

German Jordanian University in Partnership with Nabih Elias Azzam & Partners

School of Architecture and Built Environment

Department of Architecture and Interior
Architecture

Professional Diploma in Quantity Surveying

Study Plan

Academic Year 2021/2022

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1. Introduction

Jordan witnessed changes and growth in the construction industry and thus, the need for quantity surveying profession becomes very important. German Jordanian University (GJU) and Nabih Elias Azzam & Partners (NEA) are sharing the strong belief that these challenges in the field cannot be mastered individually, but steps have to be undertaken jointly.

School of Architecture and Built Environment has identified a high demand for creating a specialized professional diploma in Quantity Surveying. The diploma will bring together the theoretical and practical knowledge. The professional Diploma in Quantity Surveying is designed to respond to the increasing need of specialized services in Jordan and the region. It will certainly lead to an increase in the quality of services provided by both public and private sectors.

2. About Quantity Surveying

In brief a Quantity Surveyor (QS) is an essential construction industry professional with expert knowledge in construction costs and contracts. Quantity Surveyors are not to be confused with Land Surveyors or Land Survey Engineers.

Some of the services provided by Quantity Surveyors include the following:

- Cost consulting
- Cost planning and commercial management throughout the entire life cycle of the project from inception to post-completion
- Value determination & Engineering
- Risk management and calculation
- Procurement advice and assistance during the tendering procedures
- Tender analysis and agreement of the contract sum
- Commercial management and contract administration
- Dispute Resolution
- Asset capitalization
- Interim valuations and payment assessment
- Cost management process
- Assessing the additional costs of design variations
- Assist in establishing a client's requirements

The Quantity Surveying profession has been governed by The Royal Institution of Chartered Surveyors (RICS), the regulating body of the QS profession, since establishment

it has been raising the industry's standards and integrity by providing impartial, authoritative advice affecting business and society.

3. Professional Diploma Objectives

Through this Professional Diploma, the goal is to enhance the professional development of candidates by equipping them with theoretical knowledge and most-up-to-date applied skills in the field of quantity surveying that will advance the quality of practice in the field, increase and heighten their career prospects. These goals will be achieved through the focus on the following main areas:

- Enhance commercial and Contractual background in construction
- Better work opportunities in the construction industry
- Get a University Certificate which is certified by the Jordanian Ministry of Higher Education and Scientific Research
- Pathway to becoming a Chartered Quantity Surveyor by the Royal Institution of Chartered Surveyors (RICS).

"The Royal Institution of Chartered Surveyors (RICS) support and recognize the QS Professional Diploma course via the German Jordanian University as a very positive step to professionalizing and providing surveyors in Jordan with the pre-requisite skills and competencies that we would expect to see from a Quantity Surveyor. The Diploma modules will equip the students to apply appropriate and best practices when they enter the workplace and will act as a great foundation learning skillset which will be beneficial when graduates of the programme progress in their careers and elect to apply for RICS membership status".

4. Learning Outcomes

Upon completion of the Professional Diploma, the learning outcomes are:

- To equip candidates with both theoretical knowledge and applied skills to advance current practice and career as well as skills for continuing professional development
- To be able to develop full knowledge of the duties of Quantity Surveyors and understand how they operate as cost managers within the construction industry
- To be able to apply their knowledge and understanding on practical scenarios designed to simulate services provided by the Quantity Surveyor, which start from feasibility and extend to the design and construction stages and ultimately understand how Quantity Surveyor get involved and add value to new build, extension, refurbishment, maintenance and demolition of the built environment
- To understand the different elements of construction

5. Professional Diploma Content & Administration

5.1 Modules

The programme is organized in subjects as below:

- Procurement and Tendering
- Contract Practice, Administration & Conflict Avoidance
- Construction Technology & Cost Planning
- Quantification of Works
- Applied Consultancy

5.2 Modules Description

▪ Procurement and Tendering

This module aims to help students to develop an understanding of how construction projects can be procured and consequent effects of procurement strategies on tendering. The module enables students to examine the effects of project risk allocation on the procurement process and how the choice of procurement method impacts the subsequent phases of the project cycle. It provides knowledge about different procurement theories, together with examples of past and current practices, in addition to that it will enable the student to understand how construction procurement is affected and can be used to affect the wider economy. The module will include demonstration of tendering methods based on competition and negotiation as well as tender documents analysis.

▪ Contract Practice, Administration and Conflict Avoidance

The module aims to enable students to develop deep understanding and critical knowledge of the development process and the roles of key parties in contractual arrangements as they apply primarily in the Jordan construction industry. In addition, students will gain deep and broad knowledge of standard contract forms used in the Jordan and the legal duties and responsibilities of the parties involved in construction contracts. Upon completion of the module, students will also have critical knowledge and understanding of the pre/post-contract administration and financial management duties of the quantity surveyor.

