



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



International Master of Science on Cyber Physical Systems

DISSEMINATION AND EXPLOITATION REPORT D5.6

Project Acronym	MS@CPS	Project Number	598750-EPP-1-2018-1-DE-EPPKA2-CBHE-JP
Date	14.04.2022	Deliverable No.	5.6 (3 rd year report)
Contact Person	Ezzaldeen Edwan	Organisation	PTC
Phone	+970595189775	E-Mail	ezedwan@ptcdb.edu.ps
Version	1.0	Confidentiality level	Public



Version History

Version No.	Date	Change	Editor(s)
1.0	9/5/2022	Initial draft	Ezzaldeen Edwan

Contributors

Name	Organization
Ezzaldeen Edwan	PTC
Asmaa Shaheen	PTC

Disclaimer

This project has been funded with support from the European Commission. This publication reflects the views only of the author(s), and the Commission cannot be held responsible for any use which may be made of the information contained therein.

Table of Contents

Version History	2
Contributors	2
Disclaimer	2
Table of Contents	3
1 Introduction.....	4
1.1 Abstract	4
1.2 The scope of the document.....	4
1.3 Objective.....	4
1.4 Terminology.....	4
1.5 MS@CPS Stakeholders	5
1.6 Relation to other deliverables.....	5
1.7 Relation to work packages	5
2 Progress in Implementation of Dissemination Plan	5
2.1 Objective.....	5
2.2 Target audience.....	5
2.3 Dissemination documents.....	6
2.3.1 Layout of the documents	6
2.3.2 Text-based information: flyers, posters, policy briefs, policy recommendations.....	6
2.4 Progress at the dissemination tools	7
2.4.1 Progress in Electronic mailing lists and contact list.....	7
2.4.2 Progress at the website	7
2.4.3 Collaborative platform	8
2.4.4 Progress at social media pages.....	8
2.4.5 List of all published online posts at the project dissemination channels (Website, Facebook and LinkedIn).....	12
2.4.6 Establishing Local websites for guiding students during their admission and study	16
2.4.7 Newsletters	18
2.4.8 Press Releases	19
2.4.9 Events	19
2.5 Participation in regional Erasmus+ info days and Erasmus+ events	19
2.5.1 Palestine	19
2.5.2 Tunisia.....	20
3 Progress in Implantation of Exploitation Plan.....	22
3.1 Objective.....	22

3.2	Accreditation status	22
3.3	Progress in running the first round of MS@CPS	22

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 third year of the Erasmus+ MS@CPS project. The dissemination activities during the third year focused on updating the project's website, and social media pages, establishing local websites for guiding students, holding workshops and issuing the third 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 third year of the Erasmus+ MS@CPS project.

1.3 Objective

The objective of the third year MS@CPS Dissemination and Exploitation Report (DER) is to report about organised activities during the third 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 WP5 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.

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 third edition of the DER reports the progress in dissemination and exploitation activities during the third 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 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, rollups 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 third year several posters, rollups, brochures were designed and printed for the project events. Examples of the design are shown in Figure 1 and Figure 2 for the meeting which was organized by Tafila Technical University (TTU). The designs are printed at partner institutions and distributed at the venue of the held activities.

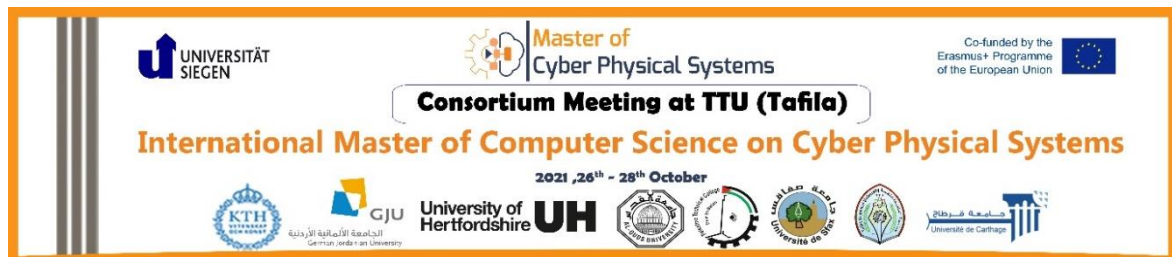


Figure 1 Poster design for Consortium Meeting and Training organized by Tafila Technical University (TTU)

