



International Forum "Policy, Research and practice in Higher Education"

Panel II "Implementation of Competences Based Programmes: Challenges and Good Practice"

Dr. Ahmad AlHusban

Tuning Middle East and North Africa T-MEDA

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THE FINAL DESIGN OF THE ARCHITECTURAL PROGRAMME

a) Profile of the Degree



- **General Description**

The architectural engineering program provides students with a rich and rigorous foundation in the fields of design principles, communication and representation systems, architectural design, construction material and technology, computer-aided design, urban design, structural systems and behaviors, history and theory, landscape architecture, and city planning.



- **Meta profile**

- a) Design abilities.
- b) Construction and technological abilities.
- c) Theoretical background and socio-cultural value.
- d) Professional practice and work ethics.

THE FINAL DESIGN OF THE ARCHITECTURAL PROGRAMME

a) Profile of the Degree



Context, purpose, and social needs

The Department of Architectural engineering is a research- led and student- centered. It aims at engaging in exemplary architectural teaching, research, scholarship, creative endeavor, and service on international, regional and national level. The program is structured to establish connections with other distinguished national / international foundations, visitors and scholars. The department aim to improve the quality of the built environment through architecture.



THE FINAL DESIGN OF THE ARCHITECTURAL PROGRAMME

a) Profile of the Degree



Occupations, and the potential fields/ sectors for the employment of graduates

- Architecture designer (Architect)
- Architectural Visualization
- Architectural Drafter/Technician
- Model Maker
- Architectural Technologists are specialists in the science of architecture, building design and construction.
- Interior designer architect
- landscape architect
- Independent Practice in Architecture and Urban Development
- In Construction Field: Site engineer, Construction manager, Consultant, Quantity Surveyor
- University Lab Supervisor/Academic (Teaching and research assistant)
- Surveyor
- Working for a Public Authority
- Architectural Journalism



THE FINAL DESIGN OF THE ARCHITECTURAL PROGRAMME

b) Programme



- **Name:** Architectural engineering degree programme
- **Programme admission Requirements:** A general Secondary Education Certificate, Scientific Branch with average above 80%, or equivalent certificate.
- **Level:** Bachelor of Architectural Engineering
- **Length:** The Bachelor of Engineering program is a 5-year program that prepares graduates for entry-level work as architects. The curriculum prepares students for the challenges and demands of architectural professional practice



THE FINAL DESIGN OF THE ARCHITECTURAL PROGRAMME

b) Programme Study Plan



	Credit Hours
University Requirements	27
1. Compulsory	12
2. Electives	15
College Requirements	27
a) Compulsory	27
b) Electives	0
Department Requirements	118
a) Compulsory	103
b) Electives	15
Total	172



APPROACHES AND STEPS OF IMPLEMENTATION OF THE ARCHITECTURAL PILOT PROGRAMME:



1) Online course: design for outcomes based learning in higher education (April 22, July, 2015)

- Block 1: introduction: the value of reflective practice.
- Block 2: competences in course design for higher education.
- Block 3: writing learning outcomes.
- Block 4: From competences to intended learning outcomes (ILOs): developing competences through sequenced steps.
- Block 5: Teaching, learning, and assessment learning outcomes.
- Block 6: Alignment of ILOs with teaching, learning and assessment activities.
- Block 7: summing up: your presentations.



APPROACHES AND STEPS OF IMPLEMENTATION OF THE ARCHITECTURAL PILOT PROGRAMME:



2) One-week training seminar at the Hashemite University, Jordan (May 17-22, 2015)

- Introduction: What is Tuning and what does it offer to Higher Education?
- How do we make high quality degree programmes?
- Designing a Degree Programme in practice
- Writing Competences and Learning Outcomes



Practicing the writing of
Competence Statements and
Learning Outcomes



APPROACHES AND STEPS OF IMPLEMENTATION OF THE ARCHITECTURAL PILOT PROGRAMME:



2) One-week training seminar at the Hashemite University, Jordan (May 17-22, 2015)

- Design of the Degree Programme to be implemented
 - Practicing the profiling a Degree
 - Practicing the Designing of a Degree programme
 - Description of the course
 - Programme structure
 - General Information on the Programme.



