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International Master of Science on Cyber Physical Systems

DISSEMINATION AND EXPLOITATION REPORT D5.6

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Contact Person	Ezzaldeen Edwan	Organisation	PTC
Phone	+970595189775	E-Mail	ezedwan@ptcdb.edu.ps
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Contributors

Name	Organization
Ezzaldeen Edwan	PTC
Asmaa Shaheen	PTC

Disclaimer

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1 Introduction

1.1 Abstract

The Dissemination and Exploitation Report (DER) presented here is a report that presents the conducted dissemination and exploitation activities in the second year of the Erasmus+ MS@CPS project. The dissemination activities during the second year focused on updating the project's Website, and social media pages, establishing local websites for guiding students, holding workshops and issuing the second edition of the newsletters. Project website is available to make the public aware of the activities that have been undertaken in the framework of the MS@CPS project. Social media pages are updated regularly with all activities conducted or all events held by the partners to make the project known. As the resources dedicated to dissemination are restricted, cost-effective ways were chosen to achieve a maximum publicity for the project and its results. The Exploitation measures focuses on benefiting from MS@CPS exploitable results in initiating the master program and running its first round within the project duration.

1.2 The scope of the document

This deliverable reports the activities for dissemination and the progress in procedures for exploitation during the second year of the Erasmus+ MS@CPS project.

1.3 Objective

The objective of the second year MS@CPS Dissemination and Exploitation Report (DER) is to report about organised activities during the second year in order to promote the exploitation of the project's results and the widest dissemination of knowledge from the project. Target groups and stakeholders are identified in an excel file that is shared among the consortium.

PTC, who is coordinating WPS and this deliverable, has developed the Dissemination and Exploitation Plan and managed the reporting of all activities in this regard. However, all project partners are involved in dissemination and exploitation activities to support access, foster awareness, and transfer results for impact, especially in their own countries and in their own communities. It will be reviewed throughout the project in order to assess the effectiveness of different dissemination activities.

1.4 Terminology

Accreditation: is a process of validation in which colleges, universities and other institutions of higher learning are evaluated. The standards for accreditation are set by a peer review board whose members include faculty from various accredited colleges and universities. In this report, we focus on accreditation of a study program.

CPS: Cyber-Physical Systems

DEP: Dissemination and the Exploitation Plan

DER: Dissemination and Exploitation Report

Partner Countries: Countries where the program to be implemented (Palestine, Tunisia, Jordan)

Program Countries: EU partners (Germany, Sweden, UK)

Program: The master program (CPS) to be implemented.

SharePoint: a commercial web-based collaborative platform offered by Microsoft company.

1.5 MS@CPS Stakeholders

MS@CPS targets a wide range of stakeholders from academia as well as industry:

- Graduates in computer engineering, electronic engineering, mechatronics, information technology and computer science or other related fields.
- Academic staff and scientific community in the aforementioned fields.
- Industrial communities, mainly companies in the field of embedded hardware and software.

1.6 Relation to other deliverables

The second edition of the DER reports the progress in dissemination and exploitation activities during the second year of the project. Thus, the deliverables D5.1, D5.2, D5.3 and D5.4 are related to this deliverable.

D5.1: Dissemination and exploitation plan, D5.6 reports on progress of implementing the plan in D5.1.

D5.2: Online publishing, D5.6 reports on all online publishing regarding the project during the second year. This includes publishing at the project website and its social media pages or at other related websites, e.g. news websites, partner universities websites.

D5.3: Formal establishment of MS@CPS program, D5.6 reports on progress of the accreditation to launch the MS@CPS at the agreed upon date of September 2020 by all partners.

D5.4: Follow up seminars and open info day, D5.6 reports on a schedule of open info days and seminars at all partner universities.

1.7 Relation to work packages

The dissemination relies on inputs from activities of all work-packages to cover them in the media and make the society aware of them. The exploitation activity of accreditation is dependent on work-package 2 as it needs a study plan of all courses for accreditation.

2 Progress in Implementation of Dissemination Plan

2.1 Objective

Dissemination activities ensure the establishment of collaborative links with the academic community through the organization of workshops, seminars, open days and contact with other projects that have similar nature.

2.2 Target audience

The MS@CPS dissemination strategy covers both internal and external communication and dissemination.

Internal communications were conducted via SharePoint, email list, monthly teleconferences, and periodic face-to-face meetings. Shared documents, including administrative project documents, templates, reports and publications, are stored and shared via SharePoint platform, giving all partners access at all times. The project website focuses on external audiences.

The external dissemination activities aim to:

- Spread project results along with the gained experience within the project consortium and outside the project consortium to potential universities and industrial stockholders.

- Organize informative sessions, such as open house days at partner universities to acquaint future potential students and academic staff with the project.
- Continuous contact with local industry by all partners in the corresponding partner countries.

2.3 Dissemination documents

Dissemination documents includes:

2.3.1 Layout of the documents

All project official documents follow this template, which is used by this report as described in the dissemination and exploitation plan D5.1:

http://blogs.uni-siegen.de/ms-cps/files/2019/07/D5.1_MSCPS.pdf

2.3.2 Text-based information: flyers, posters, policy briefs, policy recommendations

Flyers and posters were designed according to the corresponding event and are available for download on the project website. They include project logo as well as the EU sponsorship logo. In the second, year several posters, rollups, brochures were designed and printed for the project events. Examples of designs for all partners are shown in Figure 1 and Figure 2. The designs are printed at partner institutions and distributed at the venue of the held activities.