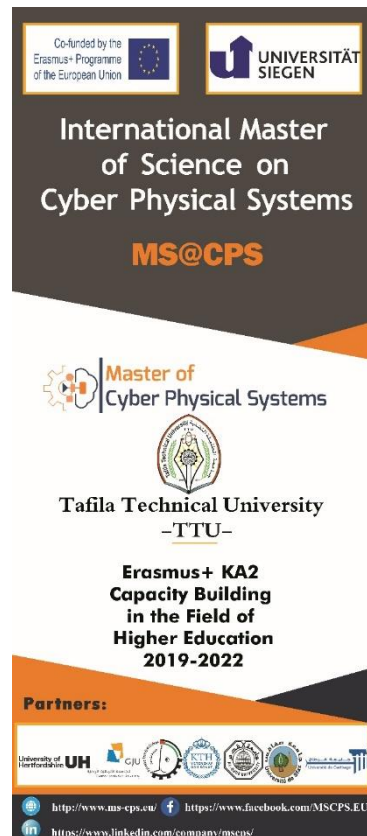


Figure 2 Rollup design for Consortium Meeting and Training organized by Tafila Technical University (TTU)

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 changed to: erasmus_msmps@listserv.dfn.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. Workshops, face to face meetings, monthly teleconference meetings and project news are covered within the project website. A screenshot of the main page of the official project website is presented in Figure 3. The main page header is updated with the logo of the new added partner of Alaqa University.



Figure 3 Screenshot of the official project website

2.4.3 Collaborative platform

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.

