

WP 5 - Dissemination and Exploitation of Project Results

Outcome 5.4 - Publications in professional journals, newspapers, magazines, brochures, and social media

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1.Executive Summary

Task 5.4 in the MSIE4.0 project is about publications in professional journals, newspapers, magazines, brochures, and social media. These dissemination materials were developed with the objective to enhance visibility and attention focus towards the new MSIE4.0 curriculum and technologies used in Industry 4.0. To meet the requirements, the expected results of this task are to publish the publications in professional journals, newspapers, magazines, brochures, and social media at least 18 publications by M36 by all partners. From the information in the project database, 38 publications were published in various sources which are 2 publications published in the professional and scientific journals, 35 publications published in scientific or academic conferences (31 full articles and 4 published abstracts), and one article published to newspapers and magazines. All partners have contributed publishing regularly. Therefore, we can conclude that Task 5.4 was evaluated to beyond the target. The impacts of publishing the publications in professional journals, newspapers, magazines, brochures, and social media can (1) enhance project visibility, awareness, in particular with the students, technical universities and industrial companies, of the new curriculum developed within the MSIE4.0 project awareness of the technological progress introduced by Industry 4.0, (2) involve the target groups in the project's activities, (3) enhance attention focused towards the introduction of Industry related concepts and principles in the higher education, and (4) enhance knowledge gained and shared with professionals of the sustainable network between project partners and industrial enterprises.

2. Introduction

Since the impact of the MSIE4.0 project will be mainly on the improvement of teachers trained in developing innovative curriculum, it is expected that the curriculum can potentially be disseminated to other universities in the region. They can adopt the entire curriculum or make some modifications to fit with their specific requirements. In order to achieve the above target, dissemination and exploitation are required in this project. For dissemination purpose, a dissemination plan which consists of the project results to be disseminated, target groups of disseminations, time sequence of activities, dissemination materials, dissemination channels, dissemination conference were developed. Besides direct dissemination means, the project results were also disseminated through publications in professional journals, newspapers, magazines, social media. In this report, publications in professional journals, newspapers, magazines and brochures, social media of the project are presented in Section 3, and conclusion is given in Section 4.

3. Publications in professional journals, newspapers, magazines and brochures, social media

In this project, the consortium members have published publications in order to disseminate the project outcomes achieved at each time period. At the end of the project, there are 38 publications published in various sources, which are professional and scientific journals, scientific or academic conferences, and the articles to newspapers and magazines. Details of the publications in professional journals, newspapers, magazines and brochures, social media published of the project are presented as follows.

3.1 Publications in professional journals

Considering types of publications, 2 publications were published in the professional and scientific journals, 35 publications were published in scientific or academic conferences, and one article was published to newspapers and magazines (see Figure 1). For the publications published in scientific or academic conferences, they were divided into 31 full papers and 4 published abstracts. Details are summarized in Table 1 and Table 2, respectively. From Figure 1, we can see that that the highest number is the publications published in scientific or academic conferences (35 papers or 92 % of the total), the second highest number is the publications in peer-reviewed journals which is 2 (or 5.4 %). However, there is one article published in a magazine. From the publication data listed in Tables 1 and 2, they were published every year from 2018 to 2020 (see Figure 2). We can see that all publications produced under the MSIE4.0 project are strongly encouraged the high visibility of the project and validation of the high standards.

Table 1. Full papers published from 2018-2020

No.	Title	Published Date	Publisher	By Partner	Authors	Reference
1	Embedding Memorable Experience to Customer Journey	Aug 25 th , 2018	APMS: IFIP International Conference on Advances in Production Management Systems	AIT	Duangthida Hussadintorn Na Ayutthaya and Pisut Koomsap	Hussadintorn Na Ayutthaya, D., & Koomsap, P. (2018, August). Embedding Memorable Experience to Customer Journey. In IFIP International Conference on Advances in Production Management Systems (pp. 222-229). Springer, Cham.
2	The Quality of Education on Workplace Safety	Dec 12-14th, 2018	7th International Conference SYSTEM SAFETY:	CUT, AIT,	Tomasz Nitkiewicz	https://msie4.ait.ac.th/wp-

