

Day 1	7 July, Wednesday (local + online)			
09.00 09.30	Opening (local + online)			
09.30 11.00	Hands-on Session: HO.1 (local) Jens Myrup Pedersen <i>Problem Based Learning in the Digital Age</i>		Hands-on Session: HO.2 (online) Miguel Romá <i>Collaborative Annotations in times of Physical Distancing</i>	
11.00 11.30	Coffee Break			
11.30 13.00	Keynote Speaker (local + online) Manuel João Costa <i>Teacher Professional Development in Higher Education – Engaging Students</i>			
13.00 14.30	Lunch			
14.30 16.00	Keynote Speaker / Workshop (online) Eric Mazur <i>Getting Every Student Ready for Every Class</i>			
16.00 16.30	Coffee Break			
16.30 18.00	Paper Session: PS.1 (local) Session Chair: Valquíria Villas-Boas <hr/> 77 - <i>Science Communication in Bioengineering and Biotechnology: active and collaborative learning project</i> (Patrícia Neves, Tatiana Vilaça) <hr/> 76 - <i>Exploring blended learning tools to transform a laboratory course unit in engineering: challenges, setbacks and rewards</i> (Tatiana Vilaça) <hr/> 60 - <i>A problem-based learning experience in engineering education</i> (Valquíria Villas-Boas) <hr/> 68 - <i>How to engage engineering students to Physics: A case report of an Introductory Physics course taught in the first year of an Engineering programme</i> (Cacilda Moura) <hr/> 38 - <i>An innovative approach to computer mathematics teaching in a large engineering class</i> (Isabel Espírito Santo) <hr/>	Paper Session: PS.2 (online) Session Chair: Rui Sousa <hr/> 55 - <i>Production of a Virtual event on Quality Management and Collaborative International Projects using Scrum as a Project Management Methodology</i> (Thiago Lima) <hr/> 18 - <i>Setbacks of the Development of a Concept Inventory for Scrum: Contributions from the Item Response Theory</i> (Rui Lima and Walter Nagai) <hr/> 70 - <i>Characterization of the operators training process at an industrial company</i> (Rui Sousa) <hr/> 71 - <i>Industrial Training Qualitative Evaluation with Fuzzy Logic and an Experience Classification Method</i> (Rui Sousa) <hr/> 58 - <i>The perception of students from a higher education institution regarding the importance of education in OSH subjects during COVID Pandemic</i> (Nelson Costa) <hr/>	Paper Session: PS.3 (online) Session Chair: José Rodrigues <hr/> 4 - <i>Management of digital transformation of educational technology: key elements</i> (Natalia Vatulkina) <hr/> 5 - <i>E-learning development strategy of the university: comparative study</i> (Natalia Vatulkina) <hr/> 15 - <i>Virtualizing project-based learning: an abrupt adaptation of active learning due to the covid-19 pandemic with promising outcomes</i> (Cristiano Reis) <hr/> 25 - <i>Exploring a BPMS system for learning production management with simulation of manufacturing scenarios</i> (José Rodrigues) <hr/> 48 - <i>Game-Based Learning in a production engineering course in Brazil</i> (José Rodrigues) <hr/>	Paper Session: PS.4 (online) Session Chair: Natascha Janssen <hr/> 1 - <i>Teacher collaboration in PBL: setting the example for the students</i> (Anabela Alves) <hr/> 74 - <i>Teaching innovation: comparison between project-based and traditional learning approaches</i> (Sanderson Barbalho) <hr/> 23 - <i>Cases for teaching and learning assessment planning: a study in the perception of teachers and students from two Brazilian universities</i> (Maria Brito) <hr/> 8 - <i>The Show Must Go On: Active Online Collaboration during COVID-19 – Mathematics Students Solving Real-World Problems</i> (Marietjie Havenga, Tertia Jordaan) <hr/> 35 - <i>Mapping the circular economy context within the curricula in the field of Industrial Engineering - comparative study of selected programs in two Polish universities</i> (Tomasz Nitkiewicz) <hr/>
18.00 19.00	PAEE/ALE Challenge (fun online interactive activity)			

