



POORNIMA UNIVERSITY

Department of Civil Engineering

One Day Workshop on Advanced Concrete Mix Design (04.05.2015)

Department of Civil Engineering organized a one day workshop on Advanced Concrete Mix Design for students of III & II yr successfully on 04.05.2015. This workshop provided the opportunity to the students to gain knowledge regarding mix design of concrete. The workshop started with inaugural function, in which the lamp lightening was done by our chief guest Dr. P.N. Sharma, Guest of honour Dr. Anurag Mishra, State Head of UltraTech cement Mr. Hitesh Mogra, President Dr. K.K.S. Bhatia, Provost Dr. Manoj Gupta, convener Ms. Ramaa Singh (HOD) and co-convener Mr. Pawan Kumar.

The invited Experts shared their technical knowledge and experience with the students. They inspired the students with their speech. After the inaugural ceremony, an expert talk was held on concrete properties and durability of concrete which was given by Dr. Anurag Mishra. Prof. Anurag talked about durability means as the capability of concrete to resist weathering action, chemical attack and abrasion while maintaining its desired engineering properties. It normally refers to the duration or life span of trouble-free performance. Different concretes require different degrees of durability depending on the exposure environment and properties desired. For example, concrete exposed to tidal seawater will have different requirements than indoor concrete and importance of durability aspects which are considered during mix design process.

Preceding forward a session, there is presentation on concrete mix design and types of concrete which was presented by Mr. Hitesh Mogra. He taught to students about mix design process with an example of designing M30 grade concrete. He also explained various type of concrete especially about "SELF COMPACTING CONCRETE (SCC)".

Self-compacting concrete (SCC) is a flowing concrete mixture that is able to consolidate under its own weight. The highly fluid nature of SCC makes it suitable for placing in difficult conditions and in sections with congested reinforcement. Use of SCC can also help minimize hearing-related damages on the worksite that are induced by vibration of concrete. Another advantage of SCC is that the time required to place large sections is considerably reduced.

Then the selected students were divided into 5 groups and each group performed the task to Mix design of concrete for various grades viz. M20, M25, M30. Students did mix design and cast sample cube under the supervision of Mr. Ramswaroop Mandoliya (Senior T.A, MNIT, Jaipur) and Faculty.

7 Days Later to Cube casting Tests on concrete cube were performed and compressive strength of cubes was taken by all groups of their respective grades.

Overall the workshop was technically and practically sound and the long term expected result is to make students technically sound that will help them in building the path of their carrier.

Department is thankful to University for their approval and guidance in conducting this workshop successfully.



