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Erasmus+ Programme Key Action 2 Cooperation  
Partnerships for Higher Education (KA220-HED)  
Agreement number 2023-1-RO01-KA220-HED-000155412

*European Network for Additive Manufacturing in Industrial Design for Ukrainian Context*

## REPORT

### Short-term joint staff training events in the field of VR and AR programming hosted by EDIBON International S.A., Madrid, Spain c/ Julio Cervera 10, Móstoles Technological Park, 28935, Madrid (Spain) 7 – 10 May 2024

Short-term joint staff training events in the field of VR and AR programming, that has been organized in the frame of the project - Agreement number 2023-1-RO01-KA220-HED-000155412, Acronym: AMAZE with the title “*European Network for Additive Manufacturing in Industrial Design for Ukrainian Context*”, Erasmus+ Programme Key Action 2 Cooperation Partnerships for Higher Education (KA220-HED), took place on **7-10 May 2024** and were participated **17 persons** from consortium partners: National University of Science and Technology POLITEHNICA Bucharest, Romania (UNSTPB), Poznan University of Technology, Poland (PUT), Yuriy Fedkovych Chernivtsi National University, Ukraine (YFCNU) and EDIBON International S.A. Madrid, Spain. The event was hosted by **EDIBON International S.A., company from Madrid, Spain.**



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AMAZE Staff Training on:  
**VR and AR programming**



Organized by EDIBON INTERNATIONAL S.A., Madrid, Spain





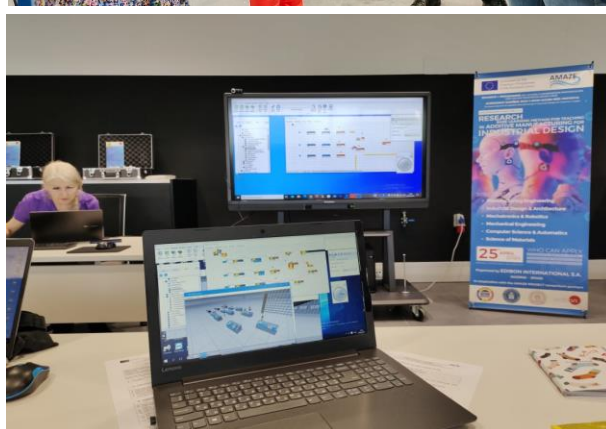
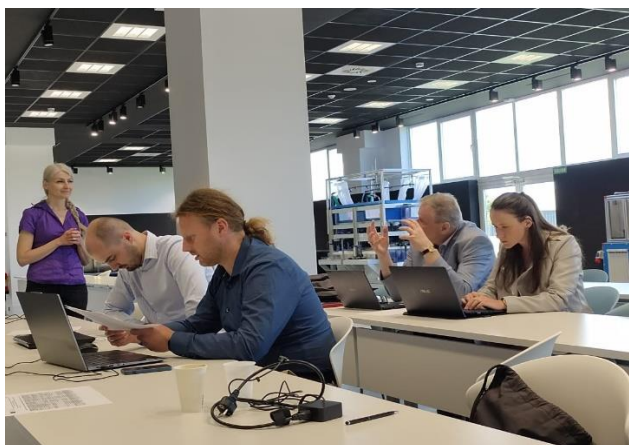
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The activities organized within the short-term joint staff training at EDIBON International S.A company, in 7-10 May 2024, had as objective the use and testing the functionality of e-learning virtual platform developed using ARISE for IO3, presentation sustained by Mrs. Mirian Bonilla and Mr. Carlos Lleras Carli from EDIBON International company.







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The Training Staff started at 8:30 with the participants registration and the event introduction with the staff from the EDIBON International S.A. company. There were presented the main aims, actions and activities of the training activity. The short-term joint staff training was addressed to professors which are involved in teaching Industrial Design, Additive Manufacturing, new Smart (Intelligent) Materials, Reverse Engineering, Sensors and Electronics, Computer Programming, CAD/CAE, as to other engineers, professors, researchers interested to the developing, manufacturing and testing new industrial design of products with complex form using the innovative Additive Manufacturing technologies.

