

## CHIEF PATRON

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Vice Chancellor, M.J.P. Rohilkhand University Bareilly

## PATRON

Prof. A. K. Gupta  
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M.J.P. Rohilkhand University Bareilly

## PROGRAM CONVENOR

Mr. Manoj Kumar Singh  
TEQIP-II Co-coordinator &  
Assistant professor  
Mechanical Engineering Department  
M.J.P. Rohilkhand University Bareilly

## COMMITTEE MEMBERS

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Ms. Aradhana Kanchan  
Ms. Parul  
Ms. Kusum Lata  
Mr. Rohit Pal  
Sri H.L.Arora  
Department of Chemical Engineering  
M.J.P. Rohilkhand University Bareilly

## ADVISORS

Prof I.D Mall  
Retd. Professor & Head, Department of Chemical  
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Prof. Surendra Pal Singh  
Director B.L.Agro Oils Limited, Bareilly &  
Prof. P.N Ram  
Ex. Dean, F E T, M J P Rohilkhand University, Bareilly

## Objective of the course

Water quality monitoring is important for environmental protection, managing waterways and their catchments, identifying pollution events and community education. The 'monitoring' comprise all activities to obtain 'information' with respect to the water system. One of the World Development Goals is to improve access to safe water that is an engine for socio-economic growth. In this context, the importance of water resources information systems cannot be over-estimated in the socio-economic development process of nations and the environmental status of our world. The timing and spatial distribution of surface water quantity – and the variability in quality of that water – define how we design and build the infrastructure necessary for our energy, agriculture, mining, transportation and industrial sectors. Safe drinking water sources and entire ecosystems depend on continuous improvements of our understanding of, and efforts to protect our water resources.

In order to achieve this, it is essential that effective water monitoring programmes, along with sound data and information management, are operational globally. Water quality Monitoring is one of the first steps required in the rational development and management of water resources. The principal reason for monitoring water quality has been the need to verify whether the observed water quality is suitable for intended uses. The objectives of the design of sampling networks are Identification of baseline conditions in the water-course system, any water bodies in the water-course system that do not meet the desired water quality standards and any contaminated areas, Detection of any signs of deterioration in water, Determination of the extent and effects of specific waste discharges, Estimation of the pollution load carried by a water-course system or subsystem, Evaluation of the effectiveness of a water quality management intervention, Development of water quality guidelines and/or standards for specific water uses, regulations covering the quantity and quality of waste discharges and Development of a water pollution control programme.

The course aims to alert people about current, ongoing, and emerging issues related to water, to determine compliance with drinking water standards, and to protect other beneficial uses of water. Assessments based on monitoring data help us to measure effectiveness of water policies, determine if water quality is getting better or worse, and formulate new policies to better protect human health and the environment.

## Course Contents

i) Water optimisation in process industry ii) Self Purification of Stream. iii) Water Quality Parameters and its Importance in Drinking Water iv) Electro-chemical Treatment of Contaminated/Polluted Water v) Desalination Technologies for Solid Waste Treatment vi) VOC emission and control vii.) Laboratory Management System as per International Standard ISO/IEC 17025 viii.) Personality Development and Decision Making

## PROGRAM CO-ORDINATOR

**M. S Karuna**  
Head, Department of Chemical Engineering  
Faculty of Engineering & Technology  
Mahatma Jyotiba Phule Rohilkhand University Bareilly  
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## TEQIP-II SPONSORED WORKSHOP

On

**“Water Quality Monitoring, Network Design,  
Sampling, Analysis and Quality Assurance”**

**27.03.2017 to 31.03.2017**

Organizing Department  
Department of Chemical Engineering  
Faculty of Engineering & Technology



**MAHATMA JYOTIBA PHULE ROHILKHAND  
UNIVERSITY BAREILLY (U.P)-243006.**

Phone: +91-581-2521947(O), Website:[www.mjpru.ac.in](http://www.mjpru.ac.in)  
Email:[che.tp\\_mjpru@hotmail.com](mailto:che.tp_mjpru@hotmail.com)

### General Information

Faculty of Engineering & Technology, Mahatma Jyotiba Phule Rohilkhand University, Bareilly is organizing a Workshop on “Water Quality Monitoring, Network Design, Sampling, Analysis and Quality Assurance” from 27.03.2017 to 31.03.2017. The course is open for teachers from AICTE recognized Engineering colleges/Degree colleges recognized by UGC.

