DeepTech & Innovation Online School

Sustainable Product Design in a Digital Age

Monday, 3rd to Friday, 7th November 2025

AGENDA

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DAY 1 *Deep Tech and Sustainable Product Design*

Date: Monday 3rd November 2025

Host: Prof. Dermot Brabazon, Dublin City University

Time	Session
9.45 - 10.00	Registration to the Zoom Platform
10.00–10.10	Opening of the Online School Prof. Dermot Brabazon, Dublin City University
10.10 - 10.30	EIT RawMaterials: Driving Innovation and Skills for the Raw Materials Sector Dr. Fabio Ferri, Education Manager, EIT RawMaterials, https://eitrawmaterials.eu/
10.30 - 11.00	Getting ready for the labour market of today and tomorrow: the role of the EIT Campus. Mr Gerard Dominguez, Head of Capacity Building at EIT Campus, https://eit-campus.eu/
11.00 - 11.30	A-SIDE project presentation Prof. Dermot Brabazon, Dublin City University
11.30 - 12.00	Break
12.00 - 12.30	SAIFA project, EuroHPC JU AI Factory Antennas, The Serbian Artificial Intelligence Antenna Factory Dr Dusan Vudragovic, Institute of Physics Belgrade, https://www.eurohpc-ju.europa.eu/eurohpc-ju-selects-ai-factory-antennas-broaden-ai-factories-initiative-2025-10-13_en
12.30 - 13.00	The Role of the Centre for Water for Sustainable Development and Adaptation to Climate Change (WSDAC), C2C under auspices of UNESCO, in Promoting New Technologies in the Water Sector Dr Brankica Majkić-Dursun, director WSDAC, Jaroslav Černi Water Institute, Belgrade, https://wsdac.jcerni.rs/
13.00–13.30	What is Deeptech? Intersection of Deep Tech and Sustainability Prof. Fatima Zivic, Vodena, University of Kragujevac
13.30–14.00	Leveraging Life Cycle Thinking (LCT) Tools to Guide Sustainable Design and Certification in Innovation-Driven Sectors Dr Irene Mazzei, University Bergamo
14.00–15.00	Lunch
15.00–15.30	F6S creating opportunities and synergies in DeepTech Dr Raquel Almeida, Co-founder & EU Projects Developer, F6S, https://www.f6s.com/
15.30–16.00	ILIAD3: an Applied Research Competence Center for AI-based Image and Data Processing Prof. Barthélémy Serres, University of Tours, https://iliad3.univ-tours.fr/english-version
16.00–16.30	Sustainability in Materials Design and Development Prof. Hakan Yılmazer, Gebze Technical University
16.30–17.00	Artificial Intelligence for Sustainable Product Design: From Data to Innovation Prof. Christophoros Nikou, University of Ioannina
17.00–17.30	Practical Assignment Session, End of day 1

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DAY 2 *AI and Data Science in Sustainable Product Design and Energy Sector*

Date: Tuesday 4th November 2025

Host: Prof. dr Ana Kaplarevic Malisic, Vodena, University of Kragujevac

All times are CET time

Time	Session
10.00 - 10.30	AI-driven innovations in manufacturing and business
	Prof. Boban Stojanovic, Vodena, University of Kragujevac
10.30–11.00	Data-Driven Surrogate Models for Sustainable Design and Optimization
	Prof. Peyman Mahouti, Gebze Technical University
11.00 - 11.30	DeepTech in Cybersecurity Products
	Prof. Sedat Akleylek, Gebze Technical University
11.30 - 12.00	Break
12.00 - 12.30	Supercomputing and Big Data - Industry Use Cases
	Prof. Milos Ivanovic, Vodena, University of Kragujevac
12.30 - 13.00	AI Tools and Best Practices for Software Development
	Dr Sergii Shelpuk, Shelpuk AI Technology Consulting, https://www.shelpuk.com/
13.00 - 13.30	SMARTICITY energy software – smart electricity
	Mr Nikola Bojović, Vodena, Kragujevac, Serbia, https://vodena.rs/
13.30 - 14.00	Machine Learning Applications for Sustainable Product Design in Energy, Environment, and Health
	Prof. Özgün Yücel, Gebze Technical University
14.00–15.00	Lunch
15.00–15.30	The Role of Atomistic Calculations in Energy Materials Research: From Hydrogen Capture to Battery Innovation
	Prof. Stevan Armaković, University of Novi Sad
15.30–16.00	Data management for local-level transition plans – energy and climate
	Prof. Mitar Perusic, University of East Sarajevo
16.00–16.30	Technology adoption by Energy sector SMEs
	Dr Maite Couto-Ortega, Mondragon University
16.30–17.00	The Fuel Cell: An Energy Converter of the future
	Prof. Cécile Autret Lambert, University of Tours, Greman Laboratory
17.00–17.30	Sustainable Antenna Design for 5G and Beyond Applications via Deep Learning
	Prof. Peyman Mahouti, Gebze Technical University
17.30–17.40	End of day 2

