



THE FEDERAL UNIVERSITY OF TECHNOLOGY, AKURE

Civil Engineering Department

CVE 301 – BASIC CIVIL ENGINEERING

COURSEN PARTICULARS

Course Code: CVE 301

Course Title: Basic Civil Engineering

No. of Units: 2

Course Duration: Two hours of theory per week for 15 weeks

Status: Compulsory

Course Email Address: cve301@gmail.com

Course Webpage: <http://www.cve.futa.edu.ng/courseschedule.php?coursecode=CVE%50508>

Prerequisite: Nil

COURSE INSTRUCTORS

Engr. O. J. Oyedepo

Office attached to Structures Laboratory, Ground Floor, SEET Building

Department of Civil and Environmental Engineering,

The Federal University of Technology, Akure, Nigeria

Phone: +234-803-354-7639

Email: oyedepoolugbenga39@gmail.com

COURSE DESCRIPTION

Basic Civil Engineering is a compulsory course for 300 level students in the department of Civil and Environmental Engineering. This course aims to introduce the students to the meaning of Civil Engineering, Engineering and Technology. It enables the students to know varying specialties in Civil Engineering and the requirements to be fulfilled to become a certified Engineer. Responsibilities of the profession are taught and the career opportunities in various specialties are exposed to the student during the course of the lecture which they may find very useful.

COURSE OBJECTIVES

The objectives of the course are to:

- provide students with varying specialties in Civil and Environmental Engineering and requirement to be fulfilled to become a Registered Engineer,
- enlighten students on career opportunities in the profession,

COURSE LEARNING OUTCOMES/COMPETENCES

Upon successful completion of the course, the students will be able to

- know the difference between science, engineering and technology,
- know the requirement needed to be a Civil Engineer,
- have understanding of various specialties and the career opportunities in Civil Engineering

The course would be graded as follows:

Class Attendance	5%
Assignments	15%
Test	20%
Final Examination	60%
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TOTAL	100%

GENERAL INSTRUCTIONS

Attendance: All students are expected to be in class for lectures. Each student is qualified to sit for the final examination only if he or she attains a minimum of 70% in the attendance records. All cases of illness and other forms of unavoidable absence should be communicated immediately to the instructors.

Academic Integrity: All forms of dishonesty in assignments, tests and examination are prohibited. Duplication of another person's work and submitting as yours is an offense. All cases of academic dishonesty will be reported to the University Management for appropriate sanctions.

Assignments and Group work: All students are expected to submit assignments as scheduled. Late submission of assignments is not allowed except if the student notifies the instructor in advance. None submission of assignment will earn the student zero for that assignment.

Code of Conduct in Lecture Rooms: Students should turn off their cell phones during lectures. There should be silence in and around the vicinity of the lecture room. Food and drinks are not permitted in the lecture rooms and Laboratories.

READING LIST

- David G. and Geoffrey P.(1990): The living City First edition, Gilfillan Ltd. Mitchan Surrey
- Onipede A.I.M.(2004): The Role and Practice of Engineering in Society, First Edition, R.R.R. Press Nig. Ltd. Akure Nigeria;
- James R. Prafflin and Edward N. Ziegler (2006): Encyclopedia of Environmental Science and Engineering Fifth Edition, Taylor & Francis United State
- Tyler G. Hicks (2000): Handbook of Civil Engineering, McGraw Hill Company Inc United State;

Legend

- 1- Available in the University Library
- 2- Available in Departmental/School Libraries
- 3- Available on the Internet.
- 4- Available as Personal Collection
- 5- Available in local bookshops.

Week	Topic	Remark
1&2	The meaning of engineering, civil Engineering and its various specialties'	<p>This first lecture would help students to understand the distinction between technology and engineering.</p> <p>Various type of engineering discipline would be discussed as well as varying sub division of civil engineering.</p>
3&4	The profession of civil engineering and its role in the society.	The students would be made to understand the various aspects of the work that is being undertaking by civil engineering as a profession, its role in the sustainable development of any society as well as its impact in the economy of any nation.
5&6	Requirements of a Civil Engineer	The students are expected to know what is required of a person to become a civil engineer and that the person who practices engineering is engineering, and those licensed to do so have formal designations such as a Professional Engineer.
7	Mid semester test	Students would be given a one-hour test that would cover all the topics taught in previous weeks.

Week	Topic	Remark
8 & 9	Philosophy and responsibilities of the profession	<p>This lecture would assist students in understanding the philosophy and the ethics of the engineering profession, their role to the society, client, and the engineering body will be properly taught.</p> <p>Students are expected to know code of ethics that govern the civil engineering profession at the end of this lecture. Engineering ethics and its relationship to the society will be explained to the students</p>
10 & 11	Career opportunities in civil engineering	<p>Different areas where graduate civil engineers can practice her profession and their role in any organization would be taught.</p> <p>At the end of the lecture, students would know where they can apply the profession of civil engineering</p>
12 & 13	Discussion and demonstration of civil engineering techniques and projects, problems, solutions	Varying civil engineering techniques that can be used on any project to be executed by a civil engineer will be discussed, problems and remedial solutions would also be discussed.
14	Second Test and general revisions	Students would be given a one-hour test that would cover all the topics taught in previous weeks and prepare them for the examination