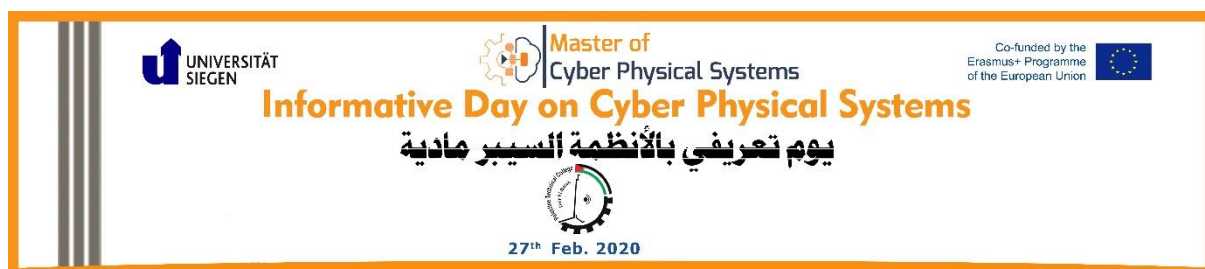


Figure 1 Poster design for Informative day on CPS



Figure 2 Poster design for Consortium Meeting and Training in Hatfield

2.4 Progress at the dissemination tools

2.4.1 Progress in Electronic mailing lists and contact list

Internal Lists: The internal mailing list provides a mechanism for internal project communications and its continuously used among the consortium. It includes members of the project teams at each partner university. The address of this internal mailing list is: erasmus_mscps@listserv.uni-siegen.de

External Lists: Contact information of all related stockholders and key players are collected and stored on the web-based collaborative platform of the project and it is updated with new contacts.

2.4.2 Progress at the website

Project website is available to make the public aware of the activities that have been undertaken in the framework of the MS@CPS project. The official project website was launched at the dedicated project domain: <http://www.ms-cps.eu>. The website contains all the necessary information regarding the project objectives, the consortium, reporting of the project results and the deliverables, press material that has been/or will be released, related publications and presentations, news and contact information. A screenshot of the main page of the official project website is presented in Figure 3.

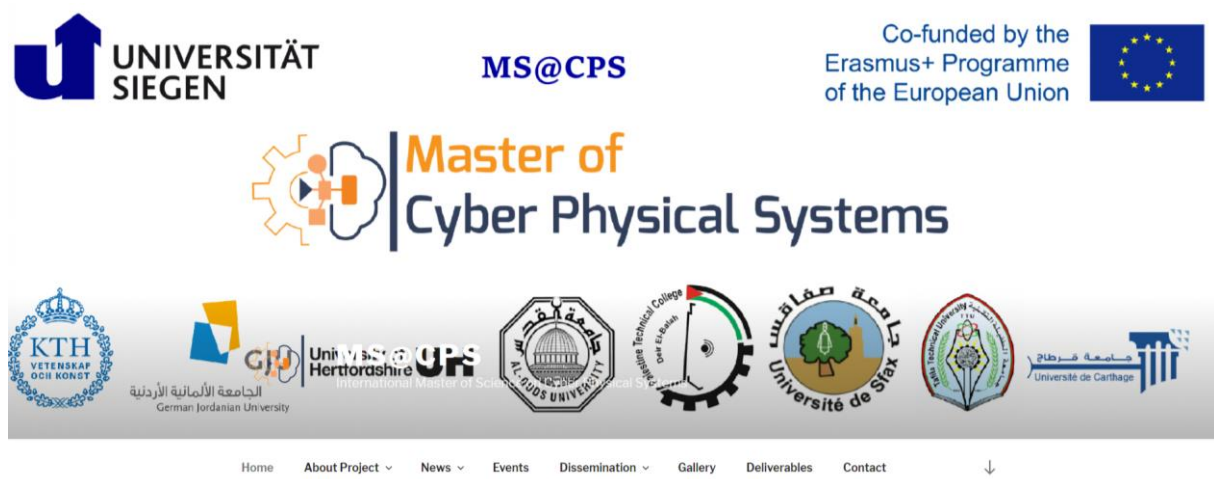


Figure 3 Screenshot of the official project website

For internal communication, a web-based collaborative platform (SharePoint) offered by the IT department of University of Siegen is used by MS@CPS members as the principal means of distributing administrative, policy, and procedural documents. A screenshot of the used SharePoint platform is shown in Figure 4.

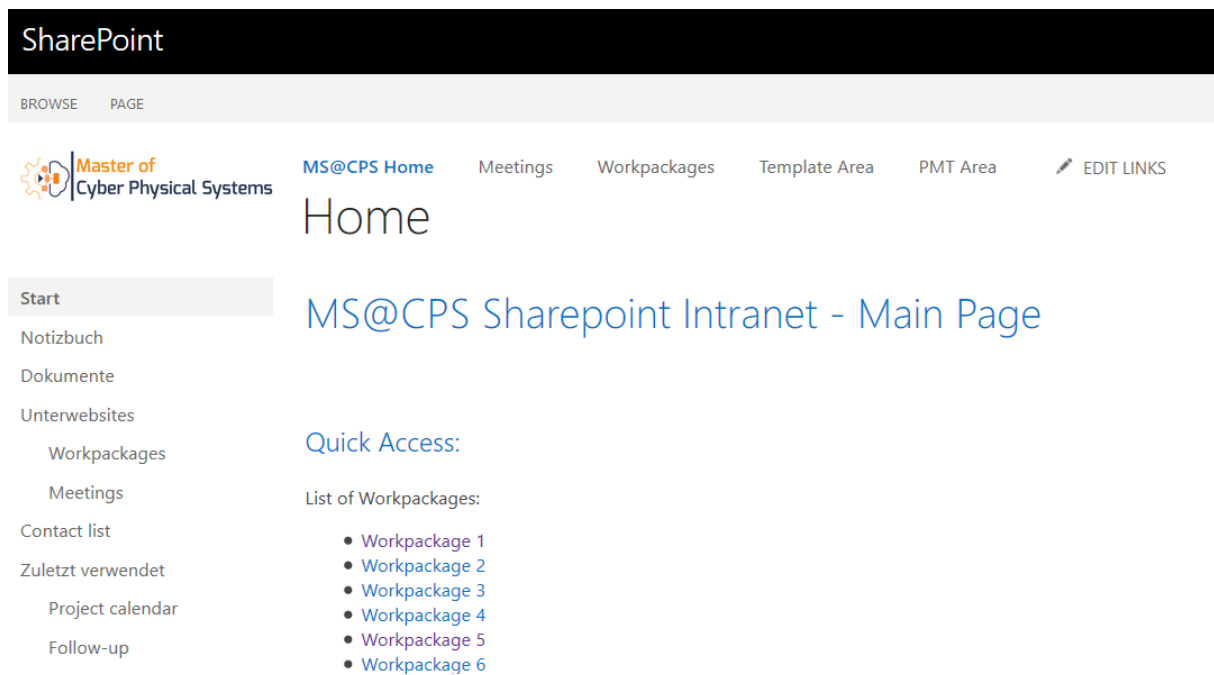


Figure 4 Screenshot of SharePoint Platform

The platform is password protected, so that internal documents and material may be accommodated and thus made accessible to selected individuals and/or groups.

