

**Quantum School of Technology, M. Tech B.Tech Diploma**

**Quantum School of Business, MBA, BBA**

**Quantum School of Graduate Studies, B.Sc.(Agri), B.Com(CFA), BJMC**

Growth  
Unbound!

# National Conference on Role of Civil Engineering in Nation Building (RCNB - 2016)

16<sup>th</sup> & 17<sup>th</sup> April, 2016

An initiative by



Growth  
Unbound!

**Convener :** Deptt. of Civil Engineering

**Venue:** Quantum Global Campus  
Mandawar (22km Mile Stone), Roorkee- Dehradun Highway  
(nh-73), Roorkee, 247167 Uttarakhand

**Conference Chairman**  
Dr. S.C. Handa

**Conference Vice Chairman**  
Dr. Gulshan Chauhan

**Organizing Secretaries:**

Mr. Karan Babbar  
09996394399

Ms. Swati Bhardwaj  
09690262100

## Important Dates

- Receipt of one page abstract of the paper: 22<sup>nd</sup> Feb. to 16<sup>th</sup> March, 2016
- Receipt of full length paper: 24<sup>th</sup> March, 2016
- Intimation of acceptance of paper: 1<sup>st</sup> April, 2016
- Registration for authors: 8<sup>th</sup> April, 2016

**Objective** : In the recently changed national scenario, India is moving on a fast track mode in the nation building. Infrastructure development is one of the primary requirements to achieve this objective, which will require inputs of Civil Engineers to a very large extent. The aim of the conference “Role of Civil Engineering in Nation Building” (RCNB - 2016) is to bring together relevant human resource to share their ideas to achieve this objective of nation building. The proposed conference will focus on recent trends on design, construction and management in Civil Engineering and will help in understanding these issues. RCNB – 2016 shall be an ideal platform for Researchers, Academicians, Engineers and Industry Professionals from all over the country to share views and present their findings and have intellectual deliberations on all aspects of Civil Engineering encompassing the recent innovations, trends, concerns, practical challenges encountered and the solutions adopted, which will help in the great task of our nation building.

## Conference Themes

### (1) Structural Engineering

- Advances in Structural Analysis and Design
- Effect of Corrosion on Reinforced Concrete
- Special Structures
- Structural Health Monitoring, Retrofitting and Rehabilitation
- Advances in Software Development in Civil Engineering
- New Construction Materials
- Tall Buildings
- Offshore Structures
- New Construction Techniques & Management
- Impact of Environment on Structures
- Optimization Techniques in Structural Design
- Earthquake Resistant Design and Detailing
- Evaluation of Damage to Structures and Engineering Systems Resulting from Earthquakes
- Advances in Structural Dynamics Relevant to Earthquake Engineering
- Seismic Retrofit Strategies for Existing Infrastructure Systems
- Engineering Structural Vibrations Under Wind, Wave and other Dynamical Loadings

## (2) Geotechnical Engineering

- Geotechnical Field and Laboratory Investigations
- Foundation Design Practices
- Geotechnics for Environment, Transportation and Water Resources
- Challenges in Hill Regions including Tunneling
- Ground Improvement Techniques
- Earthquake Geotechnical Engineering
- Case Studies and Instrumentation
- Landslides, Slope Stability and Disaster Mitigation
- Rock Mechanics and Mining Engineering
- Ancient Practices in Soil Mechanics & Foundation Engineering

## (3) Geomatics Engineering

- Advances in Surveying Engineering
- Cartography & Geographic Information System
- Geomatics for Skill Development & Livelihood
- Use of Geomatics in Civil Engineering Projects
- Advances in Photogrammetry & 3-D Mapping
- Navigation & Positioning System
- Remote Sensing Applications in Civil Engineering
- Mapping – Methods Including Laser Based Technique, Production & Applications
- Mine Surveying, Monitoring & Management

## (4) Hydraulics Engineering

- Hydraulic Structures & Instrumentation
- Fluvial Hydraulics & River Engineering
- Groundwater Hydrology
- Water Management including Flooding
- Advancement in Irrigation Engineering
- Effect of Climate Change on Water Resources
- Sediment Management in Hydropower Projects
- Rainwater Harvesting
- Remote Sensing Application on Irrigation Planning and Management
- Advances in Computational Hydraulics & Water Resources Systems

## (5) Environment Engineering

- Appropriate Technology for Water Supply & Wastewater Treatment
- Environmental Impact Assessment
- Hazardous Waste: Concern and Management
- Sustainable Environmental Management
- Natural Resources (Solar, Wind etc.) to Save Environment
- Air Quality & Air Pollution
- Soil Pollution
- Biofilms : Microbial Ecology
- Case Studies
- Green Buildings

## (6) Transportation Engineering

- Intelligent Transportation Systems
- Highway Condition Monitoring & Data Collection
- Railway Engineering
- Modeling and Simulation of Transportation System
- Urban Traffic : Problems and Design Approaches
- Road Accidents and Road Safety: Analysis and Prevention
- Mix Traffic Characterization & Modeling
- Pavement: Advanced Design, Construction and Maintenance
- Traffic – Air and Noise Pollution
- Parking Demand – Supply Management Issues
- Soft Computing Applications in Traffic Engineering and Transport Planning