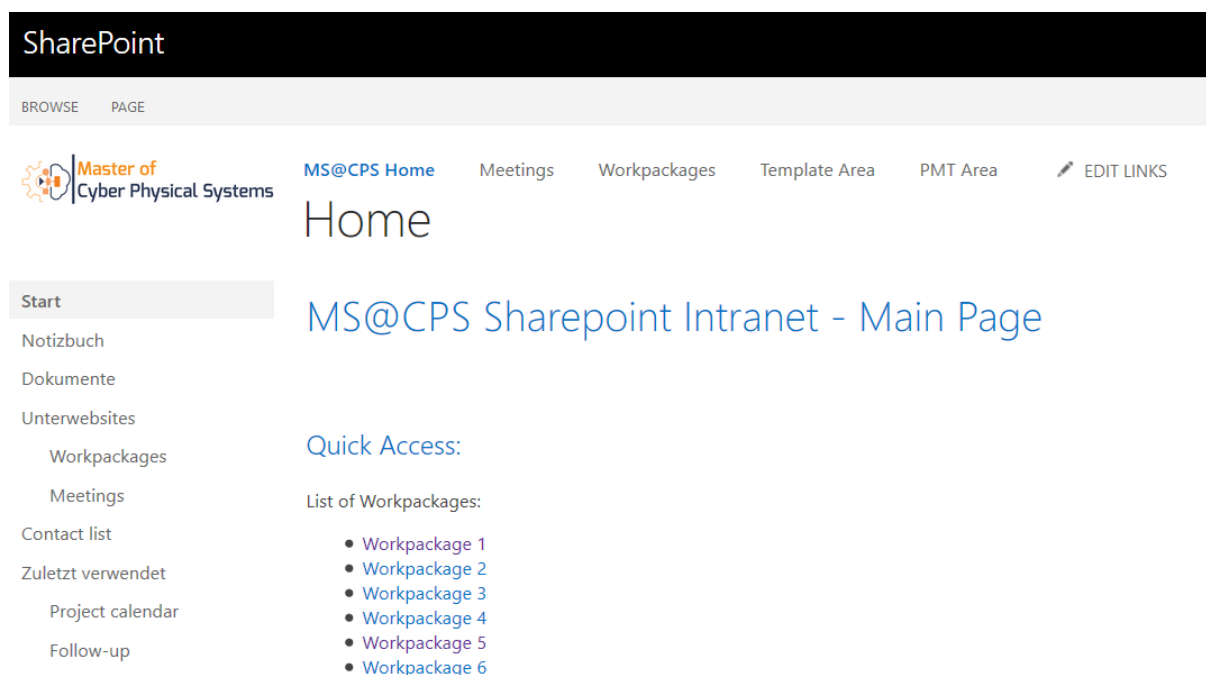


Figure 4 Screenshot of SharePoint Platform

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

2.4.4 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 1122 followers which is a significant increase from last year figure of 787 followers and the LinkedIn page reached 490 followers, an increase from

last year figure of 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. They are updated with the logo of Alaqa University.



Figure 5 Screenshot of the project's official Facebook page



Figure 6 Screenshot of the project's official LinkedIn page

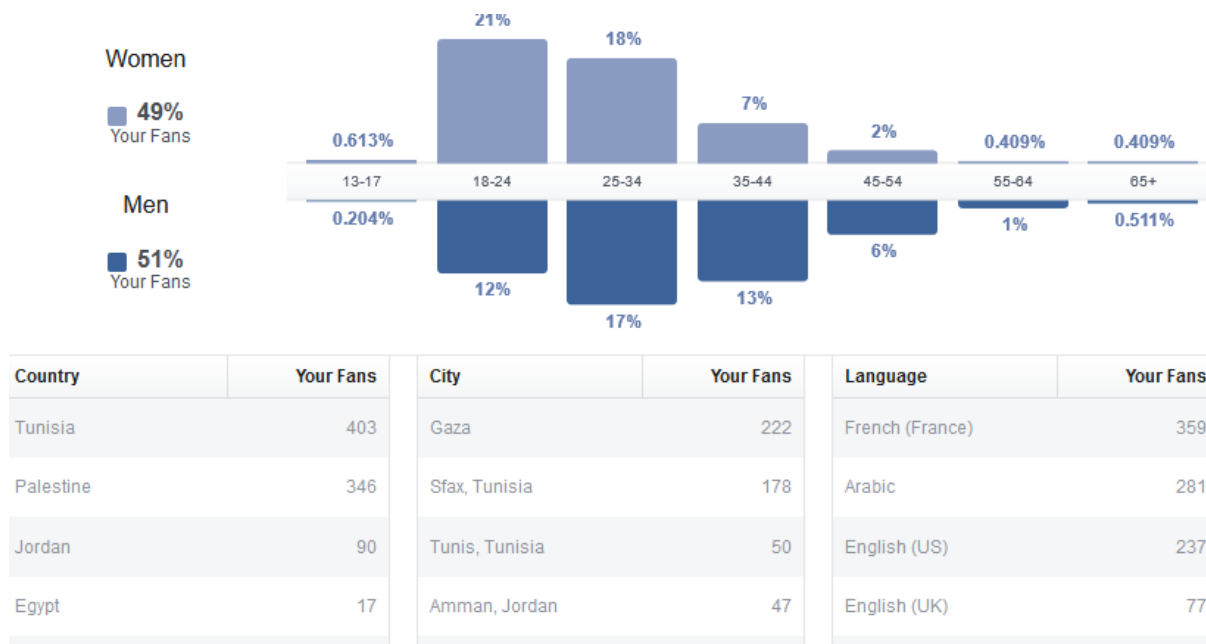


Figure 7 Screenshot of recent insights about followers of the Facebook page.

Figure 7 **Error! Reference source not found.** 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 **Error! Reference source not found.** 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 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 9th Mar 2022.

