

### **Active blended learning as a tool focused on industry 5.0 at EuroTeQ Engineering University**

**Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard** 2024 IEEE Global Engineering Education Conference (EDUCON) : proceedings 2024 / p. 1-5 <https://doi.org/10.1109/EDUCON60312.2024.10578688> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Active blended learning engineering students : a case study**

**Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard** Education Sciences 2022 / art. 344 <https://doi.org/10.3390/educsci12050344> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Active blended learning of industry 5.0-oriented sustainable power engineering specialists**

**Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard** First International Conference on Sustainable Energy Education (SEED 2024) : proceedings 2024 / p. 719-725 <https://doi.org/10.4995/SEED2024.2024.19007>

### **Active learning in computer exercises on electronics**

**Raud, Zoja; Vodovozov, Valery** World Academy of Science, Engineering and Technology. International journal of electrical, computer, electronics and communication engineering 2014 / p. 1061-1066 : ill

### **Active learning of students with diverse goals and backgrounds in the light of Industry 4.0 requirements**

**Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard** Proceedings of the 2022 IEEE Global Engineering Education Conference (EDUCON) 2022 / p. 351-355 <https://doi.org/10.1109/EDUCON52537.2022.9766564>

### **Advancements and restrictions of E-assessment in view of remote learning in engineering**

**Raud, Zoja; Vodovozov, Valery** 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 6 p. : ill <https://doi.org/10.1109/RTUCON48111.2019.8982349>

### **Analysis of the program for continuing education of technical teachers on the basis of graduates' feedback results**

**Rüütman, Tiia; Kipper, Hants** Proceedings of 2014 International Conference on Interactive Collaborative Learning (ICL) : 03-06 December 2014, Dubai, UAE 2014 / p. 7-12 : ill

### **Assessing engineering students' attitudes towards corporate social responsibility principles**

Saari, Ulla A.; **Ojasoo, Merle; Venesaar, Urve**; Puhakka, Ilmari; Nokelainen, Petri; Mäkinen, Saku J. European journal of engineering education 2024 / p. 492-513 <https://doi.org/10.1080/03043797.2023.2299731> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **BALTGRAF - 20th jubilee**

**Mägi, Rein** Engineering Graphics BALTGRAF-11 : proceedings of the Eleventh International Conference : Tallinn, Estonia, June 9-10, 2011 2011 / p. 9-14 : ill

### **Building information modelling (BIM) - enabled construction education : teaching project cash flow concepts**

**Olowa, Theophilus Oluwarotimi Olatunde; Witt, Emlyn David Qivitoq; Lill, Irene** International Journal of Construction Management 2021 / p. 1494-1505 : ill <https://doi.org/10.1080/15623599.2021.1979300> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Challenges of academic mobility in view of students inclusion in engineering education**

**Raud, Zoja; Vodovozov, Valery** Proceedings of the 2020 IEEE Global Engineering Education Conference (EDUCON) : Engineering Education for the Future in a Multicultural and Smart World, 27-30 April, 2020, Porto, Portugal 2020 / p. 139-144 : ill <https://doi.org/10.1109/EDUCON45650.2020.9125238>

### **Challenges of active learning in a view of integrated engineering education**

**Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard** Education Sciences 2021 / art. 43 <https://doi.org/10.3390/educsci11020043> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Changes in engineering education in the transition to a digital society**

Makarova, Irina; Boyko, Aleksey; Giniyatullin, Ilmur; **Pashkevich, Anton**; Mukhametdinov, Eduard 2020 21th International Carpathian Control Conference (ICCC) 2020 / 6 p <https://doi.org/10.1109/ICCC49264.2020.9257231>

### **Contemporary teaching methods emphasizing conceptual understanding adapted for engineering education at Estonian Centre for Engineering Pedagogy**

**Rüütman, Tiia; Vanaveski, Jüri** Problems of education in the 21st Century 2009 / p. 159-170

### **Curricula reforms through structural reforms**

**Vaimann, Toomas; Rassõlkin, Anton; Palu, Ivo** 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / p. 1-5 : ill <https://doi.org/10.1109/ICEPDS47235.2020.9249084>

### **Design of the curriculum for continuing education of engineering educators at Tallinn University of Technology**

**Kipper, Hants; Rüttnann, Tiia** Problems of education in the 21st century 2010 / p. 87-96

#### **Digitalization of education as a new destination of e-learning**

Makarova, Irina; Shubenkova, Ksenia; Bagateeva, Angelina; **Pashkevich, Anton** Proceedings of ELMAR-2018 : 60th International Symposium ELMAR-2018 : 16-19 September 2018, Zadar, Croatia 2018 / p. 31-34 : ill <http://doi.org/10.23919/ELMAR.2018.8534662>

