

### Objectives and Course Content of Short Term Courses

Operational Plan No.	CE-15
Name of the Course	Concrete Mix Design – New Directions
Objectives of Course	<ul style="list-style-type: none"> <li>• The program shall aim at offering the participants the basic principles of advances in cement and concrete mix design as per latest BIS standards.</li> <li>• Comparative designs like ACI, USBR, British Mix shall also be deliberated.</li> <li>• Detailed physical parameters of various ingredients of concrete which support the development of desired properties of concrete both in fresh &amp; hardened state shall be dealt with.</li> <li>• Design and development of fly-ash based and pumpable concrete and the underlying principles shall also be discussed.</li> <li>• Participants shall also be introduced to Non-Destructive Testing Techniques for evaluating the quality of concrete.</li> </ul>
Course Content	<ul style="list-style-type: none"> <li>• Properties of various ingredients of concrete.</li> <li>• Properties of concrete in fresh &amp; hardened state</li> <li>• NDT testing techniques.</li> <li>• Design mix of Concrete both Nominal Mix and Controlled Mix</li> </ul>
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