

Government College of Engineering,  
Aurangabad

“Quantum GIS & QSWAT applications in  
Water Resources Engineering”  
3-7 March, 2018

Sponsored by TEQIP (Phase III)

## REGISTRATION FORM

Name: Prof/Dr/Mr/Mrs/Ms \_\_\_\_\_

Designation: \_\_\_\_\_

Organization Address: \_\_\_\_\_

Tel: \_\_\_\_\_ Fax \_\_\_\_\_

Address for communication: \_\_\_\_\_

Tel: \_\_\_\_\_ Fax \_\_\_\_\_

Mobile: \_\_\_\_\_

E-mail: \_\_\_\_\_

Registration Fee: Rs. \_\_\_\_\_

D.D.No. \_\_\_\_\_ Dated: \_\_\_\_\_

Drawee Bank: \_\_\_\_\_

Date: \_\_\_\_\_

Place: \_\_\_\_\_

Signature

Sponsorship and signature of Head of the  
Institute (with date and seal)

(Photocopies of registration form are acceptable)

## Patrons

**Dr. Abhay Wagh**

Director, Directorate of Technical  
Education, Maharashtra State, Mumbai

**Prof. Mahesh Shivankar**

Joint Director, Technical Education  
Regional Office, Aurangabad

**Dr. P. B. Murnal**

Principal, Govt. College of Engineering,  
Aurangabad

**Dr. Archana Thosar**

TEQIP Coordinator

## Convener

**Dr. R. V. Shetkar**

Head, Dept. of Civil Engineering

## Coordinator

**Dr. D. G. Regulwar**

Professor of Civil Engineering and  
Dean (Academics)

## ORGANISING COMMITTEE

Dr. U.J.Kahalekar

Dr. K.A.Patil

Prof. A.M.Mokadam

Dr. R.M.Damgir

Prof. G.K.Patil

Dr. P.A.Sadgir

Prof. Mrs. S.S.Koranne

## ONE WEEK TEQIP - SHORT TERM TRAINING PROGRAMME

On

“Quantum GIS & QSWAT applications in  
Water Resources Engineering”  
3-7 March, 2018

Sponsored by  
Technical Education Quality Improvement  
Programme  
(TEQIP Phase III)



In Association With

Indian Society for Hydraulics  
(Aurangabad Local Centre)



Coordinator

**Dr. D. G. Regulwar**

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Government College of Engineering  
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(An Autonomous Institute of Govt. of Maharashtra)

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“In Pursuit of Global Competitiveness”

## INTRODUCTION

The objective of this training programme is to make the students to understand the application of Quantum Geographic Information System (QGIS) in water resource engineering. The training will address the importance of geospatial model in hydrology. On completing this training program participants can be able to prepare and work with QSWAT which is an open source hydrology model used to compute surface runoff and various other parameters related to hydrology. Also they will learn to prepare all the data that will be required to work with QSWAT.

## DATE AND VENUE

The TEQIP- Short Term Training Programme will be held during **3-7 March, 2018** at Seminar Hall, Department of Civil Engineering, Government College of Engineering, Aurangabad.

## COURSE CONTENTS

- ✓ Introduction to GIS and Open Source Softwares
- ✓ Introduction to Quantum GIS
- ✓ Georeferencing Toposheets using QGIS
- ✓ Digitization/Editing
- ✓ Site Selection analysis using QGIS
- ✓ Introduction to QSWAT
- ✓ Preparing LULC Map using Bhuvan Data
- ✓ Introduction to DEM and Surface Analysis
- ✓ Preparing the DEM for the study area
- ✓ Making soil maps for study area
- ✓ Preparing Weather Data using Global Weather and Weather Maps
- ✓ Watershed delineation using QSWAT
- ✓ HRU Analysis
- ✓ Running SWAT Model
- ✓ Introduction to Mobile Mapping

## ELIGIBILITY

Faculty members from AICTE approved engineering colleges, pharmacy colleges, and polytechnics, research scholars, UG/PG students and engineers working in industry are eligible to attend the TEQIP-Short Term Training Programme.

## REGISTRATION

Candidates should complete the enclosed registration form, and send it by mail/by post to the Coordinator. Confirmation of eligible candidates will be on a first come first served basis up to a maximum of 50 candidates (Approx.). The completed registration forms should be received by the Coordinator by February 26, 2018. The selection of the participants for the TEQIP-STTP will be communicated by e-mail immediately after receipt of registration form and DD till February 26, 2018. After February 26, 2018, even if participant wishes to cancel the registration, registration fees will not be refunded.

## REGISTRATION FEE

**Faculty Participants** : Rs.4000/-  
**Industry Participants** : Rs. 5000/-  
**Student Participants** : Rs. 2000/-

Traveling, Lodging, boarding and other expenses will have to be borne by the candidates. Accommodation will have to be managed by the participants only. However, the guidance will be provided for accommodation. The hotel tariff may range between Rs 700/- to Rs 4500/- per day. All the payments

shall be made by Demand Draft in favour of **Principal, Govt. College of Engineering, Aurangabad** payable at Aurangabad.

## FACULTY

The teaching faculty constitutes experts from various engineering disciplines of our institute, IIT's, NIT's, Government/Private Engineering Colleges and GIS consultants. Each session would be followed by interactive sessions on the subject matter.

## LECTURE NOTES

To fully realize the objectives of the course, the lecture notes will be made available at the time of registration in CD form.

## ABOUT AURANGABAD

Aurangabad is a historic, holy, and a place for tourism in Marathwada region of Maharashtra State. Lord Ghrishneshwar temple, Bhadra Maruti, Saint Eknath Maharaj temple, Daulatabad Fort, Biwi-ka-Makbara, world famous Ajanta and Ellora caves are in close proximity. The city is well connected by roads, rails and air route.

## ADDRESS FOR CORRESPONDANCE

### Dr. D.G.Regulwar

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Aurangabad-431 005 (MS) India  
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0240-2344984 @ Mobile: 9422202380  
E-mail: [regulwar@gmail.com](mailto:regulwar@gmail.com)

**Note: All are requested to bring Laptop (if you have) for hands on training**