#### **Digitalization of engineering education : from e-learning to smart education**

Makarova, Irina; Shubenkova, Ksenia; **Antov, Dago; Pashkevich, Anton** Smart Industry & Smart Education : proceedings of the 15th International Conference on Remote Engineering and Virtual Instrumentation 2019 / p. 32-41 [https://doi.org/10.1007/978-3-319-95678-7\\_4](https://doi.org/10.1007/978-3-319-95678-7_4) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **EDUTECH - good practices in cooperation between schools and academia attracting candidates for technical education**

**Rassõlkin, Anton; Vaimann, Toomas; Kudelina, Karolina;** Stepien, Mariusz; Berger, Kevin 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference proceedings 2020 <https://doi.org/10.1109/RTUCON51174.2020.9316614>

#### **Effective strategies and models for teaching thinking skills and capitalizing deep understanding in engineering education**

**Rüttnann, Tiia; Vanaveski, Jüri** Problems of education in the 21st Century 2009 / p. 176-187

#### **Engineering students mobility: intercultural barriers to achieving intercultural competences**

**Vodovozov, Valery; Raud, Zoja** Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Volume 2 2021 / p. 248-255 [https://doi.org/10.1007/978-3-030-68201-9\\_78](https://doi.org/10.1007/978-3-030-68201-9_78) [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **EuroTeQ as an alliance to promote European engineering education**

**Vodovozov, Valery; Raud, Zoja; Lehtla, Madis** Proceedings of the 15th International Conference on Computer Supported Education (CSEDU 2023). Vol. 2 2023 / p. 601-607 <https://doi.org/10.5220/0011824900003470>

#### **EuroTeQ Project : first impressions and estimates**

**Vodovozov, Valery; Lehtla, Madis; Raud, Zoja** 2022 IEEE 63th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON): conference proceedings 2022 / 5 p <https://doi.org/10.1109/RTUCON56726.2022.9978799>

#### **Evaluation of immersive project-based learning experiences**

**Rüttnann, Tiia; Witt, Emlyn David Qivitoq; Olowa, Theophilus Oluwarotimi Olatunde;** Puolitaival, Taija; Bragadin, Marco 18th CDIO : International Conference : proceedings - full papers 2022 / p. 313-323 [https://en.ru.is/media/cdio2022/CDIO\\_2022\\_Proceedings.pdf](https://en.ru.is/media/cdio2022/CDIO_2022_Proceedings.pdf)

#### **Exploring engineering students' entrepreneurial learning [Electronic resource]**

Täks, Marge; **Toding, Martin** Doctoral Summer School 2012 : doctoral school in economics and innovation : 24-27 July 2012, Nelijärve, Estonia 2012 / 20 p. : ill [CD-ROM]

#### **Gen Z oriented engineering education in the "Industry 4.0" age**

**Raud, Zoja; Vodovozov, Valery; Petlenkov, Eduard** 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 / p. 1-4 <https://doi.org/10.1109/RTUCON60080.2023.10413087>

#### **Generating curricula: A human-centred perspective in the era of artificial intelligence**

**Rüttnann, Tiia;** Läänemets, Urve Science and Technology Education : Expectations and Experiences : Proceedings of the 6th International Baltic Symposium on Science and Technology Education (BalticSTE2025) 2025 / p. 180-196 <https://doi.org/10.33225/BalticSTE/2025.180>

#### **Integration of non-technical engineering competences into contemporary engineering curricula**

**Rüttnann, Tiia; Parts, Velli; Teichmann, Mare; Kipper, Hants** International journal of engineering pedagogy 2013 / p. 20-25

#### **An international hands-on IoT education platform towards Industry 5.0**

**Sell, Raivo;** Czekalski, Piotr; Tokarz, Krzysztof; Kuaban, Godlove Suila; Nikitenko, Agris; Berkolds, Karlis; Lipka, Lukasz Proceedings of the Estonian Academy of Sciences 2025 / p. 198-204 <https://doi.org/10.3176/proc.2025.2.21>

#### **The International Society for Engineering Pedagogy : 1972-2022**

Polyakova, Tatiana; Prikhodko, Viacheslav; **Rüttnann, Tiia;** Auer, Michael E. 2023 <https://doi.org/10.1007/978-3-031-19890-8> [https://www.ester.ee/record=b5746643\\*est](https://www.ester.ee/record=b5746643*est)

#### **Learner perceptions of construction industry knowledge and skills requirements**

**Witt, Emlyn David Qivitoq; Lill, Irene** Recent Researches in Social Science, Digital Convergence, Manufacturing and Tourism : International Conference on Social Science, Social Economy and Digital Convergence (IC-SSSE-DC '11) : International Conference on Manufacturing, Commerce, Tourism and Services (ICM-CTS '11) : Lanzarote, Canary Islands, Spain, May 27-29, 2011 2011 / p.

