









# NEWSLETTER

Issue # 4 / April 2019 – October 2019 /

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## Ready, steady, go! SES curricula launched

In the fall semester of 2019/2020 academic year, Russian and Vietnamese partners of ESSENCE consortium started the piloting of SES curricula and courses. While some partners are piloting one or two developed courses under existing master programs three Russian partners have launched new programs encompassing all 10 disciplines developed under the project:

- **P5/INRTU** launched a new master program "Digital power engineering" and enrolled 15 students;
- **P6/UrFU** opened the program "Design and operation of power engineering systems" with 6 students enrolled;
- **P7/KSPEU** launched a new master program "Smart energy systems" and recruited 6 students.



### Headhunting completed successfully

To recruit students for new master programs, Russian partners P5/INRTU, P6/UrFU and P7/KSPEU organized targeted information sessions as well as used tools and channels provided under regular recruitment campaigns at universities such as webinars, promo videos, off-campus presentations, open-doors etc. Main target group of the events became bachelor students of their last year majoring in power engineering and related specialties. [More information >>](#)



### Beneficial pre-piloting



The course "Artificial intelligence and machine learning" developed by P6/UrFU was for the first time implemented for foreign students within the framework of Summer University 2019 held at P6. Under the Ideathon - one of the University's activities - within the track "Energy" students from India and France were looking for the solution of technical state assessment problem of high-voltage power transformers using machine learning approaches. [More information >>](#)

### ESSENCE creates spinoffs

At the end of October 2019, the delegation of P6/UrFU visited 5 large universities in India. Deputy Vice-Rector for Academic Affairs and Director of the Department of International Educational Programs at UrFU presented Summer University 2020 "Machine Learning and AI in the Renewable Energy Sector" and short-term training programs including "Machine Learning in Power Industry" to Indian colleagues and students. Both projects



are the spin-offs of ESSENCE and delivered by project team members, developers Aleksandra Khalyasmaa and Stanislav Eroshenko.



## Becoming more recognizable



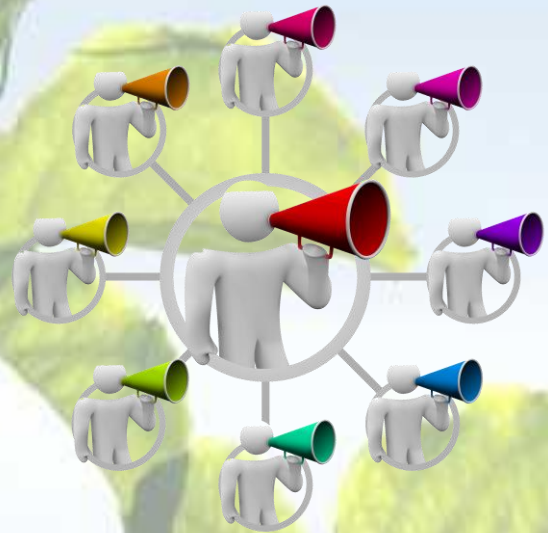
To attract more attention to the project and recruit students for the new programs different types of promotional materials have been designed.

## Keep updated

### P1 / Riga Technical University

On October 8, 2019 WP5 leader Anastasia Ziravecka presented the project at RTU International Conference **RTUCON'19**, section of education in engineering, with the information of basic approach and aspects of quality assurance and control of developed courses and programs implementation. The presentation was in the focus of attention and became an excellent opportunity to discuss quality assurance challenges and share good practices.

At the end of October the challenges in the field of energy, including ESSENCE project and its main goals, were presented by P1 representative Laila Zemite during the award event of the winners of **Latvian Association of Power Engineers and Energy Constructors**. The aim of the competition is to reward the best closing work in the field of energy and electrical engineering by promoting the quality of work and cooperation of industry with universities and students. Under the awards event, presentations of industry and academia representatives were held



drawing the winners' attention to future challenges and the importance of their sector.

### P3 / Technical University of Kosice

P3 presented ESSENCE project during the teacher mobility visit to the **University of VŠB TU Ostrava (Czech Republic)** in May 2019. One of the topics concerned the realized and ongoing projects at individual universities and departments. A very good response was given to the lecture about ESSENCE. [More information >>](#)

### Russian partners of the consortium

P4/TPU, P5/INRTU, P6/UrFU, and P7/KSPEU presented ESSENCE project results at the 10th-anniversary **international conference “Electric power industry in the eyes of youth-2019”**. [More information >>](#)

### P5 / Irkutsk National Research Technical University

Academic supervisor of the project at P5 Konstantin Suslov has become an invited speaker at the **international conference “Innovative Smart Grid Technologies Europe (ISGT Europe)”** and shared experience on ESSENCE project realization. [More information >>](#)

### P6 / Ural Federal University

The prospects of realization of SES curriculum were highly appreciated by the participants of the meeting of the **Union of Industrialists and Entrepreneurs of Sverdlovsk Region**. [More information >>](#)

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### P9 / Ho Chi Minh City University of Technology and Education

In October 2019 P9 introduced ESSENCE project to the staff of the **Solar farm of the Pacifico Company** located in Ninh Thuan Province (Vietnam). The company was visited by P9 representatives with the aim to exchange expertise between the University teachers/researchers and the management and engineers of the plant for up-to-date technology applications and solutions. ESSENCE project was evaluated by the host company as a very promising and on-time program to prepare for human resources of the field in the very near future.

## The mid-point passed







In April 2019 ESSENCE team submitted a mid-term report covering 1-18 months of the project implementation to EACEA for evaluation. After a thorough examination of the report and results of field monitoring visits, EACEA approved the report and qualified the project implementation as GOOD. The EACEA spotted that the project fully complies with the national strategy for the Energy sector of Russia and Vietnam as well as they positively noted that industry-oriented and student-centered properties of curricula and separate courses are well tracked through the project lifecycle. Experts

also noted that the project website has a professional layout, well-structured and provides good coverage of the project progress. Besides, the project received valuable recommendations on how to improve its implementation.





## Upcoming events

-  Familiarizing with the new lab equipment
-  Harmonizing SES curricula and teaching materials
-  QA visit of EU consortium members to RU and VN partner universities
-  Project management team meeting at P4/TPU
-  RU/VN teachers mobility
-  Project partner meeting at P9/HCMUTE

For more information



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