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Revision	Preparation date	Period covered	Project start date	Project duration
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V2	January 2021	Month 19-24		
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1 Executive Summary

In this deliverable a summary of the evaluations collected at the end of each University course, vocational training and summer school is reported. Feedback is essential to measure the progress and performance of individual course and plan further steps for the improvement of the teaching. The form used to collect the feedback has been defined in WP6 – Quality assurance.

This deliverable has been updated every 6 months. Annexes are restricted to the consortium for privacy reason.

D7.2 takes into account the courses and the vocational trainings carried out in during the period PM1-PM36.

2 Evaluation of the University courses provided by the DigiFoF partners

Table 1 shows the list of the university courses provided by the DigiFoF HEIs members. The main characteristics of the course, number of attendees, when it was delivered, by whom and an indicator of the overall evaluation is reported. The indicator reflects the average value obtained:

- Green if the average evaluation obtained is more than satisfactory,
- Orange if it is satisfactory
- Red if the course has not reached the minimum satisfactory level.

In general terms all courses have achieved a good level of satisfaction from students both in terms of contents and materials. The main problem was timing, in some cases it would have been necessary to give the students a little more time. Moving to online provision due to Covid 19 was not easy due to the limitation in the interaction among teacher and students as well as issues related to the use of the online platforms.

Date	Organizer	Title	N° of attendees	Indicator	Improvement suggestions	Detail informations
17.10.2019	UBLS	Workplace safety – employees emotion recognition	16	4.8		ANNEX A
06.12.2019	UNIBG	Modeling and simulation	9	3.9		ANNEX B
10.01.2020	UNIBG	Modeling	28	4.4	Additional time is requested to better fix the concepts.	ANNEX C
5.12.2019 and 16.01.2020	UBLS	Smart City Modeling (ADOxx)	20	4.6	Additional time	ANNEX D
22.01.2020 and 01.02.2020	UBLS	Service Operations Management	32	4.3	More exercises and additional material. Low interaction due to the online system	ANNEX H
06.02.2020	EMSE	Operationalizing Circular Economy by means of Product-Service System (PSS)	14	3	Academic method, short time, Short practice, lack of equipment, too much information in a short time	ANNEX I
27.09.2020 – 09.11.2020	ULBS	Workplace safety – Employees emotion recognition	20	4.4	Short time, online courses, few example	ANNEX M
17-18.05.2021 and 31.05.2021	UNIBG	Service Operations Management	37	4.7	Low interaction due to the online system	ANNEX AD
4-24-25/05.2021	UNIBG	Product-service system engineering	37	4.8	Low interaction due to the online system	ANNEX AE

<p>4.10-22.11.2021</p>	<p>ULBS</p>	<p>Workplace safety – Employees emotion recognition</p>	<p>7</p>	<p>4.3</p>	<p>Overwhelming implementation of the applications Lack of interaction with the teacher due to remote training</p>	<p>ANNEX AF</p>
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Table 1 List of the University Courses provided by the HEIs belonging to the DigiFoF consortium

3 Evaluation of the Vocational Trainings provided by the DigiFoF partners

Table 2 shows the list of the vocational training courses provided by the HEIs belonging to the DigiFoF consortium. Similarly to the previous section, the main characteristics of the course, number of attendees, when it was delivered, by whom and an indicator of the overall evaluation.

The indicator is calculated as follow:

- Most satisfied=5
- Satisfied=4
- Moderately satisfied=3
- Rather dissatisfied=2
- Not at all satisfied=1

The indicator reflects the average value obtained of the course:

- Green if the average evaluation obtained is more than satisfactory ($i > 3,5$)
- Orange if it is moderately satisfactory ($3,5 < i < 2,5$)
- Red if the course has not reached the minimum satisfactory level. ($i > 2,5$)

In general terms all the vocational training courses provided have achieved a good level of satisfaction from the participants both in terms of content and material. The main problem was the timing, in some cases it would have been necessary to give the students more time to share and discuss industrial issues. Similarly to the university courses, moving to online provision was not easy due to the limitation in the interaction among the students and the teacher and the use of the online platforms.

