

## About MNIT Jaipur

Malaviya National Institute of Technology Jaipur is one of the NITs established in Jaipur known as Pink City. Institute was established as a joint venture of the Government of India and the Government of Rajasthan in 1963. Subsequently; on June 26, 2002 the college has been given the status of National Institute of Technology and on 15 August 2007, Proclaimed Institute of National Importance through Act of Parliament. The Institute is fully funded by Ministry of Human Resource Development (MHRD), Government of India. MNIT campus spreads over 325 acres of lush green area in the central location of Jaipur city. At present the Institute offers undergraduate and post graduate courses (M.Tech./M.Sc./MBA & Ph.D.) to about 5000 students in almost all leading fields of engineering, technology, management and sciences. The Institute has renowned faculty and labs with state of the art equipment. The institute is actively engaged in research, consultancy and developmental activities besides imparting regular teaching.



## About the Course

This Course covers basic principles of different membrane processes and phenomena occurring during the membrane filtration which includes cross-flow filtration, vacuum and pressure driven processes, concentration polarization, Donan's exclusion principle, charged membranes. Membrane preparation & characterization techniques, scaling & fouling, membrane module types (spiral wound, hollow fiber, plate & frame and tubular) as well as the materials for the membranes manufacturing will be covered with special emphasis on water purification and reject management. The various strategies for RO plant design and its economic aspects will also be discussed. *Whether you are new to membrane and water purification or are looking for a refresher course, you will find this STC a great way to get up to speed quickly in a water purification field.*

## Contents

- Overview of Separation Processes
- Membrane Preparation and Characterization
- Membrane Modules
- Pretreatment, Post Treatment and Fouling
- Reverse Osmosis & Other Desalination Technologies
- RO Plant Design
- Ultra filtration & Microfiltration
- Vacuum Membrane Distillation
- Electro-dialysis
- Pervaporation
- Reject Management Strategies

## Experts from

BARC Mumbai/IIT/MNIT/IICT Hyderabad and other reputed Institutes/ Organizations.

## Venue

Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur

## Target Participants

- Faculty members dealing with courses in any branch of Engineering, and Science.
- Research scholars pursuing PhD, PG and UG students.
- Scientists, Engineers, Educationist, and Managers from Industry and R & D Organization.

## Registration

The application in the prescribed format along with the registration fee should be sent to the program coordinator via post or email latest by September 18, 2017. The participants will be intimated by September 19, 2017. The bank demand draft should be drawn in favor of “**Registrar, MNIT Jaipur**”.

## Registration Fee

Participants from other organizations	:Rs.5000/-
Participants from Academic Institutes	:Rs.2000/-
Student Participants	:Rs.1000/-

Limited accommodation (payment basis) can be arranged on shared basis in the Guest House-2 / Hostel at MNIT Jaipur on first come first serve basis. The program will provide working lunch and tea for the participants. No TA/DA will be provided to the participants

## Registration Form

### Short Term Course

on

### Membrane Processes for Water Purification and Reject Management

(September 20-24, 2017)

Name: .....

Designation: .....

Address: .....

.....

Teaching Experience (in years):.....

Contact No. : .....

Email: .....

#### Details of registration fee -

DD. No. .... Dated.....

Bank Name:.....

for Rs. .... is enclosed

Accommodation required: Yes/ No

Sponsoring/Forwarding Authority:

Name: .....

Designation:.....

Signature of  
candidate

Signature of  
Sponsoring Authority  
(With seal)

## Patron

Prof. Udaykumar R. Yaragatti

Director, MNIT Jaipur

## Conveners

Prof. S. P. Chaurasia

Chemical Engineering Department

Dr. Kailash Singh

Associate Professor & Head, Chemical

Engineering Department

Prof. A. B. Gupta

Civil Engineering Department

## Coordinators

Dr. Sushant Upadhyaya

Dr. Madhu Agarwal

Dr. Rajeev Dohare

Dr. Dipaloy Datta

## Address for Correspondence

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## SHORT TERM COURSE

On

Membrane Processes for Water  
Purification and Reject Management  
(September 20-24, 2017)

Sponsored by TEQIP-III



Organized by

Department of Chemical Engineering  
Malaviya National Institute of  
Technology Jaipur-302017