



**NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF SCIENCES**

DEPARTMENT OF ENVIRONMENTAL SCIENCE

Plot 91, Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja

COURSE CODE: ESM421

COURSE TITLE: Elements of Land Surveying

CREDIT UNIT: 2

TIME: 2Hours

Instruction: Attempt question number ONE (1) and any other THREE (3) questions. Question number one (1) is compulsory and carries 25 marks, while the other questions carry equal marks (15) each.

- 1.a. What is surveying?
- 1.b. What is the object of surveying?
- 1.c. Identify the primary divisions of surveying?
2. Attempt a classification of Surveying based on instruments used and Purpose.
3. Explain the basic principles of Surveying.
- 4.a. What is chain surveying?
- 4.b. Highlight the purpose , suitability and unsuitability of chain survey.
5. Write detail notes on the following chain surveying instruments.