

Topic – Test on Concrete

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Relevant Course: Concrete Technology

Relevant Department: Civil Engineering

Relevant Semster: 5th

The details for the modules are:

1. Tests on fresh concrete

- Workability tests for normal and self-compacting concrete
- Determination of setting and hardening of concrete
- Electrical and ultrasonic monitoring of early age concrete
- Plastic shrinkage testing
- Maturity method

2. Tests for mechanical properties

- Compressive and tensile strength
- Modulus of elasticity
- Creep and drying shrinkage
- Fracture properties

3. Durability test methods

- Chloride penetration tests
- Water penetration tests
- Gas penetration tests
- Tests for chemical attack
- Tests for corrosion