No.	Title	Published Date	Publisher	By Partner	Authors	Reference
	Master Studies -The Issue of Teaching Methods		HUMAN – TECHNICAL FACILITY – ENVIRONMENT CzOTO 2018	UMinho CMU	Duangthida Hussadintorn Na Ayutthaya Pisut Koomsap Rui M. Lima Wichai Chattinnawat	content/uploads/sites/5/2019/04/QPI-2018_photo.pdf
3	Sustainable Development in Accordance with the Concept of Industry 4.0 on the Example of the Furniture Industry	2018.	MATEC Web Conference Volume 183, 2018 12th International Conference Quality Production Improvement – QPI 2018	CUT	Anna Wiśniewska-Sałek	Wiśniewska-Sałek, A. (2018). Sustainable Development in Accordance with the Concept of Industry 4.0 on the Example of the Furniture Industry. In MATEC Web of Conferences (Vol. 183, p. 04005). EDP Sciences.
4	Identifying Key Criteria in Development of Industrial Engineering Education	2018	MATEC Web of Conferences Vol. 183, QPI, 2018	CUT	Tomasz Nitkiewicz and Zuhail Ayen	Nitkiewicz, T., & Ayen, Z. (2018). Identifying key criteria



No.	Title	Published Date	Publisher	By Partner	Authors	Reference
						in development of Industrial Engineering education. In MATEC Web of Conferences (Vol. 183, p. 04008). EDP Sciences. DOI: 10.1051/mat econf/2018 18304008
5	THE EFFECT OF LEAN TOOLS ON THE SAFETY LEVEL IN MANUFACTURING ORGANISATIONS, Zakopane, Poland, Dec 12-14th, 2018	Dec 12-14th, 2018	7th International Conference SYSTEM SAFETY: HUMAN – TECHNICAL FACILITY – ENVIRONMENT CzOTO, Zakopane, Poland, Dec 12-14th, 2018	CUT	Robert Ulewicz	https://msie4.ait.ac.th/wp-content/uploads/sites/5/2019/04/CzOTO-2018_photo.pdf
6	Knowledge Management – Education in the Light of Industry 4.0	Dec 12-14th, 2018	7th International Conference SYSTEM SAFETY: HUMAN – TECHNICAL FACILITY – ENVIRONMENT CzOTO, Zakopane, Poland,	CUT	Anna Wiśniewska-Sałek	Wiśniewska-Sałek, A. (2019). Knowledge Management –Education in the Light of Industry 4.0. System Safety: Human-

No.	Title	Published Date	Publisher	By Partner	Authors	Reference
						Technical Facility-Environment , 1(1), 969-977.
7	LOVE-Based Teaching and Learning Method Classification	March 11-13, 2019 by	The 13th annual International Technology, Education and Development Conference, INTED2019 Valencia, Spain,	AIT	Duangthida Hussadintorn Na Ayutthaya and Pisut Koomsap	Hussadintorn Na Ayutthaya, D., & Koomsap, P. (2019). LOVE-Based Teaching and Learning Method Classification . In To be appeared in Proceedings of INTED2019 Conference 11th-13th March.
8	Learning Experience from Teaching and Learning Methods in Engineering Education: Instructors' Viewpoint	March 11-13, 2019	The 13th annual International Technology, Education and Development Conference, INTED2019 Valencia, Spain,	AIT, UMinho CUT	Duangthida Hussadintorn Na Ayutthaya, Pisut Koomsap, Rui M. Lima and Tomasz Nitkiewicz	Hussadintorn Na Ayutthaya, D., Koomsap, P., Lima, R. M., & Nitkiewicz, T. (2019). Learning experience from teaching and learning



No.	Title	Published Date	Publisher	By Partner	Authors	Reference
						methods in engineering education: instructors' viewpoint. In 13th International Technology, Education and Development Conference (INTED), Valencia, Spain.
9	Quality of educational services – industry 4.0 requirements	March 20-22, 2019	20th International Symposium on Quality Pula, Croatia,	CUT, KCU	Robert Ulewicz and Kanchana Sethanan	Ulewicz, R., & Sethanan, K. (2019). Quality of Educational Services– Industry 4.0 Requirements. Kvaliteta Obrazovnih Usluga- Zahtjevi, 4, 137-149.
10*	The Effect of Lean Tools on the Safety Level in Manufacturing Organisations	March 25, 2019	7th International Conference System Safety: Human - Technical Facility - Environment (CzOTO 2018), Zakopane, Polska (12 do 14 grudnia	CUT, UPB	Robert Ulewicz and Livia V. Lazar	Ulewicz, R., & Lazar, L. V. (2019). The Effect of Lean Tools on the Safety Level in Manufacturing

