

**Government of Karnataka**



Directorate of Municipal Administration, Bangalore.

***Design & safety concepts of civil structures  
with respect to Operation & Maintenance in ULBs***

Date: 29<sup>th</sup> to 31<sup>st</sup> January 2018  
Venue: Nethravathi Hostel, SIUD, Mysuru

**Sri H Ramesha**

Course Director  
Ph.9481169733,  
Email: hebbale@gmail.com

**Vijesh K**

Course Assistant



**State Institute of Urban Development**

ATI Campus, Lalitha Mahal Road, Mysore-570 011

Ph: +91-821-2520163, 2520116, Fax: +91-821-2520164

E-mail: directorsiud@yahoo.co.in Website: www.siudmysore.gov.in

**Aim:**

1. To build more technical ability in design & safety concepts of civil structures in ULBs.
2. To promote sustainability in planning, implementation, development & maintenance of civil structures & utilities in ULBs.
3. To equip participants with Skill and attitude towards efficient operation and maintenance of civil structures with sustainability.
4. To motivate the participants through sharing of knowledge, Innovations & advancements in civil structure building practices, best practices/case studies/field exposure & to sensitize the participants in the field of design & safety concepts of civil structures in Water supply, Sewerage (UGD)system, Buildings, Roads, Storm drains etc; in ULBs.
5. To build quality consciousness/awareness in civil construction materials prior to construction, considerations & precautions to be taken, field/site tests etc;

**Objectives:**

After the completion of the 3 days programme, the participants will be able to

- a) Explain the design & safety concepts of civil structures in ULBs.
- b) Describe Innovations & advancements in civil structure building practices, best practices/case studies/field exposure.
- c) Narrate about sustainability in planning, implementation, development & maintenance of civil structures.
- d) Explain challenges in efficient O & M of civil structures.
- e) Describe about quality aspects involved in civil construction materials prior to construction, considerations & precautions to be taken, field/site tests etc;

**Course Methodology:**

1. Lecture/Presentation through PPTs
2. Videos
3. Case Studies.
4. Field/Exposure Visits
5. Group Discussions.

**Target Group:**

**Engineers** from Urban Local Bodies will be the participants of the training.

**Duration:**

The course is scheduled for 3 days (2.5 days of class room and ½ a day field visit).

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Time	Topics / Sessions	Resource Persons
<b>Day 1 - 29.1.2018 (Monday)</b>		
9.30 to 10.00	Registration	<b>Sri Vijesh K</b> , Course Assistant
10.00 to 10.15	Welcome Key Note Address and Objectives	<b>Sri Venkatesh Kadagadkai G</b> Director, SIUD, Mysuru
10.15 to 1.30	<p><b>Execution of civil works:</b></p> <ul style="list-style-type: none"> <li>• Action plan &amp; Estimate preparation</li> <li>• Procedure for execution of civil works</li> <li>• Practical aspects before/ during/ after execution of civil works in ULBs</li> <li>• Do 's &amp; Don'ts during execution with case studies</li> </ul>	<p><b>Sri Mahesh K</b> Executive Engineer, KC Div, CNNL, T.Narasipura Ph: 9483082508 Email: <a href="mailto:maheshak83@yahoo.in">maheshak83@yahoo.in</a> eekcdtnp@yahoo.com</p>
<b>1.30 to 2.15 Launch Break</b>		
2.15 to 5.30pm	<p><b>Water supply &amp; Sewerage system:</b> Design &amp; Safety concepts in Water supply such as pumps, filters, valves, chambers, water quality etc; underground drainage (UGD) structures such as manhole septic tank, drop manholes, maintenance of sewers etc; with Mechanisation in operation &amp; maintenance, etc; with case studies</p>	<p><b>Sri G M Shivaraju,</b> Rtd. ACE, BWSDB, Bangalore Ph.98454 44135, 99455 40055 Email: <a href="mailto:shivaraju_gm@yahoo.com">shivaraju_gm@yahoo.com</a></p>
<b>Day 2 - 30.1.2018 (Tuesday)</b>		
9.30 to 1.30 pm	<p><b>Roads:</b> Design &amp; safety concepts in various types of Roads, construction stages, O &amp; M of roads; IRC standards &amp; guide lines, safety measures, sign boards, hump standards, Pot holes repair, shoulder drains O &amp; M etc; with case studies</p>	<p><b>Prof. P.Nanjundaswamy,</b> SJCE, Mysore. Mobile-9449264365 Email: <a href="mailto:pnswamy@yahoo.com">pnswamy@yahoo.com</a></p>
<b>1.30 to 2.15 Lunch Break</b>		
2.15 to 5.30pm	<p><b>Field Visits :</b> To Construction sites such as Roads, culverts, bridges, O &amp; M of Water supply and UGD structures etc;</p>	<b>Course Coordinator</b>

<b>Day - 3 31.1.2018 (Wednesday)</b>		
9.30 to 11.30am	<b>Quality assurance :</b> <ul style="list-style-type: none"> <li>Quality aspects in civil construction materials prior to construction, considerations &amp; precautions to be taken, field/site tests etc; Field tests like; NDT, SPT etc; safety guide lines with case studies</li> </ul>	<b>Sri satyanarayana,</b> AEE, KERS, KRS. Ph: 9448390746 Email: <a href="mailto:Kr.satyanarayan@gmail.com">Kr.satyanarayan@gmail.com</a>
<b>11.30 to 11.45 Tea Break</b>		
11.45to 1.45pm	<b>Monitoring of Civil works in ULBs :</b> <ul style="list-style-type: none"> <li>General Precautions before, after &amp; during constructions activities</li> <li>Good practices of constructions</li> <li>Reinforcement detailing</li> <li>Mistakes in constructions</li> <li>Retrofitting of civil works</li> <li>Case studies</li> </ul>	<b>Dr. Sudarshan M S</b> Senior Director, STEDRANT TECHNOCLINIC Pvt. Ltd. Bangalore Ph:9880926064 E-mail: <a href="mailto:mss.ctpl@gmail.com">mss.ctpl@gmail.com</a>
<b>01.45 to 02.15 Lunch Break</b>		
2.15 to 4.15 pm	<b>Storm drains and Culverts :</b> Storm drains, O & M in storm drains, permissible drain section & its velocities etc; Design & safety concepts of culverts, deck slabs, transition flume walls etc; with case studies	<b>Sri Ramesha H</b> Faculty/AEE, SIUD, Mysore Email: <a href="mailto:hebbale@gmail.com">hebbale@gmail.com</a>
<b>04.15 to 04.30 Tea Break</b>		
4.30 to 5 pm	Evaluation, Feed back, Valedictory	<b>Sri Venkatesh Kadagadkai G,</b> Director, SIUD, Mysuru.  <b>Smt. M V Sudha,</b> Deputy Director, SIUD, Mysuru  <b>Sri H. Ramesha,</b> Faculty/AEE, SIUD, Mysuru.

**Sd/-**  
**Course Director**