



## FACULTY DEVELOPMENT PROGRAMME (FDP)

ON

# STOCHASTIC MODELLING OF WATER AND ENVIRONMENTAL SYSTEMS USING R

(1<sup>st</sup> July – 6<sup>th</sup> July, 2019)

Organized by

E & ICT Academy & Department of Civil Engineering, NIT Warangal

(Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)

### Preamble:

"Electronics & ICT Academy" was set up at NIT Warangal with financial assistance from MeitY, Gol. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry and Andaman & Nicobar Islands. This academy role is to offer faculty development programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

As part of this initiative, a Faculty Development Program (FDP) on Stochastic Modelling of Water and Environmental Systems Using R intended to give rigorous training on concepts of stochastic modelling for faculty, Scientists and Engineers who are extensively working in the field of statistical analysis of water and environmental systems is being organised during 3-8 June, 2019. The six days program will deal with application of R- based stochastic modelling tools for solving the problems in water and environmental systems.

### Major Course Contents:

- Probability distributions and their applications
- Analysis of hydroclimatic extremes
- Regression and multivariate analysis
- Time series analysis and modelling
- Spatial and Non Spatial Data Analysis Using R
- Data Visualisation and Graphics using R

### Eligibility:

The program is open to the **faculty, scientists and engineers** in Telangana, Andhra Pradesh, Karnataka states and Puducherry and Andaman and Nicobar Islands. Industry and other working professionals are also eligible.

### Faculty conducting this programme:

The programme will be conducted by the faculty members from NIT Warangal; Academicians in the concerned field from IITs/NITs/IIITs are invited to deliver lectures in the programme. Speakers from industries are also expected to deliver as part of the course.

### Registration Fee Particulars:

Faculty and Research Scholars	Rs. 2500/-
Faculty of SC/ST Category	Rs. 1875/- (SC/ ST participants should submit the copy of their caste certificate to claim the concession along with application form)
Industry Participants	Rs. 7500/-

**SC/ST concession is only for faculty of above mentioned states. Research Scholars are not eligible for SC/ST concession.**

The entire registration fee is to be paid in the form of DD/ online transfer using the following details:

DD Details	Online Transfer Details
Demand Draft in favor of "E & ICT Academy, NIT Warangal" payable at any bank in Warangal	Account Name: Electronics & ICT Academy NITW Account No: 62423775910 IFSC: SBIN0020149

### Accommodation:

All the selected participants will be provided FREE boarding & lodging in the institute guest house. No TA will be paid for the participants

### How to apply:

A filled in form of application in the prescribed format duly signed and sponsored by appropriate authorities (along with demand draft/ receipt of online transfer) should reach the coordinator by speed-post. It is also mandatory to send scanned application form and demand draft/ receipt through e-mail to [maresh@nitw.ac.in](mailto:maresh@nitw.ac.in) or [uvnanduri@gmail.com](mailto:uvnanduri@gmail.com) as selection will be intimated only through mail.

### Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 50 (fifty). Additionally 10 participants from industry are allowed to participate. The list of selected participants will be intimated through e-mail. In case a candidate is not selected, the DD will be sent back. Candidates will be issued satisfactory certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

### Important dates:

Last date (Application & DD)	15/6/2019
Selection List by E- mail	20/6/2019
Duration	01/7/2019 to 06/7/2019

### About NIT Warangal & Department:

**National Institute of Technology, Warangal** is the first among 17 RECs setup as joint venture of the Government of India and the state government. Over the years the college has established itself as a premier Institute imparting technical education of a very high standard leading to the B.Tech degrees in various branches of engineering, M.Tech. and Ph.D programs in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

The Department of Civil Engineering offers an undergraduate program in Civil Engineering and seven postgraduate programs. The Department has experienced faculty and well-established laboratories and other infrastructure. The Department of Civil Engineering offers an undergraduate program in Civil Engineering and seven postgraduate programs including M.Tech in Water Resources Engineering, Environmental Engineering and RS&GIS. The Department has experienced faculty and well-established laboratories and other infrastructure. The Department is working on various applications of R programming in water, climate and geospatial related studies. The faculty are involved in teaching R-programming to the M.Tech WRE and RSGIS students. Graduate students and scholars of the department are using R in their research activities.

Warangal is known for its rich historical and cultural heritage. It is situated at a distance of 140 km. from Hyderabad. Warangal is well connected by rail and road. National Institute of Technology campus is 4 km. away from Kazipet Railway station and 15 km. away from Warangal Railway station.



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### SPONSORSHIP CERTIFICATE

1. Name :

2. Designation :

3. Institution :

4. Email :

5. DD No: Bank: Date:

Amount:

6. Address for Correspondence:

Signature of Head of Institution  
(with seal)

7. Educational Qualification:

8. Subjects taught so far:

9. No. of refresher courses/workshops attended:

10. Experience (in years):

Teaching: Research: Industry:

11. Accommodation required: YES / NO

12. Do you belong to SC/ST : YES / NO

(If yes, please specify and attach a copy of caste certificate to claim the concession)

Dr. /Mr. /Ms. .... is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on “**Stochastic Modelling of Water and Environmental Systems using R**”, sponsored by Electronics & ICT Academy during 3<sup>rd</sup> – 8<sup>th</sup> June, 2019 at NIT Warangal.

#### **Address for correspondence**

Post your application form with DD to

**Dr. N. V. UMAMAHESH,**

Professor, Water & Environment Division  
Department of Civil Engineering,  
National Institute of Technology,  
Warangal-506 004, Telangana, India

E-mail the scanned copies of filled-in and duly signed application form along with DD to [mahesh@nitw.ac.in](mailto:mahesh@nitw.ac.in) or [uvnanduri@gmail.com](mailto:uvnanduri@gmail.com)

For more details about Electronics & ICT Academy, NIT, Warangal, please visit: <https://nitw.ac.in/eict>

For further enquiries please contact:

**Mobile: +91 9849730834/ 8332969241**

**Landline: +91 870 246 2112 /2114**

#### **Declaration**

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for the entire duration. I also undertake the responsibility to inform the Coordinator in case, I am unable to attend the course.

Signature of the Applicant

## **Coordinators**

**Dr. N. V. UMAMAHESH,**  
Professor, Water & Environment Division  
Department of Civil Engineering,  
National Institute of Technology,  
Warangal-506 004, Telangana, India

**Mr. V.N. Kameswara Rao**  
Associate Professor, Water & Environment  
Division, Department of Civil Engineering,  
National Institute of Technology,  
Warangal-506 004, Telangana, India