No.	Title	Published Date	Publisher	By Partner	Authors	Reference
			2018 r.) 1(1), 514-521.			Organisation s. System Safety: Human-Technical Facility-Environment , 1(1), 514-521.
11	Course Design and Development: Focus on Student Learning Experience	June 10-12, 2019	PAEE/ALE' 2019, Hammamet, Tunisia,	AIT, CUT, UMinho	Pisut Koomsap, Duangthida Hussadintorn Na Ayutthaya, Na Ayutthaya, Tomasz Nitkiewicz, Rui M. Lima, and Huynh Trung Luong	Koomsap, P., Hussadintorn Na Ayutthaya, D., Nitkiewicz, T., Lima, R. M., & Luong, H. T. (2019). Course design and development : Focus on student learning experience.
12	Curriculum Analysis Process: analysing Industrial Engineering programs	June 10-12, 2019	PAEE/ALE' 2019 Hammamet, Tunisia,	UMinho	Rui M. Lima, Diana Mesquita, Rui M. Sousa, M. Teresa T. Monteiro, and Jorge S. Cunha	Lima, R. M., Mesquita, D., Sousa, R. M., Monteiro, M. T. T., & Cunha, J. (2019). Curriculum analysis process: Analysing fourteen



No.	Title	Published Date	Publisher	By Partner	Authors	Reference
						industrial engineering programs.
13	Roles of MSIE Graduates to Support Thailand Sustainable Smart Industry, 26th ISTE International Conference on Transdisciplinary Engineering,	30 July – 2 August, 2019	TE 2019 Kashiwa Campus, The University of Tokyo, Japan	AIT, UMinho, CUT, CMU	Pisut Koomsap, Huynh Trung Luong, Rui M. Lima, Tomasz Nitkiewicz, Wichai Chattinnawat, and Duangthida Hussadintorn Na Ayutthaya	Koomsap, P., Luong, H. T., Lima, R. M., Nitkiewicz, T., Chattinnawat, W., & Hussadintorn Na Ayutthaya, D. (2019, November). Roles of MSIE Graduates to Support Thailand Sustainable Smart Industry. In Transdisciplinary Engineering for Complex Socio-technical Systems: Proceedings of the 26th ISTE International Conference on Transdisciplinary

No.	Title	Published Date	Publisher	By Partner	Authors	Reference
						Engineering, July 30–August 1, 2019 (Vol. 10, p. 75). IOS Press.
14	Industry 4.0 Competencies' Gap Analysis.	24-26 June 2019	Industry 4.0 Conference, Bulgaria.	UPB, CMU	Andrei Dumitrescu, Rui M. Lima, Wichai Chattinnawat, Tom Savu	Dumitrescu, A., Lima, R., Chattinnawat, W., & Savu, T. (2019). Industry 4.0 competencies' gap analysis. Industry 4.0, 4(3), 138-141.
15*	THE CHALLENGES OF INDUSTRY 4.0 FOR SMALL AND MEDIUM ENTERPRISES IN POLAND AND SLOVAKIA	June 2019	Quality Production Improvement, volume 1, issue 1 pp. 147-154.	CUT, KCU	Robert Ulewicz, Franitisek Novy, and Kanchana Sethanan	Ulewicz, R., Novy, F., & Sethanan, K. (2019). The challenges of industry 4.0 for small and medium enterprises in Poland and Slovakia. Quality Production Improvement-QPI, 1(1), 147-154.