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DAY 3 Sustainable Product Design in Transport Sector

Date: Wednesday 5th November 2025

Host: Prof Fatima Zivic, University of Kragujevac; Dr Aleksija Đurić, University of East Sarajevo

All times are CET time

Time	Session
10.00 - 10.30	**Railway transformation** Mr Milos Stevanovic, Head of Production, Siemens Mobility d.o.o. Cerovac, https://www.mobility.siemens.com/rs/en.html
10.30–11.00	**Sustainable vehicle design – a way for future mobility** Prof. Jovanka Lukic, Faculty of Engineering, University of Kragujevac
11.00 - 11.30	**AI-Driven Quality Optimization: Real-World Case Studies from Industrial Practice** Dr Nemanja Pajic, ZF Serbia
11.30 - 12.00	Break
12.00 - 12.30	**Critical Raw Materials for a Resource Efficient Circular Economy** Prof. Inam Ul Ahad, Dublin City University
12.30 - 13.00	**Sustainability in Conventional and Advanced Metallic Products Manufacturing** Prof Hakan Yılmazer, Gebze Technical University
13.00 - 13.30	**Leveraging AI for predictive maintenance** Dr Javier Mendez Gomez, HTEC, Munich, Germany, https://htec.com/
13.30 - 14.00	**Additive Manufacturing as a Digital Technology** Dr. Eanna McCarthy, Dublin City University
14.00–15.00	Lunch
15.00–15.30	**Study of finishing operation for thin-walled structures processed by LPBF additive manufacturing with Taguchi approach** Lucas Chevailler, University of Tours
15.30–16.00	**Managing the Invisible Highways: Transforming Urban Air Traffic into Opportunity** Vladimir Spinko, Chief Executive Officer of Aery Bizkaia, Spain
16.00–16.30	**The role of precise material model characterization in optimization of sheet metal forming processes** Prof. Gábor J. Béres, John Von Neumann University
16.30–17.00	**Design Thinking as Problem-Solving Methodology** Iker Egizabal, Team Coach & Researcher Mondragon University
17.00–17.30	**Joining Technologies in the Transport Sector: A Review** Dr Aleksija Đurić, University of East Sarajevo
17.30–17.45	**Physico-chemical analysis of the passive film formed on 316L stainless steel in alkaline media and prediction of its behavior using machine learning approaches** Dr Kaouthar Bouguerra, Université de Tours
17.45–17.50	End of day 3

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DAY 4 Sustainable Product Design in BioTech Sector

Date: Thursday 6th November 2025

Host: Prof. Dr. Muhammet Uzuntarla, Gebze Technical University

All times are CET time

Time	Session
10.00 - 10.30	**Changing Drug Design Through the Use of Artificial Intelligence** Prof. Dimitrios Fotiadis, University of Ioannina
10.30-11.00	**AI-generated pharmaceutical formulations, Horizon Europe project i-GREENPHARM** Prof. Vassilis Stathopoulos, National and Kapodistrian University of Athens; Prof. Mohamed Elbadawi, Queen Mary University of London, https://igreenpharm-project.eu/
11.00 - 11.30	**AI-First Pharmaceutical Innovation, DeepCeutix startup,** https://www.deepceutix.com/ Prof. Mohamed Elbadawi, Queen Mary University of London
11.30 - 12.00	Break
12.00 - 12.30	**Healthcare Technologies in the Era of DeepTech** Gebze Technical University Prof.Dr. Muhammet Uzuntarla
12.30 - 13.00	**Photonics as a Tool for Deeptech** Dr. Ronan McCann, Dublin City University
13.00 - 13.30	**DeepTech in Human-Centered and Sustainable Wearable AI** Prof. Saban Ozturk, Gebze Technical University
13.30 - 14.00	**Strategic Neurobranding in the Digital Age** Prof. Snezana Mojsovska Salamovska, University of "St. Kliment Ohridski" Bitola, North Macedonia, EIT project NanoBioTech Nexus, https://eit-hei.eu/projects/nanobiotech-nexus/
14.00-15.00	Lunch
15.00-15.30	**Challenges Faced in Establishing a Drug Discovery Startup** Ana Bouchet, Co-founder and CEO, Lifesome Therapeutics start-up, Madrid, Spain, https://lifesometherapeutics.com/company/
15.30-16.00	**Microelectronics and Sensors: from IoT to high energy physics** Prof. Luigi Gaioni, University of Bergamo
16.00-16.30	**Diabetes market analysis focused on the manufacturer of early detection products** Dr Maider Beitialarrangoitia, Mondragon University
16.30-17.00	**Reverse engineering and finite element methods for geometry reconstruction in medical applications** Mrs. Klaudia Papp, John Von Neumann University
17.00-17.30	**Deep Tech in the Browser: Building Global Access to Atomistic Calculations for Molecular Research** Prof. Stevan Armaković, University of Novi Sad
17.30-18.00	Practical Assignment Session, End of day 4

