Isra University

Faculty of Engineering

Civil Engineering Department

Fall Semester 2020

Course:	**Quantity surveying and Specifications**
Prerequisites by Course:	Reinforced Concrete 1 (403430), Building Construction (403234)
Prerequisites by Topic:	Students are supposed to have an enough knowledge in regard of construction materials components, properties and mix design.
Textbook:	1- General Building Construction Specifications in Jordan part 1, Ministry of public works,1996 2- Quantity surveyor's pocketbook, Duncan Cartlidge (pdf),2009
References:	1- General Technical specifications for building works book,2010 (pdf)
Course Website:	Muhammad.albtoosh@iu.edu.jo
Schedule & Duration:	16 Weeks, 48 lectures, 50 minutes each (including exams).
Minimum Student Material:	Textbook, class handouts, some instructor keynotes.
Minimum College Facilities:	Classroom with whiteboard and projection display facilities, library.
Course Objectives:	The objectives of this course are: • Understanding building specifications and codes. • Become familiar with building specifications tolerance. • To have the ability to work with figures to high degrees of accuracy to calculate quantites.
Course Outcomes and Relation to ABET Program Outcomes:	By the end of the course, a student should be able to: Calculate the quantites of each item through the buliding construction process. Recognize why specification is a critical part of the construction process.
Course Topics:	1. Preconstruction period (feasibility study) 2. Site visit 3. Project challenges 4. Safety requirements 5. Quality assurance 6. Survey works & excavation 7. Bearing capacity & sieve analysis. 8. Concrete (plain & reinforced) 9. Steel 10. Finishing works

11. Quantities survey. (concrete & steel)

Computer Usage: Three lectures will be assigned for Revit training workshops

Attendance: Class attendance will be taken every class and the university polices will be enforced in this regard.

Assessments: Quizzes, homework's and Exams

Grading policy:

First exam 25%

Second exam 25%

Participation 10%

Final exam 40%

Instructors:

Dr. Eng. Muhammad A. Al-Btoush

Muhammad.albtoosh@iu.edu.jo

Wardbtoush2012@yahoo.com

Office Hours: S, M, T, W, Th. (11:00 – 12:00) & A.M (12:00-1:00) P.M

Class Time and Location: S, T, Th. 10:00 – 11:00 A.M Classroom (4242)

Program Outcomes (PO)

1	An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2	An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3	An ability to communicate effectively with a range of audiences
4	An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5	An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6	An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7	An ability to acquire and apply new knowledge as needed, using appropriate learning strategies

Last Updated: