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| Prereq.:0902221\* | Course #:0902231 | Concrete Technology [**3** – **0** – **3**] |
| This course covers cement types and manufacturing, properties of cement and hydration, properties of aggregates. Fresh concrete: Workability, segregation and mixing tests of fresh concrete. Strength of concrete: compressive, tensile and flexural. Elasticity, shrinkage and creep, durability of concrete, testing of hardened concrete, mix design. Material aspects of concrete production will be dealt with in the context of various performance criteria with emphasis on durability. The process of material selection, proportioning, mixing, transporting, placing and curing concrete will be the framework within which topics such as: the use of admixtures; choice of cements; environmental influences; methods of consolidation and testing techniques will be studied. |