No.	Title	Published Date	Publisher	By Partner	Authors	Reference
						DOI: 10.2478/cqpi-2019-0020.
16	Spotkanie w ramach projektu MSIE 4.0 programu CBHE-KA2 Erasmus+	July 2019	Politechnika Częstochowska. Pismo środowiska akademickiego (eng. Czestochowa University of Technology. A journal of the academic environment.)	CUT	CUT members	Magazine
17	Experience with the Accreditation of Technical Studies in Poland and Thailand's	August 26-28, 2020	PAEE/ALE 2020 CONFERENCE (Full paper)	CUT, KCU	Robert Ulewicz and Kanchana Sethanan	https://msie4.ait.ac.th/wp-content/uploads/sites/5/2019/04/PAEE_ALE_2020_PROCEEDING_S.pdf
18	Design of a New Workstation in a Productive Process: Importance of Multidisciplinary Integration	August 26-28, 2020	PAEE/ALE 2020 CONFERENCE (Full paper)	UMinho	Ana C. Pedrosa, Marta C. Simões, Miguel A. Mendes, Paulo J. Martins, and Rui M. Sousa	https://msie4.ait.ac.th/wp-content/uploads/sites/5/2019/04/PAEE_ALE_2020_PROCEEDING_S.pdf

No.	Title	Published Date	Publisher	By Partner	Authors	Reference
19	Students Feedback on the Forced Transition to Online Classroom During Covid-19	August 26-28, 2020	PAEE/ALE 2020 CONFERENCE (Full paper)	TU	Parichat Chuenwatanakul, Anintaya Khamkanya	https://msie4.ait.ac.th/wp-content/uploads/sites/5/2019/04/PAEE_ALE_2020_PROCEEDING_S.pdf
20	Problem-Based Learning (PBL) Implemented in Manufacturing Processes	August 26-28, 2020	PAEE/ALE 2020 CONFERENCE (Full paper)	TU	Apiwat Muttamara, Patittar Nakwong, and Sawat Pararach	https://msie4.ait.ac.th/wp-content/uploads/sites/5/2019/04/PAEE_ALE_2020_PROCEEDING_S.pdf
21	Collaborative Manufacturing Systems: Active Learning from Its Name	August 26-28, 2020	PAEE/ALE 2020 CONFERENCE (Full paper)	PSU, AIT, CMU	Kunlapat Thongkeaw, Thanate Ratanawilai1 Wanida Rattanamane, Pisut Koomsap, Duangthida Hussadintorn Na Ayutthaya, and Wasawat Nakkiew	https://msie4.ait.ac.th/wp-content/uploads/sites/5/2019/04/PAEE_ALE_2020_PROCEEDING_S.pdf

No.	Title	Published Date	Publisher	By Partner	Authors	Reference
22	Make Product Design and Development Beyond Active Learning with 'LOVE'	August 26-28, 2020	PAEE/ALE 2020 CONFERENCE (Full paper)	AIT	Duangthida Hussadintorn Na Ayutthaya and Pisut Koomsap	https://msie4.ait.ac.th/wp-content/uploads/sites/5/2019/04/PAEE_ALE_2020_PROCEEDING_S.pdf
23	NPS Better Predict Online Classroom	August 26-28, 2020	PAEE/ALE 2020 CONFERENCE (Full paper)	TU	Patittar Nakwong, Apiwat Muttamara, and Boonlum Soontorn	https://msie4.ait.ac.th/wp-content/uploads/sites/5/2019/04/PAEE_ALE_2020_PROCEEDING_S.pdf
24	Design, Implementation, and Improvement of the Course for Master's Degree Program in Industry 4.0: A Case Study in Digital Factory Subject	August 26-28, 2020	PAEE/ALE 2020 CONFERENCE (Full paper)	KMUTNB	Athakorn Kengpol, Nitidetch Koothongsomrit, and Warapoj Meethom	https://msie4.ait.ac.th/wp-content/uploads/sites/5/2019/04/PAEE_ALE_2020_PROCEEDING_S.pdf
25	LOVE Model-Based Assessment of Teaching Practices Within Industrial Engineering Master	August 26-28, 2020	PAEE/ALE 2020 CONFERENCE (Full paper)	CUT, AIT	Tomasz Nitkiewicz, Duangthida Hussadintorn Na	https://msie4.ait.ac.th/wp-content/uploads/sites/5/2019/04/PAEE_ALE_2020_PROCEEDING_S.pdf