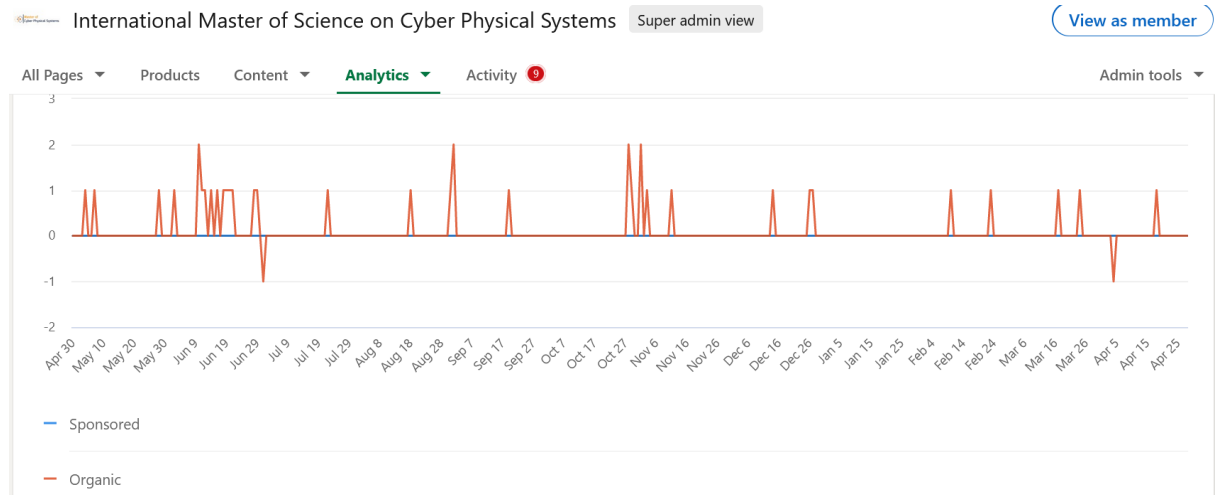


Figure 9 Screenshot of the project's official LinkedIn page showing follower's analytics in the past 12 months

Figure 10 shows LinkedIn followers demographics according to industries as of 30th April 2021.

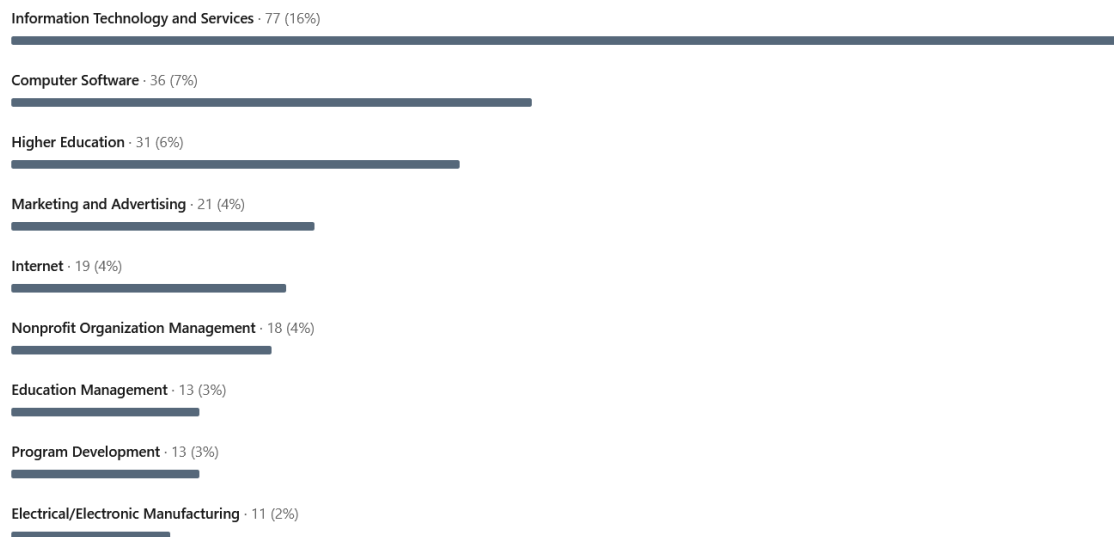


Figure 10 Screenshot of the project's official LinkedIn page for display the user on industries

Figure 11 shows LinkedIn followers demographics according to job functions as of 27th February 2022.