2.4.3 Progress at social media pages

Social networking is part of the MS@CPS communication strategy. Currently, Facebook and LinkedIn are used to disseminate relevant information. The Facebook constituted an interactive dissemination tool for project's word and activities. The Facebook page at the issuance of this report reached 787 followers and the LinkedIn page reached 456 followers all of whom are organic. Workshops, face to face meetings, monthly teleconference meetings and project news are covered within the Facebook page. All posts which are published on Facebook page are published as well on the LinkedIn page with same contents to achieve the most possible visibility. Figure 5 and Figure 6 show screenshots of Facebook and LinkedIn pages respectively.



Figure 5 Screenshot of the project's official Facebook page



Figure 6 Screenshot of the project's official LinkedIn page

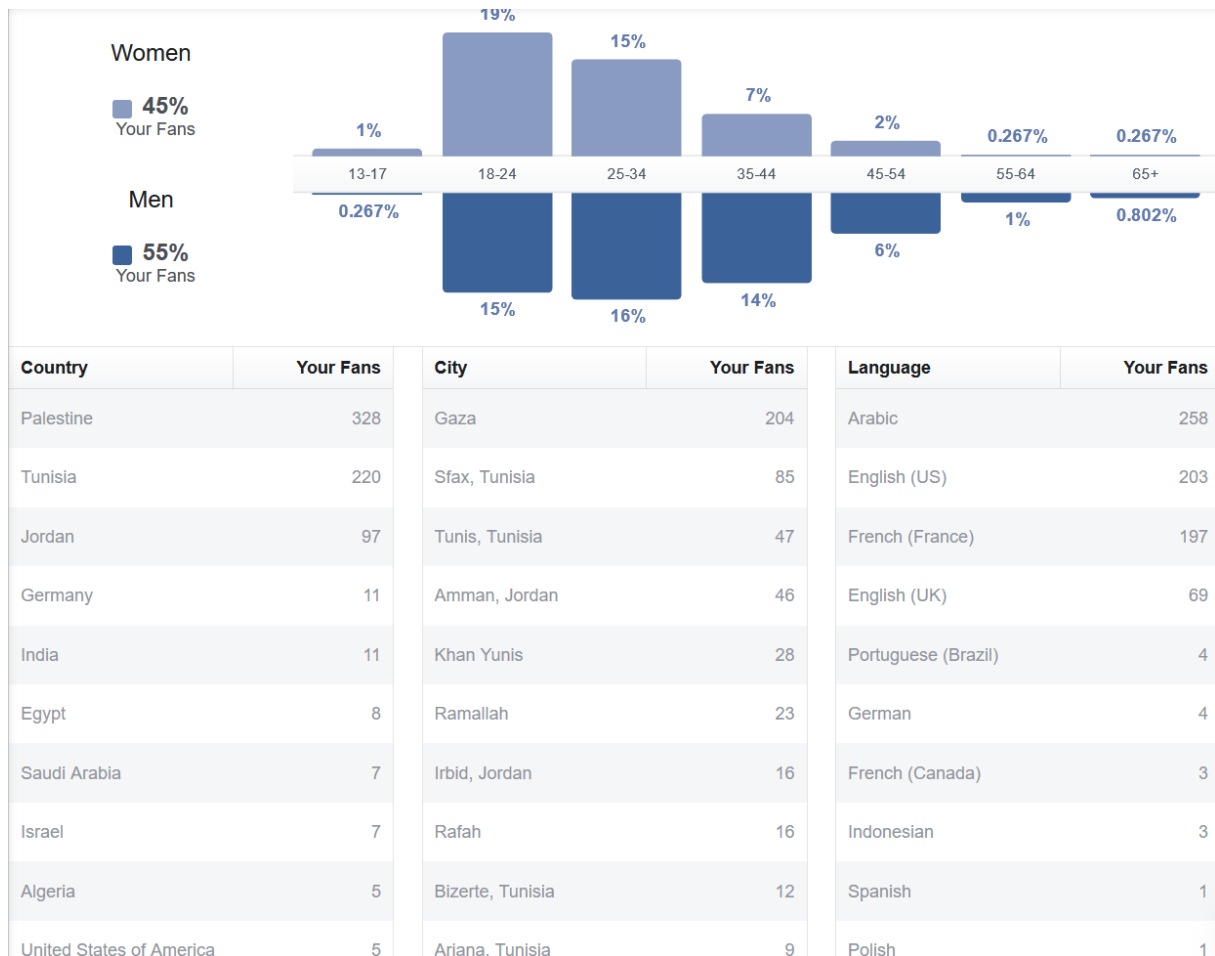


Figure 7 shows recent insights about followers of the Facebook page as of 1st of April 2021. It shows gender distribution of followers, their geographical locations and their age distribution. Clearly, most followers come from Palestine, Tunisia and Jordan respectively. In Palestine, majority of page fans are from the Gaza Strip. There is a good presence for fans from Tunisia. Interestingly, there is almost equal share of females and males at the young age (Interested students) which is a good sign for gender balance. Language order of followers is shown as well in