09.30 11.00	Students Paper Session: ST.1 (<i>local + online</i>) Session Chairs: Sandra Fernandes Jens Myrup Petersen <hr/> 47 (<i>local</i>) - <i>Preferred Roles of Industrial Engineering and Management Students - An exploratory European analysis</i> (Viktoría Heyen, Maria Serodio) <hr/> 78 (<i>local</i>) - <i>Learning science during summer vacations and its effects on Attitude and Anxiety towards Research</i> (Violeta Carvalho) <hr/> 12 (<i>online</i>) - <i>Development and application of a teaching-learning model among EduScrum and active learning methodologies</i> (Erik Lopes) <hr/> 13 (<i>online</i>) - <i>Desencrenca: a PBL experience on Project Management education</i> (Erik Lopes) <hr/> 46 (<i>online</i>) - <i>CDIO and Biomimicry: a case of study of analysis of the enhanced structural masonry interlock with the nacre interlacing solution</i> (Roberto Silva)	Students Paper Session: ST.2 (<i>online</i>) Session Chairs: Diana Mesquita Marietjie Havenga <hr/> 42 - <i>Using PBL to design a gamified application prototype: the case of waste picker's children financial education</i> (Júlia Brito) <hr/> 64 - <i>Preparation Workshops for Mathematics Olympiads</i> (Júlia Thomazoni) <hr/> 41 - <i>Development of an Integration Methodology for project management in an adapted online environment on a PBL discipline</i> (Júlia Brito) <hr/> 31 - <i>Influence of Improvisation Education to Teamwork Abilities Based on Competency</i> (Shogo Takezaki) <hr/> 19 - <i>Sustainability-focused international PBL project: Rethinking digital education for individuals of low socioeconomic status</i> (Daniel Britze, Jacob Jensen)	Students Paper Session: ST.3 (<i>online</i>) Session Chairs: Anabela Alves Natascha van Hattum-Janssen <hr/> 9 - <i>Perception of Professors and Undergraduate Students of Engineering at the University of Brasília (UnB) on Emergency Remote Learning Period in the context of the Covid-19 Pandemic</i> (Lahra Schemmer) <hr/> 43 - <i>Project Based Learning during the COVID-19 Pandemic: Experiment Reports of Initiatives in Computer Engineering</i> (Victor Hayashi) <hr/> 59 - <i>Online adaptation strategies for active learning methodologies in STEM education</i> (Larissa Santos) <hr/> 33 - <i>A new remote laboratory of a pumping system designed using a low-cost hardware model</i> (José Carretero)	
11.00 11.30	Coffee Break			
11.30 13.00	Hands-on Session: HO.3 (<i>local</i>) Miguel Romá, Montse Farreras, P. Bofill, J. Armengol <i>Promoting creativity through collaborative assessment</i>	Hands-on Session: HO.4 (<i>online</i>) Montse Farreras, Pau Bofill, J. Armengol, M. Romá <i>Plant a seed for the future</i>	Hands-on Session: HO.5 (<i>online</i>) Igor Montagner, Rafael Ferrão, Andrew Kurauchi <i>Creating and publishing active learning handouts</i>	
13.00 14.30	Lunch			
14.30 16.00	Paper Session: PS.5 (<i>local</i>) Session Chair: Teresa Monteiro <hr/> 2 - <i>Online assessment: more student cheating than onsite?</i> (Anabela Alves) <hr/> 28 - <i>Development Process of a Rubric for Assessment of Leadership Competences in Project Management Scenarios</i> (Diana Mesquita, Mariane Souza, Élide Margalho) <hr/> 39 - <i>Integrating project management and peer assessment: a case for increased teamwork</i> (Natascha van Hattum-Janssen) <hr/> 34 - <i>Innovating to improve – an experience in a Computer Engineering programme</i> (Teresa Monteiro) <hr/> 20 - <i>Adapting to Online Education through project-based learning in a complex remote zone (Magallanes /Chile)</i> (Jorge Ortega)	Paper Session: PS.6 (<i>online</i>) Session Chair: Rui Lima <hr/> 65 - <i>Mechanical Engineering Students Project Based Learning in OUAS</i> (Ville Isoherranen) <hr/> 67 - <i>Oamk_Highway – New route for young people towards engineering degree in Northern Finland</i> (Ville Isoherranen) <hr/> 6 - <i>Bringing PBL to Education for Sustainable Development: University to Business (U2B) approach</i> (Tatiana Salimova) <hr/> 40 - <i>Project-based active learning in a robotic master's degree Subject with covid combined face-to-face and online teaching requirements</i> (Vicente Morell) <hr/> 32 - <i>Project-based learning in Robotics subject of a Master's Degree</i> (Vicente Morell)	Paper Session: PS.7 (<i>online</i>) Session Chair: Sandra Fernandes <hr/> 69 - <i>Students' perceptions of the use of traditional methods and active learning strategies in the classroom: findings from a case study</i> (Filomena Lopes, Sandra Fernandes) <hr/> 73 - <i>Active learning in project management: the life cycle of a virtual scientific colloquium and its impact on students' performance</i> (Sanderson Barbalho) <hr/> 72 - <i>Engineering Education Active Learning Maturity Model: a Conceptual Framework</i> (Humberto Arruda) <hr/> 61 - <i>Active methodology: the experience of the land regularization commission (CRF-UFPA) in the agents of registry qualification</i> (Elaine Angelim, Renato das Neves) <hr/> 56 - <i>Student motivation in the first year of University: findings from the implementation of a PBL project for a real context</i> (Sandra Fernandes)	Paper Session: PS.8 (<i>online</i>) Session Chair: Néelson Costa <hr/> 24 - <i>Communication and alignment of expectations in implementing a PBL proposal</i> (Octavio Neto) <hr/> 22 - <i>Development of Capstone Integrative Projects as a tool for learning Design and Process Control in Chemical Engineering</i> (Carlos López) <hr/> 30 - <i>Risk Assessment of Project Based Learning Failure via Bayesian Belief Networks and Analytical Hierarchy Process – A Literature Review</i> (José Pereira) <hr/> 17 - <i>Adapting studio and lab sessions to emergency remote teaching: an analysis of instructor-student interactions</i> (Rafael Ferrão) <hr/> 49 - <i>The use of games in a graduation course in an engineering faculty</i> (José Rodrigues)
16.00 16.30	Coffee Break			
16.30 18.00	Keynote Speaker (<i>online</i>) Maura Borrego <i>Reducing Student Resistance to Active Learning</i>			
19.00 21.00	Conference Dinner			

Day
3

9 July, Friday (online)

09.30
11.00

Industry Panel: IP.1 (online)
Engineering Skills for Industry

Moderator: José Dinis-Carvalho *University of Minho*
Participants: Berta Alonso *Sustainability Department of Inditex*
Alain Afonso *Brunswick Portugal*
Alberto Bastos *Kaizen Institute Portugal*
Jorge Ferreira *IKEA Industry Portugal*

11.00
11.30

Coffee Break

11.30
13.00

Keynote Speaker (online)
John Mitchell
The UCL Integrated Engineering Programme

13.00
13.30

Closing