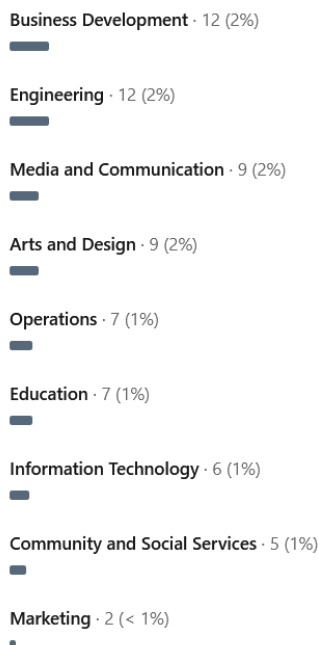








Figure 11 Screenshot of the project's official LinkedIn page for display sorting of users on job functions















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.









2.4.5 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
17.3.2022	Consortium meeting on the University of Carthage (CU)	 https://blogs.uni-siegen.de/ms-cps/2022/03/17/1094/  https://www.facebook.com/MSCPs.EU/posts/968033127182036  https://www.linkedin.com/posts/mscps_as-part-of-its-activities-to-promote-and-activity-6907414104425021440-3
17.3.2022	Experience of students at University of Carthage (CU) at Bizerte, Tunisia during f2f	 https://blogs.uni-siegen.de/ms-cps/2022/03/16/1088/  https://www.facebook.com/MSCPs.EU/posts/967992493852766  https://www.linkedin.com/feed/update/urn:li:activity:6910153576400998401

	meeting of the MS@CPS Project	
16.03.2022	Discussing recommendations and feedback from evaluators at Carthage meeting	 https://blogs.uni-siegen.de/ms-cps/2022/03/16/1088/  https://www.facebook.com/MSCPS.EU/posts/967545433897472  https://www.linkedin.com/feed/update/urn:li:activity:6909886508871114752
16.3.2022	Discussing WP5 progress at the MS@CPS Project consortium at Carthage	 https://blogs.uni-siegen.de/ms-cps/2022/03/16/1088/  https://www.facebook.com/MSCPS.EU/posts/967514523900563  https://www.linkedin.com/feed/update/urn:li:activity:6909886186350125057
16.03.2022	Planning of the meeting at KTH Scheduled in the end of May 2022	 https://blogs.uni-siegen.de/ms-cps/2022/03/16/1088/  https://www.facebook.com/MSCPS.EU/posts/967468143905201  https://www.linkedin.com/feed/update/urn:li:activity:6909885543543668736
16.03.2022	summary of admission policies for the cyber physical systems	 https://blogs.uni-siegen.de/ms-cps/2022/03/16/1083/  https://www.facebook.com/MSCPS.EU/posts/967447313907284  https://www.linkedin.com/feed/update/urn:li:activity:6909885307693744128
16.3.2022	MS@CPS project consortium	 https://blogs.uni-siegen.de/ms-cps/2022/03/16/1077/  https://www.facebook.com/MSCPS.EU/posts/967427397242609

		 https://www.linkedin.com/feed/update/urn:li:activity:6909885066147987456
15.3.2022	Face-to-face meeting at the Carthage University	 https://blogs.uni-siegen.de/ms-cps/2022/03/16/1088/  https://www.facebook.com/MSCPS.EU/posts/966843170634365  https://www.linkedin.com/feed/update/urn:li:activity:6909884712400400384
11.01.2022	National Erasmus + Tunisia office	 https://blogs.uni-siegen.de/ms-cps/2022/03/16/1071/  https://www.facebook.com/MSCPS.EU/posts/930680094250673  https://www.linkedin.com/feed/update/urn:li:activity:6907414104425021440
04.01.2022	Monitoring meeting at Tunisa	 https://blogs.uni-siegen.de/ms-cps/2022/03/15/f2f-meeting-at-carthage-university/  https://www.facebook.com/MSCPS.EU/posts/926415538010462  https://www.linkedin.com/feed/update/urn:li:activity:6907414588535783425
20.12.2021	Consortium meeting at the university of Siegen	 https://blogs.uni-siegen.de/ms-cps/2022/03/15/f2f-meeting-at-university-of-siegen/  https://www.facebook.com/MSCPS.EU/posts/918097155508967  https://www.linkedin.com/feed/update/urn:li:activity:6876459781641572353
18.12.2021	F2f meeting of the University of Siegen (USI)	 https://blogs.uni-siegen.de/ms-cps/2022/03/15/f2f-meeting-at-university-of-siegen/  https://www.facebook.com/MSCPS.EU/posts/916733115645371