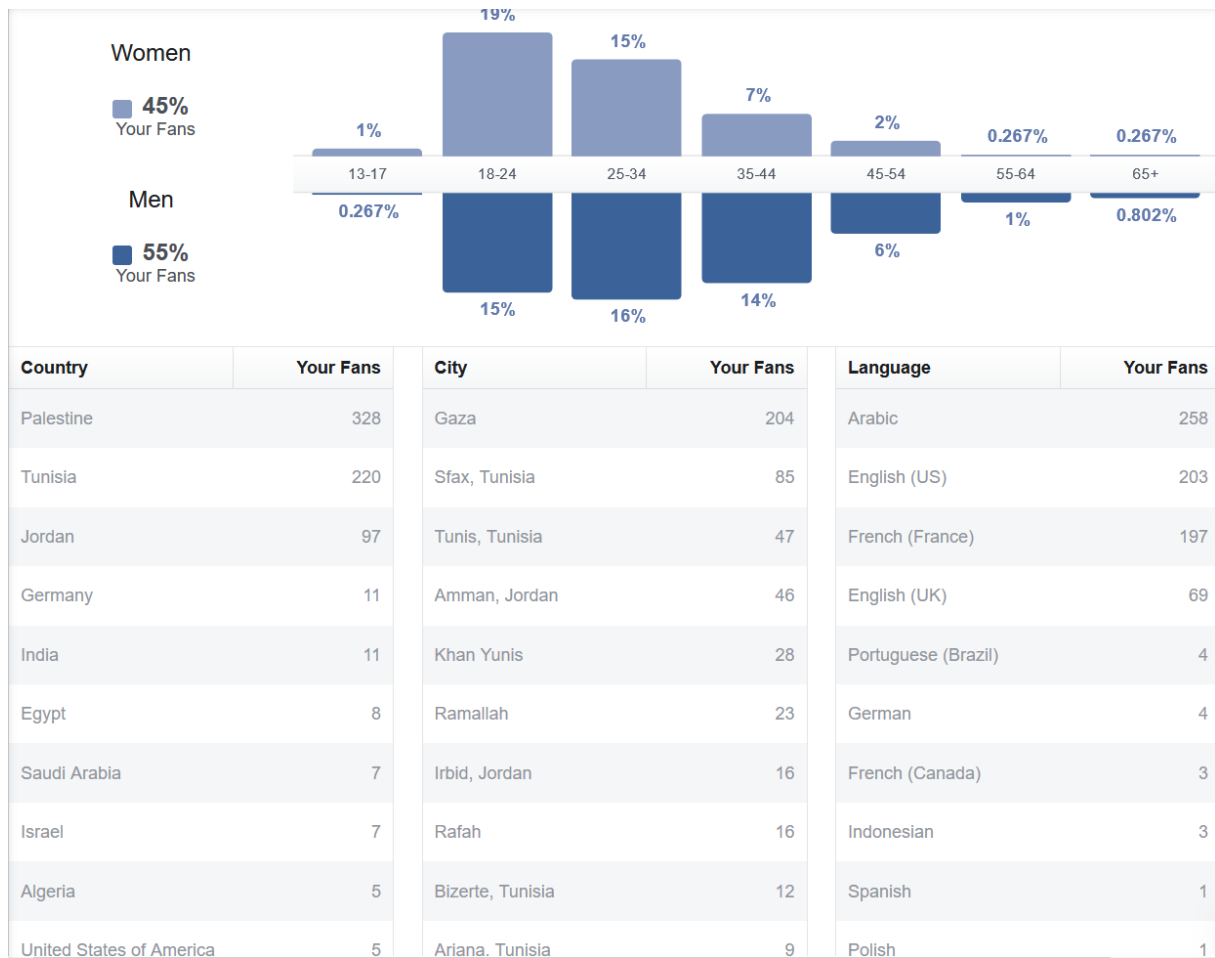


Figure 7. Majority of followers of the Facebook page (Language for buttons, titles and other text from Facebook) have Arabic as their Facebook language and English is ranked as the second while French comes as the third in the order.

