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THE FOF-DESIGNER:  
DIGITAL DESIGN SKILLS FOR FACTORIES OF THE FUTURE

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DigiFoF



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D7.2 Evaluation Report<sup>1</sup>

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**Lead Organisation:**  
UNIBG

**Project Coordinator:**  
ULBS

**Contributors:**  
All Partners


**Reviewers:**  
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Revision	Preparation date	Period covered	Project start date	Project duration
V1	July 2020	Month 1-19	01/01/2019	36 Months
V2	January 2021	Month 19-24		
V3	July 2021	Month 24-31		

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## 1 Executive Summary

In this deliverable a summary of the evaluations collected at the end of each University course and vocational training 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.

In the Annex the scanned copies of the evaluations collected in each training session are provided. This deliverable will be updated every 6 months.

D7.2 takes into account the courses and the vocational trainings carried out in during the period PM1-PM31.

## 2 University course

In **Table 1** a list of the university courses provided is reported. **Table 1** reports the main characteristics of the course, number of attendees, when it was delivered, by whom and an indicator of the overall evaluation.

The indicator reflects the average value obtained of the course:

- 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.

For each course, details of the assessments obtained are given in the appendix. Improvement suggestions have been also analysed.

In general terms all courses provided have achieved a good level of satisfaction from students 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 a little more time. Moving to online provision of the course was not easy due to the limitation in the interaction and to the use of the online platform.

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
17-18-31/5/2021	UNIBG	Service Operations Management	37	4,7	Low interaction due to the online system	ANNEX AD
4-24-25/5/2021	UNIBG	Product-service system engineering	37	4,8	Low interaction due to the online system	ANNEX AE

Table 1 University Courses

### 3 Vocational training

In Table 2 a list of the university courses provided is reported. Table 2 reports 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. ( $i > 2,5$ )

For each course, details of the assessments obtained are given in the appendix. Improvement suggestions have been also analysed.

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. Moving to online provision of the course was not easy due to the limitation in the interaction and to the use of the online platform.

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 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
16-17/12/2020	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

13-27/7/2020	ULBS	2 <sup>nd</sup> Workplace safety - Employees emotion recognition	11	4,3	Short time	ANNX Q
17 February 2021	UNIBG	Identification of innovative Product Service Systems (Adopting Scene2Model)	4	4,75		ANNEX R
19 -23 April 2021	UNIBIAL	Fundamentals of Business Process Management (BPM)	64	4,23	<p><b>Extend the duration of each workshop</b> 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 <b>importance of participation in the form of "on site"</b>, which allows for better interaction between each of them, which affects the quality of teamwork.</p>	ANNEX S
21 -22 April 2021	UNIBIAL	Business Model Canvas	64	4,3		ANNEX T
26 -28 April 2021	UNIBIAL	Design thinking for product and service design	55	3,41		ANNEX U
21 – 30 April 2021	UNIBIAL	Artificial intelligence tools and Cloud manufacturing for Industry 4.0 transformation	12	4,35		ANNEX V
26 April – 4 May 2021	BOC	Process identification and Customer Journey	44	3,48		ANNEX X
26 April – 4 May 2021	BOC	Process modelling using BPMN	42	4,51		ANNEX Y
28 April – 6 May 2021	BOC	Improving processes and monitoring process changes with Key Performance Indicators (BPI)	44	4,43		ANNEX Z

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April 30 – 5 May 2021	IDPC	Manufacturing Process Improvement with Lean approach (LM)	43	4,70		ANNEX AA
23 April 2021	UNIBG	Service Operations Management	7	4,65		ANNEX AB
28 June 2021	UNIBG	Lifecycle management of products and services	4	4,8		ANNEX AC

**Table 2:** Vocational training



## 4 Conclusion

D7.2 has provided a summary of the evaluations collected at the end of each University course and training carried out in during the period PM1-PM31. D7.2. will be update every six months including also the evaluation of the summer schools. The form used to collect the feedback is in line with which has been defined in WP6 – Quality assurance. 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 provided by UNIBG, EMSE and UBLS have achieved a good level of satisfaction from students both in terms of content and material as well as the vocational training courses provided by UNIBG, ULBS and EMSE.