		 https://www.linkedin.com/feed/update/urn:li:activity:6876459781641572353
15.12.2021	F2f meeting of the University of Siegen (USI)	 https://blogs.uni-siegen.de/ms-cps/2022/03/15/f2f-meeting-at-university-of-siegen/  https://www.facebook.com/MSCPS.EU/posts/916431279008888  https://www.linkedin.com/feed/update/urn:li:activity:6876459781641572353
14.12.2021	Covering f2f meeting of the University of Siegen (USI)	 https://blogs.uni-siegen.de/ms-cps/2022/03/15/f2f-meeting-at-university-of-siegen/  https://www.facebook.com/MSCPS.EU/posts/915694369082579  https://www.linkedin.com/feed/update/urn:li:activity:6876459781641572353
28.10.2021	Covering f2f meeting of the Tafil Technical University (TTU)	 https://blogs.uni-siegen.de/ms-cps/2021/10/27/f2f-meeting-at-tafila-technical-university/  https://www.facebook.com/MSCPS.EU/posts/888739885111361  https://www.linkedin.com/feed/update/urn:li:activity:6859970500836306944
08.09.2021	Covering the field visit of Dr. Nedal Jayousi to Palestine Technical College - Deir El Balah	 https://blogs.uni-siegen.de/ms-cps/2022/03/16/1088/  https://www.facebook.com/MSCPS.EU/posts/85801781485023  https://www.linkedin.com/feed/update/urn:li:activity:6808703020528910336
26.08.2021	Covering news from	 https://blogs.uni-siegen.de/ms-cps/2021/06/10/accredited-program-at-ptc/

	University of Sfax of holding a meeting	 https://www.facebook.com/MSPCS.EU/posts/850260942292589  https://www.linkedin.com/feed/update/urn:li:activity:6808703020528910336
09.06.2021	Accrediting the master CPS program at Palestine Technical College - Deir El-Balah	 https://blogs.uni-siegen.de/ms-cps/2021/06/10/accredited-program-at-ptc/  https://www.facebook.com/MSPCS.EU/posts/805289086789775  https://www.linkedin.com/feed/update/urn:li:activity:6808703020528910336
06.04.2021	Publishing the second issue of MS@CPS project Newsletter	 https://blogs.uni-siegen.de/ms-cps/2021/04/06/mscps-project-2nd-edition-of-newsletter/  https://www.facebook.com/MSPCS.EU/posts/770578723594145  https://www.linkedin.com/feed/update/urn:li:activity:6922863382161170432
02.04.2021	A short video about the MS@CPS project at PTC	 https://blogs.uni-siegen.de/ms-cps/2021/04/06/mscps-project-2nd-edition-of-newsletter/  https://www.facebook.com/MSPCS.EU/posts/768598900458794  https://www.linkedin.com/feed/update/urn:li:activity:6922862481497284608

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

2.4.6 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 at PTC.



Figure 12 Screenshot of PTC local website for guiding students in admission process



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

2.4.7 Newsletters

The third edition of MS@CPS project newsletter is under internal review and it will be published in March 2022. 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.



Figure 14 Screenshot of the second issue of the newsletter

2.4.8 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-MSCPS>

[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>

2.4.9 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 stockholding 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.