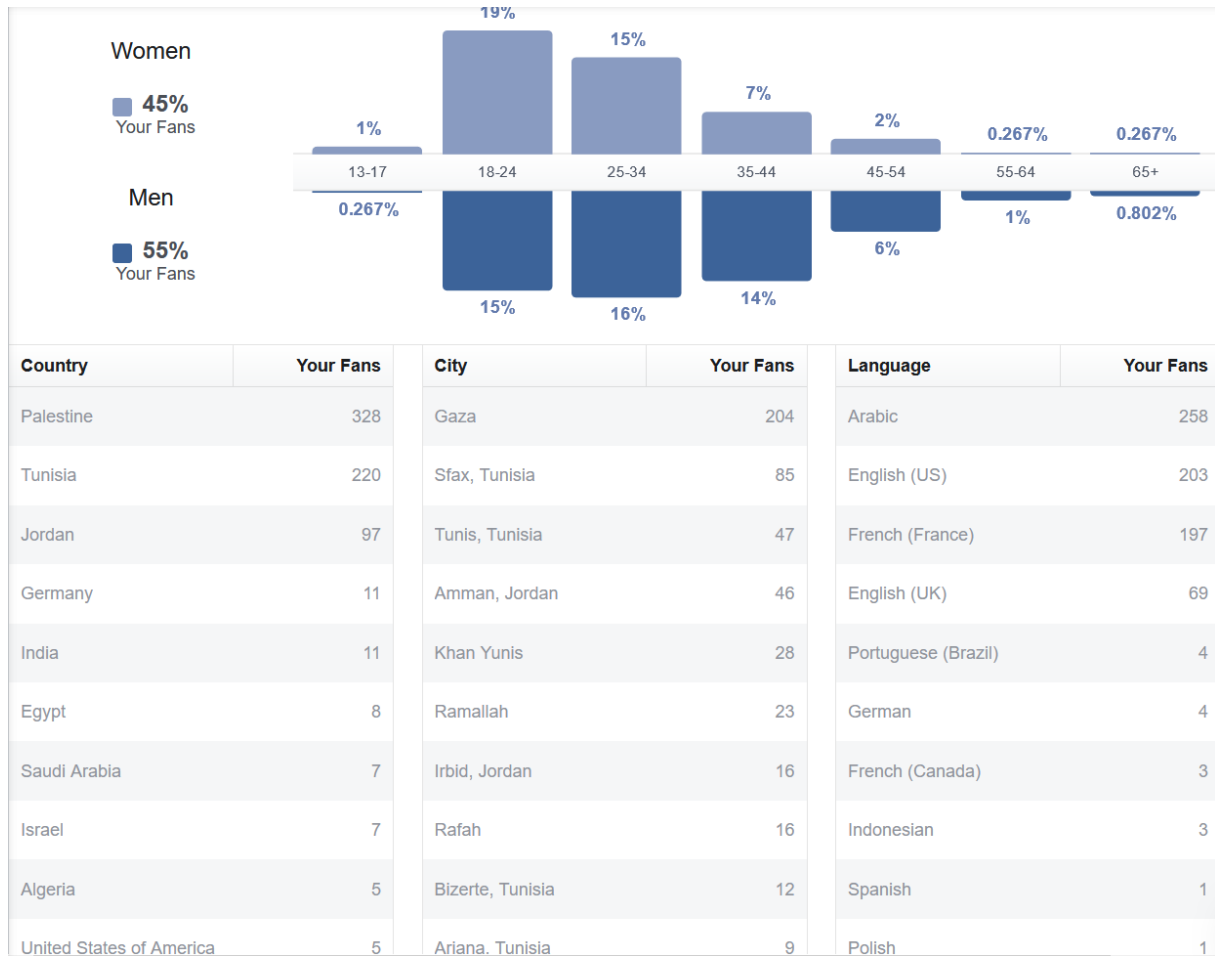


Figure 7 Screenshot of recent insights about followers of the Facebook page.

Figure 8 shows followers growth at project’s Facebook page in the past 24 months as of 27th February 2021. The total number of followers at the end of the first year was around 500 and it increased to reach 787 at the end of second year. It is a sign of a continuous growth due to dissemination activities.

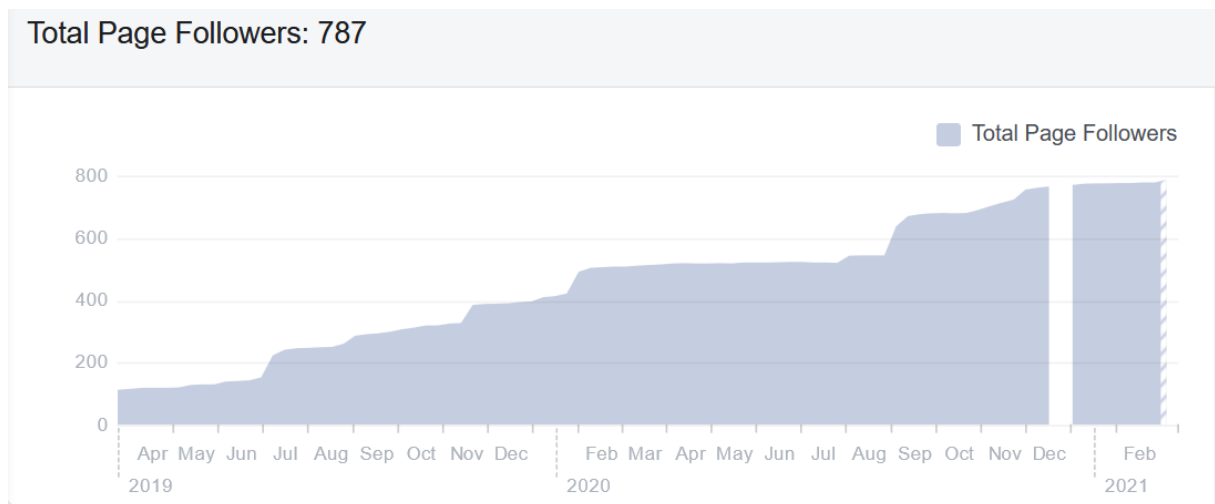


Figure 8 Screenshot of total Facebook page follower in the past 12 months

Figure 9 shows followers growth at LinkedIn in the past 12 months as of 27th February 2021.

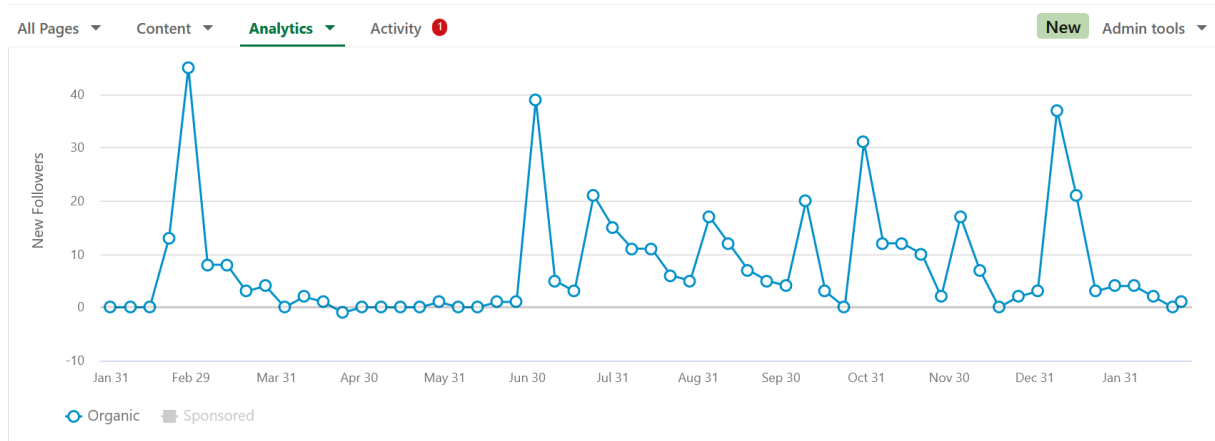


Figure 9 Screenshot of the project’s official LinkedIn page for display the follower’s analytics (last 12 months)

Figure 10 shows LinkedIn followers demographics according to industries as of 27th February 2021.

