Progress Report No.2

Title of the project

**An Industry Oriented Master Program in Telecommunications Engineering-
Towards and EU Approach**

T E M P U S   IV
(Third Call for proposals EACEA N° 28/2009)
Joint Project

511074

PROGRESS REPORT	**DEADLINE**
• Report on implementation of the project • Statement of the costs incurred	31/12/2011

Submitted by: Project Management Committee

Approved by: YU internal monitoring committee

- **Prof Hanan Malkawi, Vice President**

- **Prof. Muwaffaq Alomoush, Dean of Hijjawi Faculty for Engineering Technology**

- **Mr. Shareef Manasrah, Financial Manager of YU**

PREFACE

This document presents the second progress report on the implementation of the Tempus project prepared for the internal monitoring committee of the project.

Title of the project
An industry Oriented MSc Program in Telecommunications Engineering-Towards and EU Approach
Agreement number: Project: 511074-TEMPUS-1-2010-1-JO-TEMPUS-JPCR
Coordinator: Yarmouk University, Jordan
Legal Representative: Prof. Prof. Abdullah Al-Musa, President
Coordinator of the Project: Dr. Khaled Gharaibeh
Duration: 15.10.2010-14.10.2013
Budget: € 937,000
Project Acronym: MTE-EUA
Management Committee:
1. Dr. Khaled Gharaibeh –Coordinator-Yarmouk University, Jordan (Chair)
2. Dr. Hazem Kaylani -- contact person of Partner No.2 - German Jordan University-Jordan
3. Dr. Awni Itradat -- contact person of Partner No. 3 - Hashemite University-Jordan
4. Dr. Noel Murphy -- contact person of Partner No. 4 – Dublin City University, Dublin - Ireland
5. Dr. Laurie Cuthbert -- contact person of Partner No. 5 - QMUL Queen Mary University of London-United Kingdom
6. Dr. Felipe Peñaranda Foix -- contact person of Partner No. 6 - Universidad Politécnica de Valencia, Spain.

Project Objectives
O1. To reform and modernize the existing Yarmouk University Masters programme in Wireless Telecommunications including curricula, teaching methodologies, quality control, and to establish new up-to-date tracks in related areas.

O2. To enhance student learning outcomes and skills to meet local market needs and international best practices through the building of technical capacity at YU and local partner institutions.

O3. To converge our study programs with the EU educational system with regard to the Bologna process and achieve academic and professional recognition of YU programmes within the EU (which will also contribute to intercultural interaction).

O4. To help local project partners establish and implement their MSc programs in telecommunications engineering at their institutions.

O5: To help the EU partners to learn more about the needs, capacities and educational approaches of the partner institutions in Jordan, and, to better understand the needs of both local and international industry.

REPORT ON IMPLEMENTATION OF THE PROJECT

Overall achievements

Please provide a description of the <u>activities carried out</u> since the start of the project and describe to what extent, the <u>results</u> achieved since the beginning of the project, are contributing to the project objectives.

The following activites have been carried out and completed by the date of this report:

Del. No.	Deliverable	Submission Date	Contribution to Objectives
1	Curriculum Review	1/6/2011	O1
2	Competition Analysis	1/10/2011	O1
3	Demand Analysis	31/12/2011	O1
4	Workshop on Market Needs	16/10/2011	O1
5	Visits of JO academic staff to EU	1/10/2011	O1, O3
6	Seminars by EU professionals	20/11/2011	O1, O3
14	QC plan	1/6/2011	O2, O3
16	Progress Reports	1/12/2011	O1, O3
17	Financial Review	31/12/2011	O1, O3
18	Memorandum of Understanding	1/3/2011	O1- O5
20	E-Database	1/6/2011	O1- O5
21	Project Website	1/2/2011	O1, O3

Contribution to the project objectives:

Deliverable No.1:

Through the surveys and meetings conducted by the Curriculum Review Work Group in a span of about 6 months, a review of the existing program and curriculum was realized as a report which highlights the main problems associated with the existing program per the reviewers' comments, and draws a set of recommendations for improvement of the existing curricula and courses based on expert opinion collected through questionnaires. The review was based on expert opinion about the program, and the contents of the curriculum, as well as teaching and evaluation methods. Furthermore, the review covered other aspects such as the comparability of the program to similar international programs and the relevance of the program to the needs of local and regional markets.

The curriculum review resulted in an analysis of the problems associated with the current program, its curriculum and its courses with regard to contents, teaching methodologies, quality control.

Contribution to project objectives:

> O1: *Reform and modernize the existing Yarmouk University Masters programme ...*: a set of recommendations was developed through meetings and questionnaires to provide an input to the curriculum development process which will be conducted in future activities. These recommendations include guidelines on the design of teaching methodologies and program contents of the new programs.

The achievement of this objective is recorded in the report: (REP-YU1-1-CurriculumReview)

Deliverable No.2:

A survey was developed and conducted to collect information related to Masters programs in the area of Telecommunications and Business Administration offered by 18 universities in Jordan and the region. The objective was to study the competitive environment of three programs proposed by the Telecommunications Department at YU. Ten M.Sc. Programs offering degrees related to electrical and communications engineering and eight MBA programs were considered as potential competitors. Several criteria were considered to evaluate the competing programs, and then used to develop a questionnaire which quantified the competition environment. After those questionnaires were distributed and collected, data were summarized and comparisons were made between the different programs. There are two main outcomes of the competition analysis process. Firstly, the **main attributes** of a **successful** Masters program in Telecommunications related fields were identified. Secondly, based on the identified competition environment, it was possible to define the **structure and characteristics** of the new proposed new programs.