



THE FEDERAL UNIVERSITY OF TECHNOLOGY, AKURE

Department of Civil and Environmental Engineering

CVE 403 – Civil Engineering Practice

COURSE PARTICULARS

Course Code: CVE 403

Course Title: Civil Engineering Practice

No. of Units: 2

Course Duration: Two hour of theory per week for 15 weeks.

Status: Compulsory

Course Email Address: cve403@gmail.com

Course Webpage: <http://www.fwt.futa.edu.ng/courseschedule.php?coursecode=FWT%204043>

Prerequisite: NIL

COURSE INSTRUCTORS

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COURSE DESCRIPTION

Civil engineering works standard and measurements. Contracts and sub-contracts. Works: Simplified Industry model of parties and basic business laws of relations. Construction, supervision and client's office involvement. Job planning and control-programme: Bar charts, Critical path methods, etc. Applications –Basic methods on varied nature of construction works (broad principles only) including: Bridges – Foundation and type, Transport- road, railway, harbour and river works, pipelines. Special structures – Dams, shafts and tunnels preservation of structures.

COURSE OBJECTIVES

The Objectives of the course are to:

- introduce the students to the various aspects of practice of the civil engineering profession, which they will experience as young engineers;

- allow the students gain the first professional knowledge in the procedures involved in civil engineering contracts administration; and
- also to gain experience in team work for project planning, and execution.

COURSE LEARNING OUTCOMES / COMPETENCIES

Upon successful completion of this course, the student:

- should have gained enough confidence, to work with a Consulting Engineer in civil engineering, project planning, design, contract administration and field supervision;
- would have been well prepared for the first field experience that is, the six – month training programme known as the Student Industrial Work Experience Scheme (SIWES); and
- would also fully understand his role in a construction team, and how the civil engineers and other professionals work together on projects development and realization.

GRADING SYSTEM FOR THE COURSE

This course will be graded as follows:

Continuous Assessment:	
Comprising home-work and two tests - 40%	
Final Examination	- 60%
TOTAL	100%

GENERAL INSTRUCTIONS

Students are expected to attend not less than 65% of all the weekly 2 – hour lectures. More importantly, they are to participate actively in class discussion of topics and project examples. Students will occasionally be divided into groups, forming project teams for home-work assignments.

As the course is one of the earliest exposure to professional practice, students will be required to exhibit the traits of the ethics of the profession, in terms of honesty, integrity and pride in engineering works.

READING LIST

¹Alan W., Randolph Barry Z. Posner (1993). Effective Project Planning and Management – Getting the Job Done, Prentice – Hall of India Pvt, New Delhi.

¹Garold D. Oberlander (1993). Project Management for Engineering and Construction. McGraw Hill Book Co, Singapore.

¹Horgan, M.O.C. (1989). Competitive Tendering for Engineering Contracts EEFN Spon Ltd

¹Ivor H. Seeley (1976). Civil Engineering Specification. The Macmillan Press Ltd, London

¹Ivor H. Seeley (1993). Civil Engineering Contract Administration and Control. The Macmillan Press Ltd

¹Journals of Civil Engineering Practice and General Engineering, for specific topics

¹Mark Hackett, Ian Robinson and Gary Stalhorn (Edit) (2007). The Aqua Group Guide to Procurement, Tendering and Contract Administration, Blackwell Publishing, Oxford, UK.

⁴Notes prepared by the instructor given in advance

¹Richard Stone (Edit) (1988). Management of Engineering Projects, Macmillan Education Ltd, London.

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.