



SETHU INSTITUTE OF TECHNOLOGY
(An Autonomous Institution| Accredited with 'A' Grade by NAAC)
PULLOOR, KARIAPATTI – 626 115.



DEPARTMENT OF CIVIL ENGINEERING

Activity Supports Employability/Entrepreneurship/Skill Development

The following activities are conducted in the Advanced concrete laboratory course for the students to support Employability and Skill Development

The Concrete Mix Ratio is the ratio of concrete ingredients like cement, fine aggregate (sand), coarse aggregate (gravel), and water. These mixing ratio are decided on the basis of the type of construction and the mixed designs of the materials. However, Building Codes provide nominal and Standard Concrete Mix Ratios for various construction tasks based on experience and testing. For preparing good quality and durable concrete mix. Concrete Mix Ratio



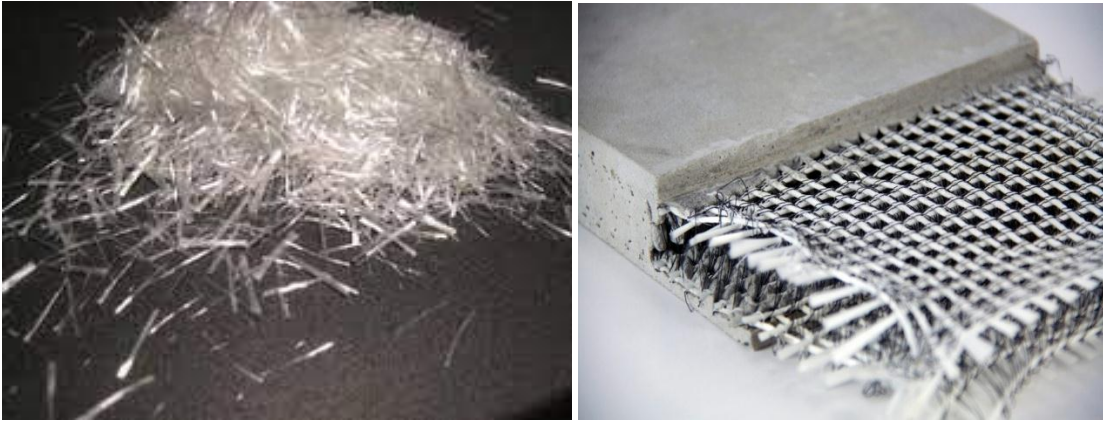
Grade	Proportion
M5	1:5:10
M7.5	1:4:8
M10	1:3:6
M15	1:2:4
M20	1:1.5:3
M25	1:1:2
M30	1:1:3

Mix Design Concrete

Types are listed below,

1. Nominal Concrete Mix Ratio
2. Standard Mixes or Ratio
3. Designed Mix Ratio of Concrete
4. High Strength Concrete Mix Ratio

Fiber-reinforced concrete (FRC) is concrete containing fibrous material which increases its structural integrity. It contains short discrete fibers that are uniformly distributed and randomly oriented.



Longitudinal Compressometer

The Compressometer consists of two frames for clamping to the specimen by means of five tightening screws with hardened and tapered ends. ... Two spacers hold the two frames in position. An adjustable pivot rod rests on pivot screws.



Group discussion activity promotes the teamwork among the students.

Course Instructor

HOD/Civil