No.	Title	Published Date	Publisher	By Partner	Authors	Reference
	Programs in Poland and Thailand				Ayutthaya, Małgorzata Koszewska, Karolina Wiszumirska, Magdalena Wojnarowska, and Pisut Koomsap	019/04/PAEE ALE 2020 PROCEEDING S.pdf
26	An OBE Curriculum Design for a Manufacturing Engineering Program, from Thai Traditional to Outcome Based Education	August 26-28, 2020	PAEE/ALE 2020 CONFERENCE (Full paper)	PSU	Wanida Rattanamane, Kunlapat Thongkaew, Supapan Chaiprapat, Suriya Jirasatitsin, Chukree Daesa, and Pichet Trakarnchaisiri	https://msie4.ait.ac.th/wp-content/uploads/sites/5/2019/04/PAEE_ALE_2020_PROCEEDING_S.pdf
27	A Gap Analysis between the Expectation of Industry 4.0 and the Ability of the Current Industrial Engineering Graduates in Khon Kaen University	August 26-28, 2020	PAEE/ALE 2020 CONFERENCE (Full paper)	KKU	Sirorat Pattanapairoj, Thitipong Jamrus, Rujapa Nanthapodej, and Kanchana Sethanan	https://msie4.ait.ac.th/wp-content/uploads/sites/5/2019/04/PAEE_ALE_2020_PROCEEDING_S.pdf
28	Learning Experiences from Digital Factory Subject and Communications and	August 26-28, 2020	PAEE/ALE 2020 CONFERENCE (Full paper)	KMUTNB	Chawantorn Chanchittakarn, Karakade Buakaew,	https://msie4.ait.ac.th/wp-content/uplo

No.	Title	Published Date	Publisher	By Partner	Authors	Reference
	People Skills Development for Engineering Leaders Subject				and Athakorn Kengpol	ads/sites/5/2019/04/PAEE_ALE_2020_PROCEEDING_S.pdf
29	Helping Students to Avoid Critical Mistakes/Misunderstandings When Using Active Learning/Project-Based Learning Approaches in Teaching Statistical Analysis	August 26-28, 2020	PAEE/ALE 2020 CONFERENCE (Full paper)	AIT	Huynh T. Luong	https://msie4.ait.ac.th/wp-content/uploads/sites/5/2019/04/PAEE_ALE_2020_PROCEEDING_S.pdf
30	Evaluation of a Pilot Course of Project Management for Industry 4.0	August 26-28, 2020	PAEE/ALE 2020 CONFERENCE (Full paper)	UMinho	Rui M. Lima, Diana Mesquita, André Luiz Aquere, and Cristiano de Jesus	https://msie4.ait.ac.th/wp-content/uploads/sites/5/2019/04/PAEE_ALE_2020_PROCEEDING_S.pdf
31	Class Dissatisfaction and Intelligibility of PBL	August 26-28, 2020	PAEE/ALE 2020 CONFERENCE (Full paper)	UMinho	Octavio Mattasoglio Neto, Paulo Henrique Mendes Silva, Renam Rubam Barberini,	https://msie4.ait.ac.th/wp-content/uploads/sites/5/2019/04/PAEE_ALE_2020_PROCEEDING_S.pdf

No.	Title	Published Date	Publisher	By Partner	Authors	Reference
					and Rui M Lima	PROCEEDING S.pdf
32	A Survey of Requirements for Thailand's Industry 4.0: The Perspectives from Academics and Entrepreneurs	August 26-28, 2020	PAEE/ALE 2020 CONFERENCE (Full paper)	KMUTN B	Nitidetch Koohathongs umrit, Nanthawat Phakkulhab, Athakorn Kengpol, and Warapoj Meethom	https://msie4.ait.ac.th/wp-content/uploads/sites/5/2019/04/PAEE_ALE_2020_PROCEEDING_S.pdf
33	Standards of Developing Study Program. An Example of Polish Legislation in Higher Education	August 26-28, 2020	PAEE/ALE 2020 CONFERENCE (Full paper)	CUT	Anna Wiśniewska-Sałek, Dorota Jelonek, Elżbieta Wystocka, Edyta Kulej-Dudek, and Marcin Zawada	https://msie4.ait.ac.th/wp-content/uploads/sites/5/2019/04/PAEE_ALE_2020_PROCEEDING_S.pdf
34	Soft Skills of Engineers in View of Industry 4.0 Challenges	2020	Conference Quality Production Improvement-QPI2020, (ed.) ULEWICZ Robert, HADZIMA Branislav)	CUT, AIT	Jelonek, Dorota, Tomasz Nitkiewicz, and Pisut Koomsap.	Jelonek, D., Nitkiewicz, T., & Koomsap, P. (2020, October). Soft Skills of Engineers in View of Industry 4.0 Challenges. In