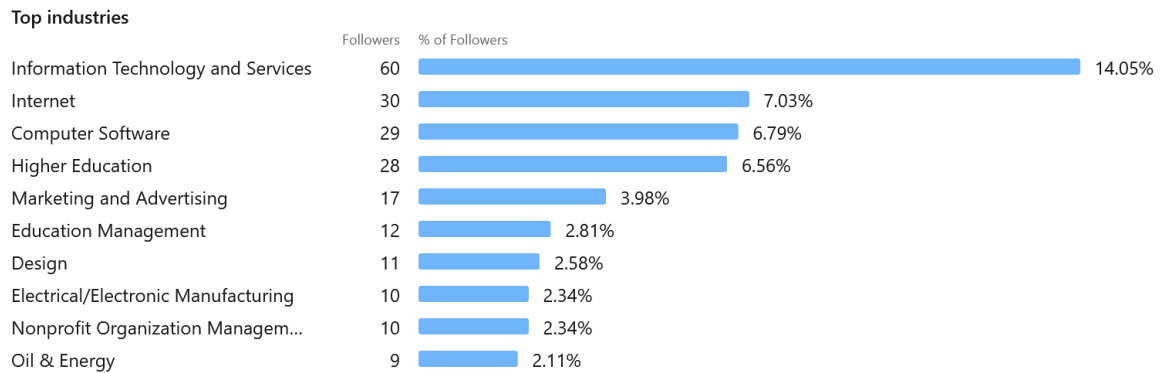


Figure 10 Screenshot of the project’s official LinkedIn page for display the user on industries

Figure 11 shows LinkedIn followers demographics according to job functions as of 27th February 2021.

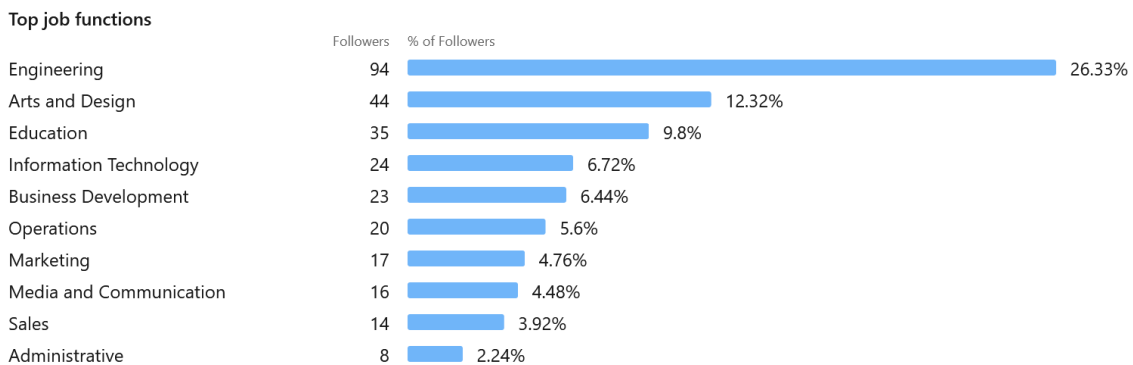













Figure 11 Screenshot of the project’s official LinkedIn page for display sorting of users on job functions




It is evident that the project’s social media pages are attracting a growing interest from specialized people and they are reflecting project’s progress.










2.4.4 List of all published online posts at the project dissemination channels (Website, Facebook and LinkedIn)

In this part, we list all posts that we did in the second year of the project that cover activities done by consortium partners as shown in Table 1.

Table 1: List of online posts covering activities at project dissemination channels (Project Website, Facebook page, and LinkedIn)

Date of activity	Post title	Post links
02.01.2020	Presenting MS@CPS at AT-SGIRES project – Tafila City, Jordan	 https://blogs.uni-siegen.de/ms-cps/2020/01/02/presenting-mscps-at-at-sgires-project-tafila-city-jordan/  https://www.facebook.com/MSCPS.EU/posts/491370991514921  https://www.linkedin.com/feed/update/urn:li:activity:6618456422986448897
06.01.2020	internal workshop at MS@CPS at University of Sfax	 https://blogs.uni-siegen.de/ms-cps/2020/01/06/internal-workshop-at-mscps-at-university-of-sfax/  https://www.facebook.com/MSCPS.EU/posts/494034031248617  https://www.linkedin.com/feed/update/urn:li:activity:6619729892923846656
16.01.2020	MS@CPS project Newsletter	 https://blogs.uni-siegen.de/ms-cps/2020/01/16/mscps-project-newsletter/  https://www.facebook.com/MSCPS.EU/posts/501890293796324  https://www.linkedin.com/feed/update/urn:li:activity:6623495761118273536
17.01.2020	Monitoring visit of Erasmus+ office on Tunisia (USF)	 https://blogs.uni-siegen.de/ms-cps/2020/01/17/monitoring-visit-of-erasmus-office-of-tunisia-usf/  https://www.facebook.com/MSCPS.EU/posts/502934367025250

		 https://www.linkedin.com/feed/update/urn:li:activity:6624016961418469376
22.01.2020	University of Sfax participated in a live radio interview program at "radio Sfax"	 https://blogs.uni-siegen.de/ms-cps/2020/01/22/mscps-project-at-radio-sfax/  https://www.facebook.com/MSCPS.EU/posts/505566580095362  https://www.linkedin.com/feed/update/urn:li:activity:6625741153914499072
27.02.2020	Presenting MS@CPS Briefing Day at PTC	 https://blogs.uni-siegen.de/ms-cps/2020/02/27/567/  https://www.facebook.com/MSCPS.EU/posts/526005548051465  https://www.linkedin.com/feed/update/urn:li:activity:6638808793713123328
17.03.2020	Online meeting MS@CPS consortium	 https://blogs.uni-siegen.de/ms-cps/2020/03/18/onlin-meeting/  https://www.facebook.com/MSCPS.EU/posts/536948053623881  https://www.linkedin.com/feed/update/urn:li:activity:6645786241025617920
2608.2020	MS@CPS open info day	 https://blogs.uni-siegen.de/ms-cps/2020/08/27/mscps-open-info-day-2/  https://www.facebook.com/MSCPS.EU/posts/634013250584027  https://www.linkedin.com/feed/update/urn:li:activity:6704641807520714752

7.9.2020	Virtual Advisory Meeting by the NEO	 https://blogs.uni-siegen.de/ms-cps/2020/09/15/virtual-training-organized-by-the-university-of-hertfordshire/  https://www.facebook.com/MSCPS.EU/posts/641910849794267  https://www.linkedin.com/feed/update/urn:li:activity:6708717230399504387
14.9.2020	A virtual training program of the MS@CPS project by Hertfords hire	 https://blogs.uni-siegen.de/ms-cps/2020/09/15/virtual-training-organized-by-the-university-of-hertfordshire/  https://www.facebook.com/MSCPS.EU/posts/647448735907145  https://www.linkedin.com/feed/update/urn:li:activity:6711646036638658560
3.11.2020	Virtual training program of the MS@CPS project by KTH	 https://blogs.uni-siegen.de/ms-cps/2020/11/09/virtual-training-organized-by-the-kth-royal-institute-of-technology/  https://www.facebook.com/MSCPS.EU/posts/684642355521116  https://www.linkedin.com/feed/update/urn:li:activity:6772073945609879553/

The consortium managed to keep social media outlets active despite the difficult times that the entire world passed through during the COVID-19 pandemic.

