

## ABOUT THE WORKSHOP

This program aims at students studying masters/ PG course in various universities and colleges across the country, PhD scholars, young Engineering and Science faculty, and industry personals. Program aims towards exploration of advanced data structure in information storage and retrials, optimization and approximation algorithms, amortized cost analysis of algorithms, hands on experience in algorithm writing.

The course is residential, spanning five days, and various topics in Algorithm design will be covered in the form of lectures and practical's. It is intended that the course will complement and extend the material in existing technical courses that may research students will encounter in their postgraduate training. It will provide an opportunity to broaden awareness of knowledge and techniques in complex algorithm design, recurrences analysis, binary search tree and its variants (RB Tree, 2-3-4 tree, self-adjustment splay tree), graph algorithms, amortized cost analysis, dynamic programming, approximation algorithms, probability and probabilistic algorithms, linear programming and parallel algorithms for fast and efficient data storage and retrieval.

It will provide an excellent opportunity for young teachers and postgraduate students in advanced algorithms design in their on-going research, to network and to start collaborations with other faculty and research scholars. Furthermore, participants have the opportunity to attend keynote sessions about hot topics in the field presented by experienced researcher.

## OBJECTIVES OF THE WORKSHOP

- To develop an understanding of advanced data structure and algorithms.
- To understand the classical methodologies used for the increasing algorithms performance, amortization, randomization, approximation techniques and several very actual topics in design and implementation issues which deal with P, NP complete and NP hard problems.

## REGISTRATION FEES

A limited number of seats will be there on first-cum-first-serve basis.

Industry Participants: Rs. 5000/-

Faculty Members: Rs. 3000/-

Ph.D./UG/PG students: Rs. 3000/-

On-Spot registration: 3500/-

The fee should be submitted, along with the filled registration form through Bank Draft drawn in favour of "Registrar, MNIT Jaipur". Registration fee for the workshop includes Registration Kit, working lunches and Tea.

**To confirm participation please send the scanned copy of the Demand Draft and Filled Registration Form to [mahmed.cse@mnit.ac.in](mailto:mahmed.cse@mnit.ac.in) or submit in person to coordinators latest by October 2017 positively.**

## RESOURCE PERSONS

The workshop content will be delivered from a pool of experts on the subject, Eminent Faculty and Experts from IIT Delhi/ IIT Bombay/ MNIT and renowned Software Industries

Registration Form  
National Workshop on  
**Advance Topics in Algorithms**  
**(October 28 to November 1, 2017)**

Name .....

(In block letters)

Designation .....

Organization.....

Academic Qualification .....

Specialization .....

Mailing Address .....

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Mobile.....

E-mail.....

Details of registration fee-

DD No. .... Date .....

Bank Name .....

Amount Rs .....

Date .....

Signature of Applicant

## ABOUT MNIT

Malaviya National Institute of Technology (MNIT), Jaipur is one of the NITs established by Ministry of Human Resource Development, Government of India. The Institute, earlier known as MREC, was established in 1963 as a joint venture of the state and central Governments. Later in 2002, the college was given the status of National Institute of Technology and on August 15, 2007, proclaimed Institute of National Importance through Act of Parliament. MNIT campus spreads over 325 acres of lush green area in the prime location of Jaipur city. The Institute has completed its Golden Jubilee year 2012-13 and as part of year-long celebrations of its 50 years of teaching and excellence, various academic activities were organized. At present, in addition to research, consultancy and developmental activities, the Institute offers UG and PG (M. Tech./M.Sc. & Ph.D.) level courses to about 5000 students in almost all leading fields of engineering, technology, management and sciences.

## HOW TO REACH MNIT

Jaipur is well connected by road, rail and air services. MNIT is situated on Jawaharlal Nehru (JLN) Marg and is about 9 kms from Main-railway station as well as Central Bus Stand (Sindhi Camp) of Jaipur. Airport (located at Sanganer) is about 6 kms away from the institute.

## PATRON

Prof. Udaykumar Yaragatti  
(Director, MNIT, Jaipur)

## COORDINATORS

Dr. Mushtaq Ahmed  
Dr. Girdhari Singh  
Dr. Yogesh Kumar Meena

## ADDRESS FOR CORRESPONDENCE

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## GENERAL INFORMATION

Accommodation and travelling expenses are to be borne by the participants/ sponsoring agency. Limited accommodation on actual charges may be available at MNIT Guest House II/ Hostels. A request for this need is to be made in advance. The participant will not be paid any TA/DA. Working lunch will be provided by the organizers.

# Malaviya National Institute of Technology, Jaipur

announces

## National Workshop On Advance Topics in Algorithms

October 28 to November 1, 2017



Organized by:  
Department of Computer Science & Engineering,  
Malaviya National Institute of Technology  
Jaipur-302017