## (7) Miscellaneous

- Smart Cities - Buildings & Structures
- Design & Maintenance of Harbour & Airport etc.
- Tunnel and Subway Engineering
- Cost & Estimation, Productivity, Benchmarking & Workforce
- Termite Treatment in Buildings & other Structures
- Leakage & Seepage in Buildings
- Emerging Trends in Academics of Civil Engineering
- Use & Application of Various Softwares in Civil Engineering
- Any other Related Topic not Covered in this Brochure

## Call For Papers

Papers on relevant themes of the conference are invited from academicians, research scholars and industry professionals. The papers may be on any of the themes listed earlier or on related areas. “Best Paper Awards” will be given for the best presentations.

## Guidelines For Paper Submission

The prospective authors must submit full length papers conforming to specifications for conference proceedings, using the format available at (<http://www.quantum.edu.in>). The contents of the papers should be original, innovative, having high technical merit and good applicability within the scope of RCNB-2016. The formal length of paper should preferably not exceed 5 pages. The paper should contain all requisite information including the title, names of authors and their affiliations etc. The authors to whom correspondence is to be addressed should be indicated along with his/her contact mobile no. and e-mail id. Abstracts / Full papers can be submitted online at following emails: [rcnb2016@quantumeducation.in](mailto:rcnb2016@quantumeducation.in), [rcnb2016quantum@gmail.com](mailto:rcnb2016quantum@gmail.com) Or may be mailed as a hard copy at Quantum Global Campus address.

**Note : The papers presented in the conference shall be later published in one of the Journals of Civil Engineering.**

## Patrons

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Mr. Praveen Garg      Mr. Anil Goyal

## Mentors

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Dr. P.K. Garg      Vice-Chancellor, UTU, Dehradun

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Er. Vishal Kumar      Plant Head, Everest Industries

## Conference Chairman

Dr. S. C. Handa  
Director General, Quantum Global Campus

## Conference Vice Chairman

Dr. Gulshan Chauhan  
Director, Quantum School of Technology

## Organizing Committee

### Conveners

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Mr. Abhinav Singh      Mr. Gaurav Rana  
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### Co-Conveners

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Mr. Nitin Tomar      Mr. Santveer

## Registration

### a) Registration Fees

- |                         |          |
|-------------------------|----------|
| i) Corporate executives | ₹ 3000/- |
| ii) Academicians        | ₹ 2000/- |
| iii) Research scholars  | ₹ 800/-  |
| iv) Students*           | ₹ 500/-  |

\*Registration Form to be forwarded by the Head of the Institution / Department.

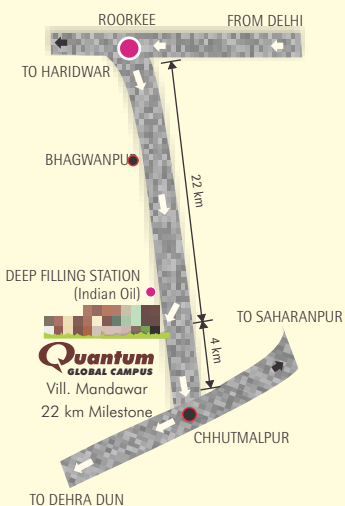
### b) Mode of Payment

Registration fees can be paid through A/C Payee (multi city) cheque / Demand Draft, in favour of Quantum School of Technology, payable at Dehradun. Kindly send the same to: Quantum School of Technology, City Office, 14 Gandhi Road, (4th Floor), Near Kwality Hardware, Dehradun-248001 (Uttarakhand)

or

Registration fee can also be paid online through direct bank transfer in Bank of Baroda, Rajpur Road, Dehradun, Account No. "00880200000464", RTGS / NEFT IFSC CODE : BARB0DEHRAD, (5th character is zero) in favour of Quantum School of Technology. In this case please e-mail the scanned copy of bank transaction receipt to any of the following: [rcnb2016@quantumeducation.in](mailto:rcnb2016@quantumeducation.in), [rcnb2016quantum@gmail.com](mailto:rcnb2016quantum@gmail.com)

## How to reach Quantum Global Campus by road



Railway Stations of Roorkee & Saharanpur are most preferred to reach Quantum. Also, the stations of Haridwar & Dehradun are fairly accessible.

### Transportation

Transport can be provided to and fro Roorkee and Saharanpur Railway Stations for participants, provided request is received minimum 2 days in advance with arrival / departure details.

### Accommodation

We can offer free accommodation to participants, on a room sharing basis in the hostels on campus on first-come-first-served basis. Participants, who wish to stay in a hotel, will have to make their own arrangements. However the organizers shall be happy to assist in booking accommodations in nearby hotels upon request received well in advance.

### Places of interest near Quantum

You may plan post conference tours to Haridwar (45km), Rishikesh (75km), Dehradun ( 50km), Mussoorie (70km). We shall be happy to assist as desired.