2.5 Participation in regional Erasmus+ info days and Erasmus+ events

2.5.1 Palestine

On the 7th of September 2021, NEO Palestine Director Dr. Nedal Jayousi field visit the Palestine Technical College - Deir El Balah in a series of visits for Gaza Higher institutions, Dr. Jayousi was warmly greeted by the Rector of PTC dean Dr. Haitham Ayesh. Dr. Haitham Ayesh expressed that it is a great pleasure to have Dr. Jayousi at PTC, stressing that Erasmus+ projects are distinguished and add tremendous value to higher education. After the opening of a session, Dr. Nedal Jayousi announcing that the upcoming call for Erasmus+ projects will be open at the end of October 2021. Dr. Jayousi pointed out that the overall project budget will increase this year. Dr. Jayousi also provided brief instructions on proposal writing and submitting procedures, encouraging the college to participate actively in the new call and he promised to support PTC in this field. Firstly, Mr. Ahmed Agha introduced a brief history of PTC and statics that show the number of projects. Following the information session, CBHE projects coordinators had the floor to conduct presentations regarding the progress and outcomes of various projects. Dr Ezzaldeen Edwan, the Director of the CBHE project: "Edu4All," talked

about the main accomplishments of the program. Dr. Marwan Jalmba, the Director of the ECNAD project, conducted a brief presentation on the progress of the project. Dr. Ezzaldeen Edwan, the Director of the "International Master of Science on Cyber-Physical Systems" project, provided a brief introduction and progress of the project, then talked about the cooperation with AL- AQSA university in the teaching master program. At the end of the visit, Dr. Nedal Jayousi be surprised with the readiness of the college for this visit and the level of progress for these projects inside the college.



Figure 15 Pictures from the visit of the director of the NEO Palestine to PTC

2.5.2 Tunisia

As part of its activities to promote and evaluate Erasmus + projects, the National Erasmus + Tunisia office organized a seminar titled: "Erasmus+ 2015-2020: Impact of CBHE projects in Tunisia" on January 11, 2022, at the City of Sciences in Tunis in the presence of the Minister of Higher Education and Scientific Research of Tunisia and the Ambassador of the European Union in Tunisia. The Erasmus + MS@CPS project was represented by the University of Carthage team: Dr. Bchira ben Mabrouk, Dr. Haykel Ben Frej, and Dr. Walid Barhoumi.



Figure 16 Pictures from the participation of the University of Carthage in Erasmus+ event

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 Accreditation status

All partners got accreditation status as explained in second year report of D5.6.

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. The consortium partners from Jordan and Tunisia managed to get accreditation in 2020. Palestinian partners launched the master program in September 2021 due to a delay in getting accreditation. PTC and Alaqsa university offer the program through a joint cooperation.

<https://www.ptcdb.edu.ps/ar/%D8%A7%D8%B9%D8%AA%D9%85%D8%A7%D8%AF-%D8%A8%D8%B1%D9%86%D8%A7%D9%85%D8%AC-%D9%85%D8%A7%D8%AC%D8%B3%D8%AA%D9%8A%D8%B1-%D8%A7%D9%84%D9%86%D8%B8%D9%85-%D8%A7%D9%84%D8%B3%D9%8A%D8%A8%D8%B1-%D9%85%D8%A7/>

<https://www.alaqsa.edu.ps/ar/newsdetail/4513/8832/%D8%AC%D8%A7%D9%85%D8%B9%D8%A9-%D8%A7%D9%84%D8%A3%D9%82%D8%B5%D9%89-%D8%A7%D8%B9%D8%AA%D9%85%D8%A7%D8%AF-%D8%A8%D8%B1%D9%86%D8%A7%D9%85%D8%AC-%D9%85%D8%A7%D8%AC%D8%B3%D8%AA%D9%8A%D8%B1-%D8%A7%D9%84%D8%A3%D9%86%D8%B8%D9%85%D8%A9-%D8%A7%D9%84%D8%B3%D8%A7%D9%8A%D8%A8%D8%B1-%D9%85%D8%A7%D8%AF%D9%8A%D8%A9>