No.	Title	Published Date	Publisher	By Partner	Authors	Reference
						Conference Quality Production Improvement–CQPI (Vol. 2, No. 1, pp. 107-116). Sciendo.

*Journal publications

Table 2. Published abstracts published from 2018-2020

No.	Title	Published Date	Publisher	By Partner	Authors
1	Adapting Problem Based Learning for Human-Centric Design Course	August 26-28, 2020	PAEE/ALE 2020 CONFERENCE	TU, UMinho	Naris Charoenporn, Jirawan Kloypayan, and Néilson Costa
2	Success Factor of Activity-Based Learning Experiences for I4.0 SMART OPERATION Course Design and Implementation	August 26-28, 2020	PAEE/ALE 2020 CONFERENCE	CMU	Wichai Chattinnawat, Uttapol Smutkupt, and Anirut Chaijaruwanich
3	Community Learning and Engagement of OTOP Product Design	August 26-28, 2020	PAEE/ALE 2020 CONFERENCE	CMU	Wichai Chattinnawat
4	Lessons Learned from the Dissemination, Exploitation and Sustainability of the Curriculum Development of Master's Degree Program in Industrial Engineering for Thailand Sustainable Smart Industry (MSIE4.0)	August 26-28, 2020	PAEE/ALE 2020 CONFERENCE	CUT, KKU	Robert Ulewicz, Thitipong Jamrus, Komkrit Pitiruek, Sirorat Pattanapairoj, and Kanchana Sethanan