DAY 5 Innovation & Entrepreneurship: Business and Innovation Management

Date: Friday 7th November 2025

Host: Prof. dr Giovanna Campopiano, University of Bergamo; Prof Yorgos Goletsis, Univeristy of Ioannina

All times are CET time

Time	Session
10.00 - 10.30	**Pitching for Support: Focus on the Customer, End User, Funder** Prof. Emer Ní Bhrádaigh, Dublin City University
10.30–11.00	**Unlocking Intellectual Property** Mr Peter Olwell, Dublin City University
11.00 - 11.30	**Entrepreneurial Experimentation** Dr Davide Hahn, University of Bergamo
11.30 - 12.00	Break
12.00 - 12.30	**XRL: Exploitation readiness level: A sustainable maturity framework for the commercial valorisation of your technology** Prof. Laida San Sebastian from Mondragon University
12.30 - 13.00	**Impact finance and measurement** Dr Fatima Badgaoui
13.00 - 13.30	**Rethinking Innovation and Entrepreneurship through Sustainable Product Design** Prof. Yorgos Goletsis, Nikolaos Alexandros Theodorou, University of Ioannina
13.30 - 14.00	**From Laboratory to Marketplace** Dr Nikolaos Alexandros Theodorou, University of Ioannina
14.00–15.00	Lunch
15.00–15.30	**Market research for new business ventures** Prof. Maria Rosa Scarlata, University of Bergamo
15.30–16.00	**Sustainable Business Model Innovation** Prof. Tommaso Minola, University of Bergamo
16.00–16.30	**Innovation Thinking for Entrepreneurs: Creativity and Critical Thinking** Prof. Lela Andreevska, University of "St. Kliment Ohridski" Bitola, North Macedonia, EIT project NanoBioTech Nexus, https://eit-hei.eu/projects/nanobiotech-nexus/
16.30–17.00	**Shallow Tech vs Deep Tech** Mr Terence Bowden, Dublin City University
17.00–17.30	**Practical Entrepreneurship in an University Setting - Startup Experience from DCU Alpha and Video recordings from Start-ups pitching for Investment** Mr Terence Bowden, Dublin City University
17.30–18.00	Practical Assignment Session, End of day 5

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2 weeks follow up for Practical Assignment - Pitching presentations

Date: Monday to Friday 10-21 November 2025

Hosts: Prof Yorgos Goletsis, Univeristy of Ioannina, Prof. dr Giovanna Campopiano, University of Bergamo; Prof. Fatima Zivic, Vodena, University of Kragujevac

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	Monday, Nov 10
16.00-17.30	**Pitching for Support: Trainees' presentation (1-3 slides, pdf) and Mentoring** Students will be granted full audio and video access to Zoom to present their solutions: Pitch for support to solve some of the challenges that we provided or for their own idea propositions. Recommended Pitch Structure: Problem/Need Target Group - Early Adopters Market - Basic Segmentation Product/Service The Team How Do You Earn? Call to Action (CTA) – What are you asking for – what support do you need?
	Wednesday, Nov 12
16.00-17.30	**Pitching for Support: Trainees' presentation (1-3 slides, pdf) and Mentoring** Students will be granted full audio and video access to Zoom to present their solutions: Pitch for support to solve some of the challenges that we provided or for their own idea propositions.
	Friday, Nov 14
16.00-17.30	**Pitching for Support: Trainees' presentation (1-3 slides, pdf) and Mentoring** Students will be granted full audio and video access to Zoom to present their solutions: Pitch for support to solve some of the challenges that we provided or for their own idea propositions.
	Monday, Nov 17
16.00-17.30	**Pitching for Support: Trainees' presentation (1-3 slides, pdf) and Mentoring** Students will be granted full audio and video access to Zoom to present their solutions: Pitch for support to solve some of the challenges that we provided or for their own idea propositions.
	Wednesday, Nov 19
16.00-17.30	**Pitching for Support: Trainees' presentation (1-3 slides, pdf) and Mentoring** Students will be granted full audio and video access to Zoom to present their solutions: Pitch for support to solve some of the challenges that we provided or for their own idea propositions.
	Friday, Nov 21
16.00-17.30	**Pitching for Support: Trainees' presentation (1-3 slides, pdf) and Mentoring** Students will be granted full audio and video access to Zoom to present their solutions: Pitch for support to solve some of the challenges they that we provided or for their own idea propositions.

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