▪ Construction Technology & Cost Planning

The module aims to enable students to develop deep understanding of the principles of construction economics. A prerequisite for the development of in-depth knowledge of construction technology. Students will develop analytical knowledge of building price estimating, cost planning and contract pricing and their application in Jordan construction context.

The module places emphasis on cost planning techniques based on elemental analysis and the relationship between building morphology and costs. Students will develop the ability to critically appraise the use of techniques such as value management, whole-life costing, risk management and benchmarking as well as the application of standard IT packages in construction economics. Upon completion students will be able to competently apply the concepts and practice of construction pricing in real-life scenarios.

▪ Quantification of Works

The module further seeks to enable students to apply their developed construction technology background on the quantification of building work. Students will gain working knowledge on the current methods of measurement and critical understanding of specifications and how they

are drafted. Upon completion of the module students will be able to carry out building measurement competently and be able to appreciate various types of construction.

▪ **Applied Consultancy**

This module aims to explore theories and applications of management consultancy in the context of delivering corporate objectives. In doing so, the module enables students to gain in-depth knowledge of project management principles with particular emphasis on project programming, planning and control techniques. The module finally aims to provide students with a stimulating experience involving up to a week-long study visit to an important destination in which they can apply the knowledge that they have gained in this and other modules to a consultancy practice scenario.

Through the field trip the students will be working in teams and will be expected to innovate and think strategically to provide reasoned advice and complete solutions on a wide range of issues.

5.3 Credit Hours per module

First Semester			
Module	Credit Hour	Weekly Hours	
		Theoretical	Practical
Procurement and Tendering	2	2	-
Contract Practice Administration & Conflict Avoidance	3	3	-

Second Semester			
Module	Credit Hour	Weekly Hours	
		Theoretical	Practical
Construction Technology & Cost Planning	3	3	-
Quantification of Works	3	3	Lab session will be delivered
Applied Consultancy	1	-	2

5.4 Books

- **Procurement and Tendering Core Text (s):**
 - Powel . G (2016). Construction Contract Preparation and Management: From concept to completion, 2nd ed., Basingstoke, Hampshire: Palgrave Macmillan.

Recommended Reading:

- Hackett, M., and Statham, G. (2016). The Aqua Group Guide to Procurement, Tendering and Contract Administration, 2nd ed. Somerset: Wiley.
- Towey, Donald. (2012). Construction Quantity Surveying. Wiley-Blackwell.

▪ **Contract Practice, Administration & Conflict Avoidance Core Text (s):**

- Powel . G (2016). Construction Contract Preparation and Management: From concept to completion, 2nd ed., Basingstoke, Hampshire: Palgrave Macmillan

Recommended Reading:

- Adriaanse, J. (2016). Construction contract law: the essentials (4th edition). Basingstoke,

Hampshire: Palgrave Macmillan

- Allen R (2014), Dispute Avoidance and Resolution for Consulting Engineers. Reston: ASCE
- Hughes, W., Champion, R. and Murdoch, J.R (2015). Construction contracts: Law and management, 5th ed. London: Routledge

▪ **Construction Technology & Cost Planning Core Text (s):**

- Brook, M.(2016). Estimating and tendering for construction work, 5th ed. London: Routledge.
- Emmitt. S and Gorse, C. A. (2014). Barry's Introduction to Construction of Buildings, 3rd ed. Hoboken: Wiley.

Recommended Reading:

- Royal Institution of Chartered Surveyors. (2012). NRM 1: Order of cost estimating and cost planning for capital building. Works. (2nd ed.; RICS new rules of measurement). Coventry: RICS.
- Robinson, H., Symonds, B, Gilbertson, B. and Ilozor, B. (2015). Design economics for the built environment: Impact of sustainability on project evaluation. Chichester: Wiley-Blackwell.
- Ching, F, (2014). Building construction illustrated, 5th ed. Hoboken, New Jersey : John Wiley & Sons, Inc.
- Portman, J. (2014). Building services design management. Chichester: Wiley-Blackwell.

▪ **Quantification of Works Core Text (s):**

- Packer, A. (2016). Building measurement: New rules of measurement, 2nd ed. New York, NY: Routledge.

Recommended Reading:

- Lee, S., Willis, A. and Trench, W. (2014). Willis's elements of quantity surveying, 12th ed. Chichester, West Sussex, United Kingdom : John Wiley & Sons Inc.
- Ostrowski, S. (2013). Measurement using the New Rules of Measurement. Somerset: Wiley.
- Royal Institution of Chartered Surveyors. (2012). NRM 2: Detailed measurement for building works. (1st ed., RICS new rules of measurement). Coventry: RICS.

▪ **Applied Consultancy Core Text (s):**

- Cooke, B. (2015). Management of Construction Projects.