2.4.5 Establishing Local websites for guiding students during their admission and study

Project partners established local websites for guiding students during their admission and study. The websites provide necessary information about admission procedures, study plan, offered courses, teaching staff and other important information.

AQU: <https://www.alquds.edu/en/postgraduate/postgraduate-programs-at-faculty-of-science-technology/m-sc-in-computer-science.html>

PTC: <https://www.ptcdb.edu.ps/site/ms-cps/>

GJU: <http://www.gju.edu.jo/content/computer-engineering-1411>

TTU: <http://www.ttu.edu.jo/ipo/index.php/ms-cps>

USF:<http://www.isimsf.rnu.tn/fra/pages/99/RESEARCH-MASTER-OF-SCIENCE-ON-CYBER-PHYSICAL-SYSTEMS>

CU:https://www.facebook.com/ISSATM_International-Master-of-Science-on-Cyber-Physical-Systems-103328141490788/

Figure 12 and Figure 13 show screen shots of the website pages.

HOME

وزارة التعليم العالي والبحث العلمي
جامعة الأقصى وكلية فلسطين التقنية دير البلح

شروط القبول

Edit

1. أن يكون الطالب حاصلاً على درجة البكالوريوس أو ما يعادل هذه الدرجة من جامعة معترف بها، وألا يقل تقديره العام (التراكمي) عن تقدير "جيد" ذلك في أحد التخصصات التالية:

- هندسة الحاسوب .
- هندسة الكهرباء وفروعها تشمل: الاتصالات، التحكم وأنظمة القدرة.
- هندسة الميكاترونكس.
- خريجي كليات علوم الحاسوب.

2. تقديم ما يفيد حصول الطالب على 500 نقطة في امتحان اللغة الانجليزية TOFEL أو اجتياز المقابلة باللغة الانجليزية وأن يجتاز الطالب امتحان القبول والمقابلة الشخصية.

Figure 13 Screenshot of admission requirements page at PTC local website for guiding students in admission process

2.4.6 Newsletters

The second edition of MS@CPS project newsletter is under internal review and it will be published in March 2021. This newsletter highlights the project activities and includes project news, external news, technology article and relevant information. The newsletter will be sent out to the project partners, stakeholder database contacts, and any other interested individuals. The MS@CPS project website, social media pages will publish the newsletter and the collaborative platform will store the newsletters archive. A screenshot of the first page of the newsletter is shown in Figure 14.

NEWSLETTER - "MS@CPS" Issue 2, April 2021



International Master of
Science on Cyber Physical
Systems
"MS@CPS"

6.04.2021

INTERNATIONAL MASTER OF SCIENCE ON CYBER PHYSICAL SYSTEMS IN THIS ISSUE



The International Master of Science on Cyber-Physical Systems (MS@CPS) provides a specialized and unified view of the industry-oriented research field, aiming to prepare the students to be highly skilled analyzer, designers, and developers of both the software and hardware aspects for various industry-related systems and applications in the context of CPS. By enrolling in this program, the students will interact with people from several distinct countries, with diverse cultural backgrounds to promote globalization and technological development based on students' choices and expectations.

The ERASMUS PLUS Key Action 2 (capacity building in higher education) has funded the work reported herein; project reference number: 598750 - EPP-1-2018-1-DE-EPPKA2-CBHE-JP, which is gratefully acknowledged.

Co-funded by the Erasmus+ Programme of the European Union 

For more information please visit:

Website: <https://www.ms-cps.eu>

Facebook: <https://www.facebook.com/MSCPS.EU>

LinkedIn: <https://www.linkedin.com/company/mscps/>

- MS@CPS
- Consortium
- Zoom Meetings
- Workshops
- Events
- News
- Gallery
- Scientific Article on CPS fields

Figure 14 Screenshot of the second issue of the newsletter

2.4.7 Press Releases

The coordinator produces the project press releases in English and partners translate and adjust them to the local contexts for sharing it with appropriate media outlets (trade press, web portals). News of the project are disseminated regularly over the website of each partner. They are issued to ensure that industry, academic staff in the CPS field, policy-making authorities, and the wider community are aware of the project, its objectives and, later in the project, its outcomes. The strategy is intended to ensure that there is publicity and media coverage at local, regional and European levels. PTC and the MS@CPS partners have several existing channels and networks for disseminating news, which will ensure a broad awareness of the project across the spectrum of relevant stakeholders. In the following, the links to the project news and activities from the partners are listed.

General pages

<https://www.researchgate.net/project/International-Master-of-Science-on-Cyber-Physical-Systems-MSPCS>

[http://researchprofiles.herts.ac.uk/portal/en/projects/international-master-of-science-on-cyberphysical-systems-mscps\(5e432f3b-d490-4847-97f5-d600aef7bfc5\).html](http://researchprofiles.herts.ac.uk/portal/en/projects/international-master-of-science-on-cyberphysical-systems-mscps(5e432f3b-d490-4847-97f5-d600aef7bfc5).html)

<https://dspace.alquds.edu/handle/20.500.12213/4654>

<http://www.gju.edu.jo/content/mscps-10098>

2.4.8 Open info day

In this event, project partners are committed to offer open house days regarding the new curriculum in MS@CPS and its outcomes. Staff from other universities and industrial stakeholders were also invited. More details can be found in the D5.2 “Online Publishing Report”.