Date	Organizer	Title	N° of attendees	Indicator	Improvement suggestions	Detail informations
21.06.2019	EMSE	Creativity session for industrial employees on PSS business model	11	4.4		ANNEX E
25.10.2019	UNIBG	Business process modelling and Principle of business process simulation	7	4.3	The course was too short. To understand the topics it is necessary to spend more time	ANNEX F
22.01.2020 and 01.02.2020	ULBS	Workplace safety - Employees emotion recognition	4	4.9		ANNEX G
25.05.2020	UNIBG	Service Operations Management	35	XX	It' s necessary to provide additional exercises	ANNEX H
06.02.2020	EMSE	Master course Circluar PSS	14	XX	Short Time, short practice, lack of equipment, too much information in a short time	ANNEX I
15.06.2021 and 26.06.2020	ULBS	Workplace safety - Employees emotion recognition	7	4.9	Issue with the online system	ANNEX L
21.10.2020	CONTINENTAL	Cobots - installing and programming information needed for a rapid implementation of Cobots in industrial environment	10	4.4	Long time between theory and practice	ANNEX N
16.12.2020 and 17.12.2020	UNIBG	Business Process Analysis and Re-engineering	17	4.1	Short time dedicated to the practice and to the simulation	ANNEX O
07.12.2020 - 11.01.2020	ULBS	Smart city modelling (ADOxx)	19	4.1	Short time, no possibilities to interact with devices since it was onlie (due to pandemic)	ANNEX P

13.07.2020 27.07.2020	ULBS	2 nd Workplace safety - Employees emotion recognition	11	4.3	Short time	ANNX Q
17 .02.2021	UNIBG	Identification of innovative Product Service Systems (Adopting Scene2Model)	4	4.75		ANNEX R
19 – 23 04.2021	UNIBIAL	Fundamentals of Business Process Management (BPM)	64	4.23	<p>Extend the duration of each workshop due to the complexity of the topics and the amount of knowledge and information transferred, combined with the implementation of the proposed practical exercises.</p> <p>Participants also often stressed the importance of participation in the form of "on site", which allows for better interaction between each of them, which affects the quality of teamwork.</p>	ANNEX S
21 -22 04.2021	UNIBIAL	Business Model Canvas	64	4.3		ANNEX T
26 -28 04.2021	UNIBIAL	Design thinking for product and service design	55	3.41		ANNEX U
21 – 30 04.2021	UNIBIAL	Artificial intelligence tools and Cloud manufacturing for Industry 4.0 transformation	12	4.35		ANNEX V
26.04.2021 and 04.05.2021	BOC	Process identification and Customer Journey	44	3.48		ANNEX X
26.04.2021 – 04.05.2021	BOC	Process modelling using BPMN	42	4.51		ANNEX Y
28.04.2021 – 06.5.2021	BOC	Improving processes and monitoring process changes with Key	44	4.43		ANNEX Z

		Performance Indicators (BPI)				
30.04.2021 – 05.05.2021	IDPC	Manufacturing Process Improvement with Lean approach (LM)	43	4.70		ANNEX AA
23.04.2021	UNIBG	Service Operations Management	7	4.65		ANNEX AB
28.06.2021	UNIBG	Lifecycle management of products and services	4	4.8		ANNEX AC

Table 2: List of Vocational Trainings provided by the HEIs belonging to the DigiFoF consortium

4 Evaluation of the NEMO Days and NEMO Summer School

This paragraph will report the main highlights about the evaluation of the NEMO Days and of the NEMO Summer School. More details are available in the Deliverable D5.3 “Report on evaluation of developed academic materials during the NEMO Summer School”.

Date	Event	Title	N° of registered participants	Feedback
29/01/2021	Nemo Day	NEMO Day DigiFoF Edition	54	Participants were highly satisfied in organisation of event. In every aspect event gained mostly highest score.
16/04/2021	Nemo Day	NEMO Day DigiFoF Edition	46	23 questionnaires evaluated: Participants were highly satisfied in organisation of event. In every aspect event gained mostly highest score. Feedback from the event was mainly positive and many of the attendees would recommend event for their colleagues. Similar to January event participants would hope more practical parts for the seminar. There is still a need to improve interaction between students and teacher during the seminar.
14/05/2021	Nemo Day	NEMO Day DigiFoF Edition	46	23 responses to the questionnaire: Nemo Day May 2021 was a successful event and number participants was high. Feedback from the event was mainly positive and many of the attendees would recommend event for their colleagues. Similar to January and April event participants would hope more practical parts for the seminar. There is still a need to improve interaction between students and teacher during the seminar.
14/07/2021 – 30/07/2021	Nemo Summer School 2021	Nemo Summer School 2021	252	Feedback from the students was mainly positive indicating that lecture was successful. Students enjoyed introduction to current and future

				research problems lie. With such a short time and diverse participants lecture still felt like an introduction to the topic. As with the NEMO-days main improvements for the lecture were additional time, more practical examples and student inclusion. In addition easier access to the materials (both presentation and addition) could benefit student learning.
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Table 3 - Evaluation of the NEMO Days and Summer School

5 Conclusion

This document has provided a summary of the evaluations collected for the Universities courses, vocational trainings and summer schools carried out by the DigiFoF consortium during the period PM1-PM36. This document has been updated every six months.

Due to the COVID-19 courses have been managed online and an online form has been also used to collect the evaluation. In general terms all the courses and initiatives related to the NEMO summer school provided by DigiFoF consortium have achieved a good level of satisfaction from students both in terms of content and available materials.