**Lifelong learners in engineering education – students' perspectives**

Witt, Emlyn David Qivitoq; **Lill, Irene** International journal of education and information technologies 2012 / p. 9-16 : ill  
[https://www.academia.edu/67465730/Lifelong\\_Learners\\_in\\_Engineering\\_Education\\_Students\\_Perspectives](https://www.academia.edu/67465730/Lifelong_Learners_in_Engineering_Education_Students_Perspectives)

**Methodology and international collaboration in teaching reconfigurable systems**

Sklyarov, Valery; Skliarova, Iuliia; **Sudnitsõn, Aleksander** The 2012 IEEE Global Engineering Education Conference (IEEE EDUCON 2012), Marrakesh, Morocco, Apr. 17-20, 2012 2012 / p. 1143-1152 : ill  
[https://www.researchgate.net/publication/254034783\\_Methodology\\_and\\_international\\_collaboration\\_in\\_teaching\\_reconfigurable\\_systems](https://www.researchgate.net/publication/254034783_Methodology_and_international_collaboration_in_teaching_reconfigurable_systems)

**Modern mechatronics and robotics education program: border cooperation between Estonia and Russia**

**Rassõlkin, Anton; Vaimann, Toomas; Kudelina, Karolina;** Demidova, Galina; Lukichev, Dmitry; Perepelkina, Svetlana  
 Proceedings of the 2020 IEEE Global Engineering Education Conference (EDUCON) : Engineering Education for the Future in a Multicultural and Smart World, 27-30 April, 2020, Porto, Portugal 2020 / p. 1272-1277 : ill  
<https://doi.org/10.1109/EDUCON45650.2020.9125406>

**Modern training courses increasing awareness of environmental protection**

Veg, Lukas; Jelen, M.; **Rassõlkin, Anton;** Stępien, M.; Zygmanski, Marcin Przegląd elektrotechniczny = Electrical review 2025 / p. 68-72 <https://doi.org/10.15199/48.2025.05.14> <http://pe.org.pl/articles/2025/5/14.pdf>

**Ontology-based design of educational trajectories**

**Raud, Zoja; Vodovozov, Valery; Petlenkov, Eduard; Serbin, Aleksandr** 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 4 p. . ill <https://doi.org/10.1109/RTUCON.2018.8659893>

**Ontology-based design of the learner's knowledge domain in electrical engineering**

**Raud, Zoja; Vodovozov, Valery** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2019 / p. 47-53 : ill <https://doi.org/10.2478/ecce-2019-0007>

**Reconfigurable systems in engineering education : best practices and future trends**

Skliarova, Iuliia; Sklyarov, Valery; **Sudnitsõn, Aleksander; Kruus, Margus** Proceedings of 2017 IEEE Global Engineering Education Conference (EDUCON) : 25-28 April 2017, Athens, Greece 2017 / p. 1084-1088 : ill  
<https://doi.org/10.1109/EDUCON.2017.7942983>

**Research and development of an active learning technology for university-level education in the field of electronics and power electronics = Aktiivõppetehnoloogia uurimine ja väljatöötamine kõrghariduse õppekavale elektroonika ja jõuelektroonika valdkonnas**

**Raud, Zoja** 2012 [https://www.ester.ee/record=b2781667\\*est](https://www.ester.ee/record=b2781667*est)

**The Role of AI Chatbots in Engineering Education: Experimental Findings and Implementation Strategies**

**Sell, Raivo; Razdan, Rahul; Kase, Kart; Rüttnann, Tiia** International Journal of Engineering Pedagogy 2025 / p. 4-19  
<https://doi.org/10.3991/ijep.v15i5.56681> <https://online-journals.org/index.php/i-jep/article/view/56681>

**Scholarly teaching and scholarship of teaching and learning in teaching engineering**

**Rüttnann, Tiia;** Saar, Merike Proceedings of 2017 IEEE Global Engineering Education Conference (EDUCON) : 25-28 April 2017, Athens, Greece 2017 / p. 213-218 : ill <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&number=7942850>  
<https://doi.org/10.1109/EDUCON.2017.7942850>

**Strategies and techniques of questioning effectuating thinking and deep understanding in teaching engineering at Estonian Centre for Engineering Pedagogy**

**Kipper, Hants; Rüttnann, Tiia** Problems of education in the 21st century 2010 / p. 36-45

**Strengthening active learning with a reinforcement approach in engineering education**

**Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard** 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 5 p <https://doi.org/10.1109/RTUCON62997.2024.10830891>