The detailed agenda/program was:



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Project No: 2023-1-RO01-KA220-HED-000155412

Project title: European Network for Additive Manufacturing in Industrial Design for Ukrainian Context

Acronym: AMAZE



**Agenda for Staff training in VR and AR programming EDIBON INTERNATIONAL S.A. Company, Madrid, Spain 7-10.5.2024**

Date and time period	7.05.2024	8.05.2024	9.05.2024	10.05.2024
8.30 - 8.45 AM	Registration of the participants	EDIBON International S.A. visit (manufacturing and assembling rooms / facilities)	EDIBON INTERNATIONAL S.A. Company (manufacturing of AR / VR rooms and testing of the facilities in the rooms)	AMAZE platform (basic concept, vision, organizing into different rooms) - lecture
8.45 - 9.00 AM	Introduction – welcome words+ presentation of training scope			Research realized concerning materials used in industry (Prof. Adam Patalas, Prof. Pawel Zawadzki – PUT)
9.00 - 9.45 AM	Additive manufacturing used in industrial design of complex parts (Assoc.Prof. Băilă Diana – Politehnica Bucharest)			
9.45 - 10.30 AM	AR/VR software presentation (EDIBON)	VR presentation (basic concepts) – lecture (EDIBON)	AR presentation (basic concepts) – lecture (EDIBON)	AMAZE application – laboratory – uploading the rooms / VR & AR apps on the virtual platform
10.30 - 11.00 AM	Coffee break	Coffee break	Coffee break	Coffee break
11.00 - 12.15 PM	AR/VR applications – laboratory work	Reverse Engineering (As.Prof. Natalia Wierzbicka, Prof. Remigiusz Labudzki – PUT)	Exploring Polymeric Materials: Innovations and Uses in 3D Printing (Prof. Zaharia Cătălin-Politehnica Bucharest)	AMAZE application – laboratory – releasing of the draft variant of AMAZE platform on the AMAZE website
12.15 - 13.00 PM	New materials used in Industrial Design. Sensors and electronics. (Assoc.Prof. Băilă Diana – Politehnica Bucharest)	Design Methods (Prof. Dumitrescu Andrei – Politehnica Bucharest)	New materials and properties used in architectural design (YFCNU Ukraine)	Testing of AMAZE platform and final feedbacks related to the functionality and content of the platform, next steps about what has to be improved
13.00 – 14.00 PM	Precision and dimensional control used in industry (Prof. Ionescu Nicolae – Politehnica Bucharest)	Architectural design CAD in industrial products (YFCNU Ukraine)	Conclusions, feedbacks and interim evaluation of progress work	Closing words, releasing of the certificates, final conclusions related to realizing training and future work and closing ceremony
14.00 – 15.00 PM	Lunch break	Lunch break	Lunch break	Lunch break

EDIBON International S.A. company show us their e-learning virtual laboratory platform on different equipment's used in industry and in universities from Madrid, and that were developed in the COVID period for facilitate the educational/research process for the students, professors and researchers.





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The experience in using and working on the e-learning virtual laboratory platform developed by EDIBON International S.A. company was very interesting, because permit us to see all compounds of the equipment's and to see how function, only scanning a QR code, very important feedbacks was collected, not only on how the platform functionality issues must be improved, but also on how this important tool that will be developed by the AMAZE consortium in IO3, could be used in personalized teaching method for Higher education in the future.



The Short-term joint staff training event in the field of VR and AR programming, that has been organized in the frame of the *European Network for Additive Manufacturing in Industrial Design for Ukrainian Context*, Agreement number 2023-1-RO01-KA220-HED-000155412, AMAZE was organized during 4 days at EDIBON International S.A. company, Madrid, Spain.

More information about AMAZE project - **Agreement number 2023-1-RO01-KA220-HED-000155412** can be found on the following link: [www.amaze2023.eu](http://www.amaze2023.eu).

May 2024

EDIBON International S.A. company, Madrid, Spain

