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**WMA 503 – Water Supply Planning & Management**

**Week 1-4**

- ❖ **Detailed description of the nature and uses of documents for water Resources Engineering Jobs:**
  - a) Form of Contract
  - b) General Condition of Contract
  - c) Contract Specifications
  - d) Bill of Engineering Measurements
  - e) Form of Tender.
- ❖ **Detailed Description of a project cycle with particular emphasis on a water resources project comprising of:**
  - a) Project Identification
  - b) Project Preparation
  - c) Project Appraisal
  - d) Loans Negotiations and Approval
  - e) Project Implementation & Supervision
  - f) Project Completion & Post Evaluation.
- ❖ **Preparation of Feasibility reports for typical water resources rehabilitation & Expansion projects involving Technical Feasibility, Economic Viability, Explanation of Preliminary Engineering Design and the need for an Environmental Impacts Assessment for new projects.**
- ❖ **Scheduling of Project activities:**

**Description of the use of critical path analysis, (CPM), Program Evaluation and Review Technique (PERT), and Operations Research and Systems Analysis as Effective Tools for Project Management.**

  - ❖ **The Law of Contract as it relates to Water Resources Projects.**

**Description of a contract Law as a Legally Binding Exchange of promises**

**or agreement between the Client and the Contractors and Consultants (Parties). Explanation of Contract Law consisting of the following elements:-**

- a) Offer and Acceptance,
- b) Consideration,
- c) Performance or Delivery Formalities and Writing,
- d) Uncertainty,
- e) Incompleteness & Severance etc.

**WMA 510  
(Watershed Management)**

Week 8-10

**Sanitation and Excreta Disposal**

Description of the various methods of the disposal of Human body wastes:  
Pit privy Aqua privy, the septic tank etc.

Waste Water Treatment for Rural Community

- Sedimentation- Sedimentation tanks are used to settle out the suspended insoluble particles contained in raw sewage. This process involves the

gravitation separation of a suspension into its component solid and liquid phases.

- Stabilization Ponds- large shallow basins, in which raw sewage is treated by entirely natural processing involving bacterial and algae.

WMA 516

Water Resources and Public Health

The stuff from Dr.Oluwasanya should suffice here.