**Teaching for understanding in engineering education**

**Kipper, Hants; Rüttnann, Tiia** International journal of engineering pedagogy 2013 / p. 55-63

**Teaching for understanding in engineering education [Electronic resource]**

**Kipper, Hants; Rüttnann, Tiia** 2012 15th International Conference on Interactive Collaborative Learning (ICL) : Villach, Austria 26–28 September 2012 2012 / [9] p. [CD-ROM]  
[https://minas.medellin.unal.edu.co/images/iei/recursos/docencia\\_en\\_ingenieria/Teaching\\_for\\_Understanding\\_in\\_Engineering\\_Educatio.pdf](https://minas.medellin.unal.edu.co/images/iei/recursos/docencia_en_ingenieria/Teaching_for_Understanding_in_Engineering_Educatio.pdf)

**Teaching FPGA-based systems**

Skliarova, Iuliia; Sklyarov, Valery; **Sudnitsõn, Aleksander; Kruus, Margus** 2014 IEEE Global Engineering Education Conference

(EDUCON) : Istanbul, Turkey, April 2-5, 2014 2014 / p. 460-469 : ill

### **Teaching rapid application development skills for digitalisation challenges**

**Robal, Tarmo; Reinsalu, Uljana; Leoste, Janika; Jürimägi, Lembit; Heinsar, Risto** Digital Business and Intelligent Systems : 16th International Baltic Conference, Baltic DB&IS 2024, Vilnius, Lithuania, June 30 – July 3, 2024, Proceedings 2024 / p. 177-192 : ill [https://doi.org/10.1007/978-3-031-63543-4\\_12](https://doi.org/10.1007/978-3-031-63543-4_12) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Teaching, learning, and assessment in electronics using concept mapping technology**

**Raud, Zoja; Vodovozov, Valery** Recent Advances in Electrical Engineering : proceedings of the 4th International Conference on Circuits, Systems, Control, Signals (CSCS '13), proceedings of the 1st International Conference on Electronics and Electrical Engineering (ELEE '13) : Valencia, Spain, August 6-8, 2013 2013 / p. 102-107 <https://www.semanticscholar.org/paper/TEACHING%2C-LEARNING%2C-AND-ASSESSMENT-INTEGRATION-IN-Raud-Vodovozov/cb585ef4d9928282bda584b05ad9cc3129a18de8>

### **The effect of language proficiency on course results**

**Witt, Emlyn David Qivitoq; Lill, Irene** Journal of e-learning and higher education 2014 / p. 1-12 : ill

### **The relationship between entrepreneurship competence in engineering educators and engineering pedagogy competences**

**Noppel, Airi** Research in economics and business : Central and Eastern Europe 2018 / p. 55-73  
<http://www.rebcee.eu/index.php/REB/article/view/127>

### **The Use of DigSilent Power Factory Simulator for "Introduction into Power Systems" Lectures**

**Astapov, Victor; Palu, Ivo; Vaimann, Toomas** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2018 / p. 95-99 : ill <https://doi.org/10.2478/ecce-2018-0011>

### **Using mobile technology to enhance teaching reconfigurable systems**

Skliarova, Iuliia; Sklyarov, Valery; **Sudnitsõn, Aleksander; Kruus, Margus** Proceedings of 2013 IEEE International Conference on Teaching, Assessment and Learning for Engineering (TALE) 2013 / p. 478-483 : ill

### **Virtual lab to study power electronics in LabVIEW framework**

**Raud, Zoja; Vodovozov, Valery** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 6 p  
<https://doi.org/10.1109/PQ.2019.8818275>

### **Virtual laboratories: engineers' training for automotive industry**

Makarova, Irina; Boyko, Aleksey; Shubenkova, Ksenia; **Pashkevich, Anton**; Giniyatullin, Ilmur 17 International Conference on Emerging Learning Technologies and Applications, November 21-22, 2019 Stary Smokovec, The High Tatras Slovak Republic : proceedings 2019 / 7 p. : ill <https://doi.org/10.1109/ICETA48886.2019.9040074>

### **Work in progress - semantic annotations and teaching analytics on lecture videos in engineering education**

Saar, Merike; Kusmin, Marge; Laanpere, Mart; Prieto, Luis P.; **Rütmann, Tiia** Proceedings of 2017 IEEE Global Engineering Education Conference (EDUCON) : 25-28 April 2017, Athens, Greece 2017 / p. 1548-1551  
<http://dx.doi.org/10.1109/EDUCON.2017.7943055>

### **A workflow for extended reality-based learning in engineering education**

**Kuts, Vladimir; Otto, Tauno; Boychuk, Rostyslav; Mahmood, Kashif; Pizzagalli, Simone Luca** Proceedings of the Estonian Academy of Sciences 2025 / p. 103-108 <https://doi.org/10.3176/proc.2025.2.03>