http://blogs.uni-siegen.de/ms-cps/files/2020/10/D5.2_Online_Publishing_Report.pdf

2.4.9 Other Promotional Material

A promotional video that highlights the project objectives released by PTC and was presented during Palestine’s Erasmus+ open info day. The video is listed at YouTube:

<https://www.youtube.com/watch?v=g1AYhRIZ0vE>

As well, it is posted at project’s Social media pages:

<https://www.facebook.com/MSPCS.EU/posts/694024477916237>

<https://www.linkedin.com/feed/update/urn:li:activity:6735486808450228224>

2.4.10 Events

A number of brokerage events and technology demonstrations and capacity building and training events are outlined in the proposal. Conferences, workshops, seminars will be organised by the MS@CPS project to:

- raise awareness about MS@CPS activities, resources, etc.;
- act as training venues e.g. for disseminating instructional material as required by a particular stakeholding community or communities;
- act as fora for more public discussion of research, development, collections, standards, or other strategic and substantive issues of interest to MS@CPS and the wider community.

To keep the dissemination active through the project channels e.g. website, social media pages, a schedule is set for a monthly event hosted by each partner university and that circulates every six months.

3 Progress in Implantation of Exploitation Plan

3.1 Objective

A trivial exploitation of the outcomes of WP5 is implementing MS@CPS at partner universities, which can be achieved through obtaining the approval of the relevant higher education authorities for each university.

3.2 Conducted procedures in accreditation

To have a successful exploitation of the project results, consortium partner countries agreed to have a common launch of the program in 2020. Partners from Tunisia and Jordan managed to get the accreditation by September 2020. GJU has already a master program in computer engineering so incorporated the CPS master program within it. Partners from Palestine (PTC and AQU), were unable to catch this date. PTC faced accreditation issues that required accrediting the program through a cooperation agreement with a local university in Gaza. The choice to cooperate with Al-Aqsa university is because it is the only governmental university in the Gaza Strip same as PTC and both belong to the ministry of higher education and scientific research. AQU's accreditation was delayed because on internal required approvals that took longer to be achieved. The accreditation application was submitted by Palestinian partners and the start of teaching is going to in September 2021 in Palestine.

Table 2, Table 3 and Table 4 present the status of accreditation in partner countries' universities.

Palestine

Table 2: Progress in actions for accreditation in Palestine

Action	Progress (PTC)	Progress (AQU)
<ul style="list-style-type: none"> Accreditation application 	Accepted (Jointly with Al-Aqsa University – Gaza)	The program is offered as a track of a master program in computer science.
<ul style="list-style-type: none"> Program start 	September 2021	September 2021

Jordan

Table 3: Progress in actions for accreditation in Jordan

Action	Progress (GJU)	Progress (TTU)
<ul style="list-style-type: none"> Accreditation 	The program is offered as a track of a master program in computer Eng.	Achieved
<ul style="list-style-type: none"> Program start 	September 2020	September 2020

Tunisia

Table 4: Progress in actions for accreditation in Tunisia

Action	Progress (USF)	Progress (CU)
• Accreditation	Achieved	Achieved
• Program start	September 2020	September 2020

3.3 Progress in running the first round of MS@CPS

The scheduled dates for running the first round jointly at the same time is set in September 2020. This schedule is based on the EU recommendations to start the program before the last year of the project. The consortium partners from Jordan and Tunisia managed to get accreditation in 2020. A follow-up questionnaire is conducted among partners to collect information about running the first year of the master program. A separate report that summarizes the delivery of the first run is under preparation and here we report about internal communications to get the results.

D 5.5 Delivery of the first run of the MSc program

وصف النموذج

*** عنوان البريد الإلكتروني**

عنوان بريد إلكتروني صالح

يجمع هذا النموذج عناوين البريد الإلكتروني. تغيّر الإعدادات

*** 1. University Name (إسم الجامعة)**

نص الإجابة القصير

*** 2. Name of the applicant (إسم مقدم الطلب)**

* 1. University Name (إسم الجامعة)

نص الإجابة القصير

* 2. Name of the applicant (إسم مقدم الطلب)

نص الإجابة القصير

* 3. Number of students who applied to join the program (عدد الطلبة الذين قدموا طلبات لإلتحاق بالبرنامج)

نص الإجابة القصير

4. number of students admitted in the program (عدد الطلبة الذين حصلوا على القبول لإلتحاق في البرنامج)

نص الإجابة القصير

...

4. number of students admitted in the program (عدد الطلبة الذين حصلوا على القبول لإلتحاق في البرنامج)

نص الإجابة القصير

* 5. Number of students who enrolled in the program (عدد الطلبة الذين التحقوا وتم البدء في الدراسة بالفعل في البرنامج)

نص الإجابة القصير

* 6. Scientific disciplines for enrolled students (التخصصات العلمية للطلبة الملتحقين)

نص الإجابة الطويلة

* 7. Number of courses offered during the first semester (عدد المساقات المطروحة خلال الفصل الأول)

نص الإجابة القصير

⋮

* 8. Titles of the courses that were offered during the first semester (أسماء المساقات المطروحة خلال الفصل الأول)
نص الإجابة القصير

* 9. Please, upload the file description of the courses offered during the first semester (من فضلك، قم بتحميل ملف لوصف المساقات الذي يتم تدريسها خلال الفصل الأول)
إضافة ملف

* 10. Number of lecturers in the first semester (عدد المحاضرين في الفصل الأول)
نص الإجابة القصير

* 11. Names of the lecturers in the first semester with their academic ranks (أسماء المحاضرين في الفصل الأول مع الدرجات العلمية)

* 10. Number of lecturers in the first semester (عدد المحاضرين في الفصل الأول)
نص الإجابة القصير

* 11. Names of the lecturers in the first semester with their academic ranks (أسماء المحاضرين في الفصل الأول مع الدرجات العلمية)
نص الإجابة الطويلة

* 12. Please, upload photos of teaching and laboratories within the university (من فضلك، قم بتحميل صور للتدريس والمختبرات للبرامج بداخل الجامعة)
إضافة ملف

Second follow-up questionnaire has the following link:

<https://forms.gle/EApHeFJkQQvPpehs8>