



Course description:

This course introduces the student to international federation of consulting engineers and to know the basic blueprint reading and the measurement of construction Work.

Aims of the course:

1. To introduce the basic skills of measurement. Conditions
2. of contract will generally nominate a set of rules of
3. measurement and so the development of measurement skills
4. devolves on the correct interpretation of these rules as well
5. as with unambiguous and repeatable sets of measurements
6. resulting in quantities of work in place.

Intended Learning Outcomes (ILOs):

1. Gained a detailed knowledge and understanding of the specialized areas of cost and value management, tender documentation.
2. Be able to know how to qualify consultants, contractors and client.
3. Be able to know how to interpret drawings and specifications.
4. Undertake the quantification and costing of construction works

Course structures:

Week No.	Lecture Topic
Week 1	Syllabus & Introduction to contracting .
Week 2	Chapter 1: Introduction to international federation of consulting engineers
Week 3	Chapter 2: The Construction Contract
Week 4	Chapter 3: Cost estimation techniques
Week 5	Chapter 4: The Conditions of Contract
Week 6	Chapter 5: International Contracts
Week 7	Case study First exam
Week 8	Chapter 6: The FIDIC Family of Contracts

Week 9	Chapter 7: Disputes – Disputes Adjudication Board (DAB)
Week 10	Chapter 8: Principal Participants in Contract
Week 11	Chapter 9: The Engineer
Week 12	Case study Second exam
Week 13	Chapter 10: Basic Measurement Techniques Substructure - Centre Line Method, Excavations,
Week 14	Chapter 11: Foundations - Disposal/Earthwork support, Concrete Foundations, Walls - Brickwork/Blockwork,
Week 15	Projections, Drainage – Below Ground, Above Ground, Internal Finishes – plasterwork, wall tiles, fitted carpeting, Roof Coverings – simple pitches, hips, valleys etc.
Week 16	Final Exam (50%)

References:

TEXT: Method of Measurement of Construction Work, 8th Edition, published by The Canadian Institute of Quantity Surveyors.

1. Canadian Wood-Frame House Construction, 3rd Edition published by Canada Mortgage and Housing Corporation.
2. Fundamentals of Construction Estimating, 3rd Edition by David Pratt.
3. Method of Measurement of Construction Work, 8th Edition, published by The Canadian Institute of Quantity Surveyors.
4. Canadian Wood-Frame House Construction, 3rd Edition published by Canada Mortgage and Housing Corporation.
5. Fundamentals of Construction Estimating, 3rd Edition by David Pratt.

Assessment Methods:

Methods	Grade	Date
Homework's and participation	10	As schedule
First Exam	20	As schedule
Second Exam	20	As schedule
Final Exam	50	As schedule

