

<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

**RJ Alexander**



## **Syllabus For Mechanical Engineering Vtu:**

## **Syllabus For Mechanical Engineering Vtu** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Syllabus For Mechanical Engineering Vtu**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Table of Contents Syllabus For Mechanical Engineering Vtu**

1. Understanding the eBook Syllabus For Mechanical Engineering Vtu
  - The Rise of Digital Reading Syllabus For Mechanical Engineering Vtu
  - Advantages of eBooks Over Traditional Books
2. Identifying Syllabus For Mechanical Engineering Vtu
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Syllabus For Mechanical Engineering Vtu
  - User-Friendly Interface
4. Exploring eBook Recommendations from Syllabus For Mechanical Engineering Vtu
  - Personalized Recommendations
  - Syllabus For Mechanical Engineering Vtu User Reviews and Ratings
  - Syllabus For Mechanical Engineering Vtu and Bestseller Lists

5. Accessing Syllabus For Mechanical Engineering Vtu Free and Paid eBooks
  - Syllabus For Mechanical Engineering Vtu Public Domain eBooks
  - Syllabus For Mechanical Engineering Vtu eBook Subscription Services
  - Syllabus For Mechanical Engineering Vtu Budget-Friendly Options
6. Navigating Syllabus For Mechanical Engineering Vtu eBook Formats
  - ePub, PDF, MOBI, and More
  - Syllabus For Mechanical Engineering Vtu Compatibility with Devices
  - Syllabus For Mechanical Engineering Vtu Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Syllabus For Mechanical Engineering Vtu
  - Highlighting and Note-Taking Syllabus For Mechanical Engineering Vtu
  - Interactive Elements Syllabus For Mechanical Engineering Vtu
8. Staying Engaged with Syllabus For Mechanical Engineering Vtu
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Syllabus For Mechanical Engineering Vtu
9. Balancing eBooks and Physical Books Syllabus For Mechanical Engineering Vtu
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Syllabus For Mechanical Engineering Vtu
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Syllabus For Mechanical Engineering Vtu
  - Setting Reading Goals Syllabus For Mechanical Engineering Vtu
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Syllabus For Mechanical Engineering Vtu
  - Fact-Checking eBook Content of Syllabus For Mechanical Engineering Vtu
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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