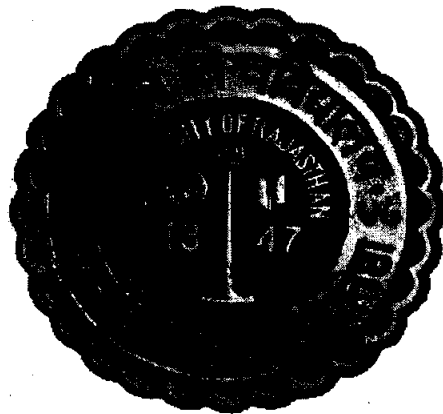
# ON

# EMERGING INTERFACES IN FLUID DYNAMICS AND OPTIMIZATION TECHNIQUES

## (NCEIFDOT-2017)

### March 25-26, 2017

*Organized by*
Department of Mathematics
University of Rajasthan
Jaipur-302004, INDIA

## ABOUT THE UNIVERSITY

In 1947, the University of Rajasthan was established as multi-faculty University. HE the President of India is the Visitor and HE the Governor of Rajasthan is the Chancellor of this University. The University offers several Certificate and Diploma Courses, UG, PG, M.Phil.and Ph.D. Programmes in various disciplines at 37 Departments, 22 Centres and 6 Constituent Colleges besides 750 Affiliated Colleges. The University is accredited A by NAAC (2016-2021). The University provides state-of- the art research facilities support through UGC- UPE, DST-FIST&PURSE, UGC-SAP Programmes, and research projects funded by UGC, CSIR, DST, DRDO, DBT, BRNS, other agencies and various international collaborations. The central University library and departmental libraries are treasure trove of books and manuscripts.

## ABOUT THE DEPARTMENT

The Department of Mathematics, University of Rajasthan was established in the year 1960, offers P.G., M.Phil. and Ph.D. Degree programmes. The Department is enriched with a very good NBHM library and well equipped Computer Laboratory set up under FIST program by DST. Recently, Department has been awarded DRS-II under SAP by the UGC for five years from 01.04.2015 to 31.03.2020. The Department has active research programmes in a number of different areas of Pure and Applied Mathematics.

## ABOUT JAIPUR CITY

Jaipur, the Pink City founded in 1727 by Astronomer King Maharaja Sawai Jai Singh-II (1693-1743) is the capital of Rajasthan. Jaipur, a Heritage City blessed with composite culture is known for its pink houses with latticed windows, historic monuments, jewellery and handicrafts. Jaipur is renowned on international tourism map as vertex of Golden Triangle of Indian tourism. It is well connected with the rest of country by rail, road and air. The sites worth visiting are Amer Fort, Jaigarh Fort, Nahargarh Fort, City Palace, Jantar Mantar, Hawa Mahal, Albert Hall Museum, Galtaji to name a few. The city normally experiences pleasant weather during the month of March.

## ABOUT THE CONFERENCE

Advent of digital devices and commercially available state of art softwares have enabled the researchers to peep into rather complex real world problems and to devise strategies for better understanding of the intricacies involved. This understanding serves both as designing tool and study tool. The same holds true for fluid dynamics and optimization problems where new insights about many real life situations have been garnered by experimenting with the real systems and /or simulating the models with the advanced solution strategies. The central stimuli of the conference is to provide a platform to the academicians, researchers, scientists and engineers blessed with different skills and knowledge to identify interfaces in fluid dynamics and optimization problems. Foremost consideration and importance are devoted to their advantageous integration and applications to industries. The conference will be scheduled in Key note lectures followed by special and contributed sessions. Topics of interest for submission of research papers/articles/notes are the following but not limited to:

Boundary Layer Theory
Bio-fluid Dynamics
Computational Fluid Dynamics
Differential Equations
Dynamical Systems, Chaos and Fractals
Fluid Mechanics
Fractional Calculus
Magnetohydrodynamics
Modeling and Simulation
Numerical Analysis
Operations Research
Perturbation Theory
Quantitative Methods and Statistical Modeling

- Flow and Heat Transfer in Porous Media
- Transport Phenomena
- Entropy
- Heat Transfer and Thermal Processes
- Advances in computational methods
- Applications in Industry
- Fluid Structure Interaction
- Hybrid Methods
- Process Simulations
- Environmental Modelling and Applications
- Computer Modelling
- Validation of Computer Modeling
- Graph Theory

## CALL FOR PAPERS

Original unpublished research papers are invited for oral/poster presentation in the Conference. Abstract (in MS Word only) should be neatly typed in font size 12, 1.5 spacing on A4 size paper restricted to a maximum 500 words. It must contain the title of the paper, name(s) of the author(s) with affiliation(s), name of presenting author must be underlined and email id(s).

## REGISTRATION FEE

For Teachers: Rs. 1500/-
For Students: Rs. 1000/-

Note:

(i) Registration Form and Fee are mandatory for all participants. Inclusion of Abstract of Paper in Abstract Booklet (soft copy) will only be considered thereafter.

(ii) Last date of submission of Registration Form with Registration Fee and Abstracts of Paper on email: nceifdot2017@gmail.com is 20.03.2017.

(iii) Paper presentation certificate will be issued only to the presenter.

(iv) Delegates registered upto 20.03.2017 will be provided accommodation (on demand, first-cum-first served basis), conference material (except accompanying person), breakfast, lunch and dinner.

(v) Delegates registered after 20.03.2017 or on the spot will be provided breakfast, lunch, dinner, conference material (subject to availability but not to accompanying person) and they have to make their own stay arrangements.

## PAYMENT PROCEDURE OF REGISTRATION FEE

Registration Fee can be paid in cash or through Demand Draft in favour of **CONVENER/ORGANISING SECRETARY NCEIFDOT 2017** payable at Jaipur or through online payment in ICICI Bank, University Campus, Bapu Nagar Jaipur-302004, SB A/C No. 674701701471, IFSC Code: ICIC0006747.

## ORGANIZING COMMITTEE:

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## REGISTRATION FORM

Name:..............................................................................

Designation:......................................................................

Department:......................................................................

Office Address: ................................................................

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E-mail: ................................. Mobile: ...............................

I intend to attend **UGC Sponsored National Conference on Emerging Interfaces in Fluid Dynamics and Optimization Techniques(NCEIFDOT-2017).**

Presenting a Paper: Yes _____ No _____

If yes, title of the paper:........................................................................

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Abstract /Full Paper enclosed: Yes _____ No _____

No. of accompanying persons: .

Accommodation required: Yes _____ No _____

Arrival detail: Date_____ Time _____ Train/Flight No._____

Departure detail: Date _____ Time_____ Train/Flight No. _____

Registration Fee (including accompanying person, if any) paid by Cash Rs. _____ or through DD No....................Amount Rs................, Bank............................. or online Amount Rs._____through Bank _____

Date ------------------------- Signature-------------------------------