

<b>Concrete Technology</b>		Semester	5
Course Code	BCVS03	CIE Marks	50
Teaching Hours/Week (L:T:P: S)	3:0:2:0	SEE Marks	50
Total Hours of Pedagogy	40 hours Theory + 8-10 Lab slots	Total Marks	100
Credits	04	Exam Hours	3hrs
Examination nature (SEE)	Theory/practical/Viva-Voce /Term-work/Others		
<p><b>Course objectives:</b></p> <ul style="list-style-type: none"> <li>• To recognize material characterization of ingredients of concrete and its influence on properties of concrete</li> <li>• To study the properties of fresh concrete and hardened concrete</li> <li>• Proportion ingredients of Concrete to arrive at most desirable mechanical properties of Concrete.</li> <li>• Ascertain various types of special concrete with their properties.</li> </ul>			
<p><b>Teaching-Learning Process (General Instructions)</b>                      These are sample Strategies: that teachers can use to accelerate the attainment of the various course outcomes.</p> <ol style="list-style-type: none"> <li>1. Blackboard teaching</li> <li>2. Power point Presentation</li> <li>3. Videos, NPTEL materials</li> <li>4. Quiz/Assignments/Open book test to develop skills.</li> <li>5. Adopt problem-based learning (PBL) to develop analytical and thinking skills.</li> <li>6. Encourage collaborative learning, site visits related to subject and impart practical knowledge.</li> </ol>			
<b>MODULE-1</b>			
<p><b>Concrete Ingredients</b>                      Cement manufacturing process, chemical composition and their importance, hydration of cement, types of cement. Testing of cement, steps to reduce carbon footprint.                      Fine aggregate: Functions, requirement, Alternatives to River sand, M-sand introduction, and manufacturing.                      Coarse aggregate: Importance of size, shape and texture. Grading and blending of aggregate. Testing on aggregate, requirement. Recycled aggregates Water – qualities of water.                      Chemical admixtures – plasticizers, accelerators, retarders, and air entraining agents. Mineral admixtures – Pozzolanic and cementitious materials, Fly ash, GGBS, silica fumes, Metakaolin and rice husk ash.</p>			
<b>MODULE-2</b>			
<p><b>Fresh Concrete</b>                      Factors affecting workability. Measurement of workability-slump. Compaction factor and Vee-Bee Consistometer tests, flow tests. Segregation and bleeding. Process of manufacturing of concrete- Batching, Mixing, Transporting, Placing and Compaction. Curing – Methods of curing – Water curing, membrane curing, steam curing, accelerated curing, self- curing. Good and Bad practices of making and using fresh concrete and Effect of heat of hydration during mass concreting at project sites.</p>			
<b>MODULE-3</b>			
<p><b>Hardened Concrete</b>                      Factors influencing strength, W/C ratio, gel/space ratio, Maturity concept, testing of hardened concrete. Creep – factors affecting creep. Shrinkage of concrete – plastic shrinking and drying shrinkage. Factors affecting shrinkage. Definition and significance of durability. Internal and external factors influencing durability. Mechanisms- Sulphate attack – chloride attack, carbonation, freezing and thawing. Corrosion. Durability requirements as per IS-456. In situ testing of concrete- Penetration and pull-out test, rebound hammer test, ultrasonic pulse velocity, core extraction – Principal, applications and limitations.</p>			
<b>MODULE-4</b>			

# Syllabus For Mechanical Engineering Vtu

**WJ Hussar**



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