Recommended Reading:

- Cobb, C. (2015). The Project Manager's Guide to Mastering Agile Principles and Practices for an adaptive Approach. Hoboken: Wiley.
- Lock, D. (2016) Project Management in Construction. Taylor and Francis.
- Cartlidge, D. (2012). Quantity Surveyor's Pocket Book, 2nd ed. Hoboken: Taylor and Francis.
- Isaac, D., O'Leary, J. and Daley, M. (2016). Property development: Appraisal and finance, 3rd ed. Basing stoke, Hampshire : Palgrave Macmillan.

5.5 Schedule & Duration

- The course will be delivered over 9 months split into two semesters
- Applied Consultancy Module will be delivered through a series of lectures and a field trip.
- The field trip consists of 4 days.

5.6 Grading and Certification System

- The Diploma will be classified as Professional Diploma with 12 credit hours
- The Diploma is certified by the Jordanian Ministry of Higher Education and Scientific Research.
- The Diploma Certificate will be issued from the German Jordanian University (GJU)
- The Diploma is acknowledged by the Royal Institution of Chartered Surveyors (RICS)

“The Royal Institution of Chartered Surveyors (RICS) support and recognize the QS Professional Diploma course via the German Jordanian University as a very positive step to professionalizing and providing surveyors in Jordan with the pre-requisite skills and competencies that we would expect to see from a Quantity Surveyor. The Diploma modules will equip the students to apply appropriate and best practices when they enter the workplace and will act as a great foundation learning skillset which will be beneficial when graduates of the programme progress in their careers and elect to apply for RICS membership status”

6. Enrolment

6.1 Admission Requirements

Applicants for the Professional Diploma in Quantity Surveying must have a minimum of BSc/ Dip in Engineering or Architecture.

The applicant must have passed the English Language exam IBT from AMIDEAST “Jordan” 59, IELTS from British Council “Jordan” 5.5 or the national exam of the national equivalent exam of the qualifying program exam with a passing grade not less than 50%. Graduates holding certificates of other degrees should apply to the admissions committee, where their cases will be studied individually.

6.2 Acceptance Criteria

(Pre-requisites)

Sr#	Description	Abbreviations / Credentials	Sr#	Description	Abbreviations / Credentials
1	Bachelor of Engineering (BE) in Civil	B.E.	15	MSc in Construction Project Management	MSc
2	Bachelor of Engineering (BE) in Mechanical	B.E.	16	Advanced Diploma in Building Economics	AdvDip
3	Bachelor of Technology in Civil Engineering	B.Tech	17	Diploma in Architecture	Dip
4	BSc in Civil Engineering	BSc	18	Diploma in Building Economics	Dip
5	BSc in Civil Engineering (Highways and Bridges Engineering)	BSc	19	Diploma in Civil Engineering	Dip
6	BSc in Electrical Engineering	BSc	20	Diploma in Civil Engineering (with Specialization in Advanced Construction Technology)	Dip
7	BSc in Mechanical Engineering	BSc	21	Diploma in Information Technology	Dip
8	BSc of Engineering	BSc	22	Diploma in Mechanical Engineering	Dip
9	BSc in Architecture	BSc	23	Faculty of Building Diploma	Dip
10	MSc in Civil Engineering	MSc	24	National Certificate in Technology (Civil Engineering)	Dip
11	Bachelor of Building in Construction Economics	Build	25	National Diploma in Civil Engineering	Dip
12	BSc (Hons) in Building	BSc (Hons)	26	National Diploma in Engineering Sciences	Dip

13	Master of Law in Construction Law and Arbitration	LLM	27	National Diploma in Technology in Civil Engineering Technology	Dip
14	MBA (Construction Project Management)	MBA			

6.3 Tuition and Other Fees

- JOD 3,000 is the fees for the Professional Diploma
- Approximate JOD 300 for required text books
- JOD 100 for health insurance for the duration of the course
- Field trip expenses which are part of the Applied Consultancy module shall be borne by the student (approximate cost is JOD 650)
- JOD 200 per reset course. Reset to be done within two weeks of the final exams
- No refund policy (Refund will only be provided in the scenario that the minimum number of students is not met i.e. 15 students undertaking all modules).

Module	Credit Hours	Course Fees JOD	Per Module Option *
Contract Practice, Administration and Conflict Avoidance	3	3,000	750
Construction Technology & Cost Planning	3		750
Procurement and Tendering	2		500
Quantification of Works	3		750
Applied Consultancy	1		250

* Signing up to individual modules is subject to availability and cannot be guaranteed

6.4 Payment method

- Method 1 - Payment in Cash

CTC accounting department

Jabal Amman, Muath Ben Jabal Street, Building No. 5 Tel: +962 6 4294485 Ext: 4485

P. O. Box: 35247, Amman 11180, Jordan

- Method 2 – Bank Transfer

GJU account number: 090008648197

Iban Number: JO32CAAB1750000000090008648197

Cairo-Amman bank

7. General Rules

- Visa requirements for non-Jordanian students, for details please visit:
<https://www.psd.gov.jo/index.php/en/2016-08-24-07-07-42/borders-and-residence-department>