APPROACHES AND STEPS OF IMPLEMENTATION OF THE ARCHITECTURAL PILOT PROGRAMME:



2) One-week training seminar at the (May 17-22, 2015)

- Teaching, Learning and Assessment in Student - Centered Degree Programmes
- Reflection on the Teaching Techniques
- Defining the Learning Activities
- Choosing the Assessment Methods
- Connecting the Competence, Learning Outcome, Teaching Approach, Learning Activities, and Assessment Methods Design of the



APPROACHES AND STEPS OF IMPLEMENTATION OF THE ARCHITECTURAL PILOT PROGRAMME:



- 3) Intended learning outcomes (ILOs).
- 4) The teaching and learning approaches.
- 5) Different learning and teaching methods and approaches: lectures, case studies, site visits, design projects, tutorial, individual discussion, seminars, E-support learning, Drawing exercises, research, oral presentation.....
- 6) Different assessment methods: like quizzes, periodic exams, class discussion, assignments, drawing plates, oral reports, project research, assignment, design projects, major examinations,....
- 7) Continuous improvement and evaluation of learning and teaching process
 - Different meeting for all staff .
 - Different methods were used to get feedback from students.
 - We assigned Dr. Ahmad Alhusban for internal monitoring and quality assurance procedures.



COURSE THAT ARE CHOSEN FOR IMPLEMENTATION AT THE FIRST SEMESTER 2015/2016



Course No.	Course Title	Detailed Distribution of Credit Hours		Credit Hours
		Lecture	Practical	
110407101	Architectural drawing	1	6	3
110407111	Free hand Drawing	0	6	2
110407121	Basic Design 1	1	6	3
110407201	Computer Applications in Architectural Design (2)	0	6	2
110407213	Architectural Communication and Presentation (2)	0	3	1
110407221	Architectural Design 1	1	9	4
110407221	Building Materials	2	3	3
110407321	Architectural Design 3	1	9	4
110407336	Building Finishing	2	3	3
110407342	Islamic Architecture	3	0	3
110407345	Theory and Method of Architectural Design	1	0	1
407362	Landscape design	1	3	2



THE FINAL DESIGN OF THE ARCHITECTURAL PROGRAMME

c) Course that are chosen for implementation at the first semester 2015/2016



Course No.	Course Title	Detailed Distribution of Credit Hours		Credit Hours
		Lecture	Practical	
407362	Landscape design	1	3	2
110407421	Architectural design 5	1	12	5
110407421	Working Drawing	0	6	3
110407444	Local &national Architecture	3	0	3
110407465	Conservation of Architectural Heritage	2	0	2
110407471	Lighting and Acoustics	2	3	3
110407523	Special Topics in Architecture	3	0	3
110407541	Human Behavior in Architecture	3	0	3
110407542	Graduation Project 1	1	3	2
Total	20	28	78	55



THE FINAL DESIGN OF THE ARCHITECTURAL PROGRAMME

c) Course that are chosen for implementation at the second semester 2015/2016



Course No.	Course Title	Detailed Distribution of Credit Hours		Credit Hours
		Lecture	Practical	
110407102	Computer Applications in Architectural Design (1)	0	6	2
<u>110407112</u>	Architectural Communication and Presentation (1)	0	6	2
110407122	Basic Design (1)	1	6	3
110407201	Computer Applications in Architectural Design (2)	0	6	2
110407222	Architectural Design 2	1	9	4
110407322	Architectural Design 4	1	9	4
110407335	Building Systems	2	3	3
110407343	Theory of Modern Architecture	3	0	3
110407422	Architectural Design 6	1	12	5
110407452	Quantity Surveying	2	0	2



THE FINAL DESIGN OF THE ARCHITECTURAL PROGRAMME

c) Course that are chosen for implementation at the second semester 2015/2016



Course No.	Course Title	Detailed Distribution of Credit Hours		Credit Hours
		Lecture	Practical	
110407463	Urban Design and Planning	3	0	3
110407464	Housing	2	0	2
110407473	Building and Energy	3	0	3
407481	Specifications and Contracts	2	0	2
110407521	Graduation Project (2)	1	12	5
	15	22	69	45



CHALLENGES, DIFFICULTIES, AND SOLUTIONS



Challenges and difficulties

Apply this methods for the first time
need more Time, staff, continuous
development and improvement.

Solutions and good practices

- Increase the staff,
 - developed the staff capabilities,
 - increase the staff motivations,
 - apply for accreditation
-
- Using the student center learning and competences-based approach increase the effectiveness of learning and teaching in architectural engineering education.



HOW TUNING CAN FURTHER HELP FOR THE IMPLEMENTATION PROCESSES?



We ask Tuning to held yearly meetings and forums for all universities to discuss the implementation process and how can we develop this process, encourage all the participant university to publish their best practice research in special journals issues.



THANK YOU



QUESTIONS