Only limited seats are available in this course. The application form duly signed by the sponsoring authority, should reach office latest by 24.03.2017. The candidates will be informed of their selection in advance.

Candidates admitted will be provided lodging which will cost Rs.250 non-ac/ Rs.400 (ac rooms) per person on twin sharing basis. The Boarding and Lodging for all participants will be made in University Guest House. Family accommodation is not available in the campus. However one may make his/her own arrangement in the city hotels at his/her expenses.

Application form with due sponsorship should be sent at the address given below. In case sponsorship is likely to take time, one can send an advance photo copy so as to reach before the due date by email or speed post. However, no candidate will be admitted without due sponsorship.

### About Bareilly

Bareilly is a city with above ten lakhs population. City of Uttar Pradesh located on the banks of river Rāmgangā, The geographical location of Bareilly is given by longitude 28° 22' N and latitude 79° 27' E. This historical city is situated 268 km south east of Delhi, the National capital and 245 km from Lucknow, the state capital of Uttar-Pradesh. It is the Headquarter of Bareilly division and the geographical region of Rohilkhand. Bareilly is the fourth city in Uttar Pradesh with compressed natural gas (CNG) filling stations (after Lucknow, Kanpur and Agra). It is the seventh-largest metropolis in Uttar Pradesh and the 50th-largest in India. It is also gateway for the lake city Nainital. Nainital is only 130 km away from Bareilly. The city, also known as Nath Nagari (Land of Lord Shiva temples), Zari nagari and historically as Sanjashya (where the Buddha descended from Tushita to earth), is a center for furniture manufacturing and trade in cotton, cereal and sugar. The city is also known as Bans-Bareilly. During Mahabharata time Bareilly region was known as 'Paanchal Desh'. Dargah-e-Ala Hazrat is also located here which is a spiritual center for Bareilly sect of Muslims of all over the World. Ramnagar, Aonla is also a nearby place, only 53.9 km away from Bareilly where Shri Ahichchhatra Parshvath Atishaya Kshetra Digamber Jain Mandir, a center of religious consciousness is situated. Mahatma Jyotiba Phule Rohilkhand University is located 8 km from Junction railway station and 3 km from satellite bus stand.

### Application form for Workshop On

### “Water Quality Monitoring, Network Design, Sampling, Analysis and Quality Assurance”

**Duration: 27.03.2017 to 31.03.2017**

(You may get this form enlarged by Xeroxing on A4 size paper or download Application Form from our website:www.mjpru.ac.in )

Affix  
Passport  
Size  
Photograph

1. Name: Ms./Mr./Dr.....  
(In Block Letters)

2. Designation:.....

3. DOB:.....

4 a. Residential Address:.....  
.....  
.....

Pin:..... State:.....

Contact No:.....

4b. Official Mailing Address:.....  
.....  
.....

Pin:..... State:.....

Contact No:.....

Email:.....

Phone (Off.):..... Fax:.....

4c. Name of the Institute:.....

4d. Name of department:.....

5. Academic Qualification (Degree onwards):.....

6. Specialization:.....

7. Teaching Experience in Years:.....

#### Registration fees:

Student & Research Scholar	Rs. 500/-
Faculty	Rs.1000/-
Industry Person	Rs.1500/-

**Mode of payment** : DD/ Cheque/Cash

DD in favour of Head, Department of Chemical Engineering,  
FETMJPRU Bareilly.

Date: (Signature of Applicant)

### SPONSORSHIP CERTIFICATE

The applicant will be permitted to participate in the above programme, if selected. Further, I have personally talked to the applicant and he/she seemed to be sure to attend the course, in case the admission is offered to him/her.

This is to certify that this institute is recognized by AICTE/UGC.

Date:..... Signature  
(Sponsoring Authority: Principal/ Director/ Registrar/ HoD)

### NOTE

1. The application should reach Chemical Engineering Department office latest by 24.03.2017.Only limited seats are available on first come first basis.
2. Please note that in the course 100% attendance is compulsory.

### After completion please mail to:

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Head & Co-ordinator, Department of Chemical  
Engineering  
Faculty of Engineering & Technology  
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