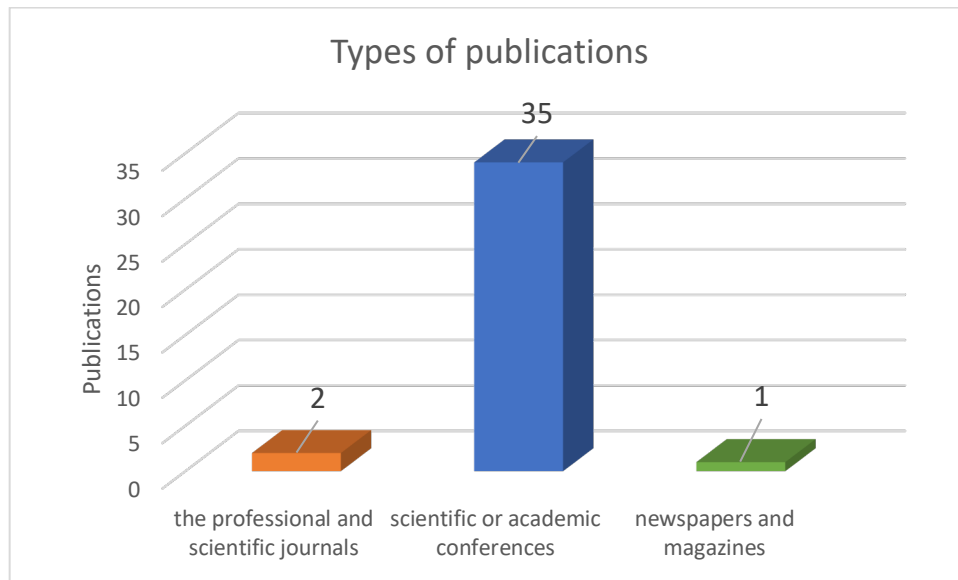


Figure 1. Types of publications

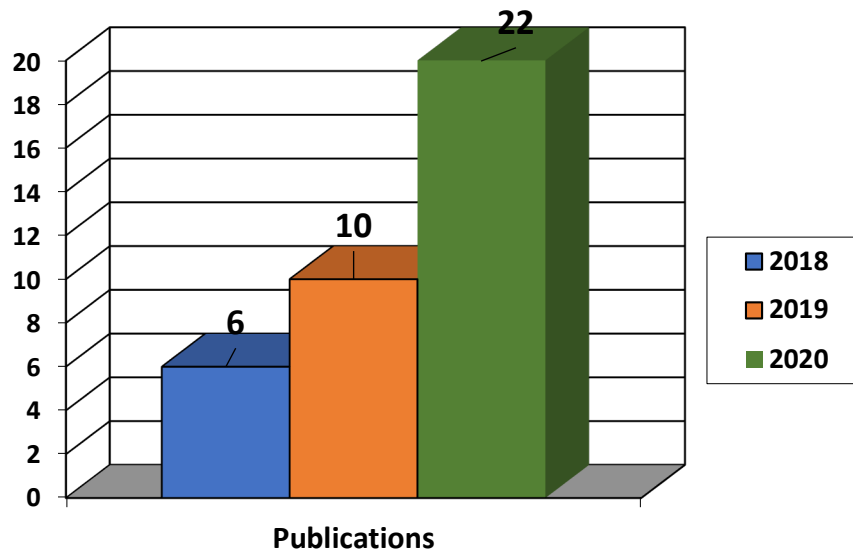


Figure 2. Number of publications published by years

3.2 Articles in newspapers, magazines, brochures, and social media

In this project, “Spotkanie w ramach projektu MSIE 4.0 programu CBHE-KA2 Erasmus+” (Article #16 in Table 1) was published in Politechnika Częstochowska Magazine on July 2019 in order to introduce the project by CUT members. In the same year, introduction of the MSIE4.0 project via the VDO clip was posted in Bangkok Post website on June 17, 2019. The title of clip VDO was “Preparing for the

future”. It announced that Thai universities joined hands in offering industrial engineering courses to prepare the country for the so-called Industry 4.0 (see Fig. 3).

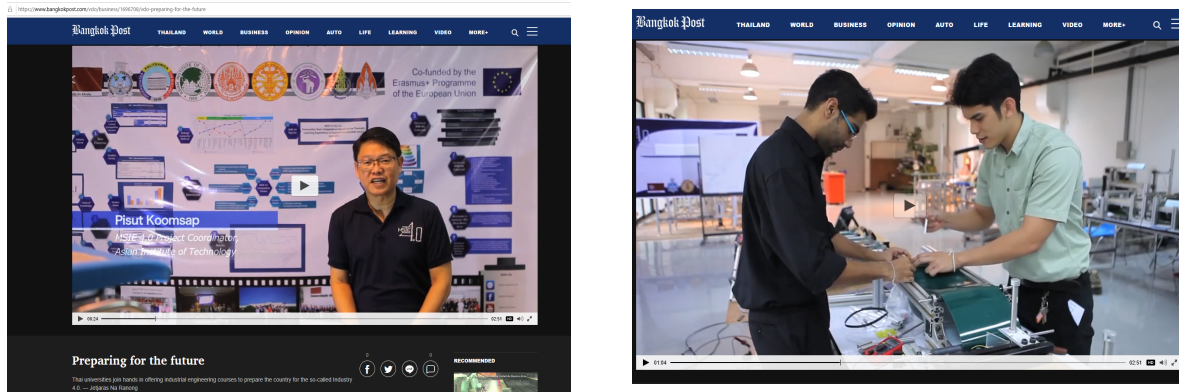


Figure 3. VDO Clip of the MSIE4.0 project introduced in Bangkok post under the title of “Preparing for the future”

4. Conclusion

In Task 5.4, publications in professional journals, newspapers, magazines, brochures, and social media were published with the objective to enhance visibility and attention focus towards the new MSIE4.0 curriculum and technologies used in Industry 4.0. To meet the requirements, the expected results of this task are to publish the publications in professional journals, newspapers, magazines, brochures, and social media at least 18 publications by M36 by all partners. In this project, 38 publications were published in various sources. Therefore, Task 5.4 went above and beyond the requirements for a project.