

**Conférence, 1 Avril 2019 à 10h30  
Salle F200**

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### **E-learning as a Tool to Enhance the Quality and Effectiveness of Traditional Teaching Methods in Practice**

The technological environment of the 21st century has a direct impact on education. Children, who start to attend schools today, will be employed as high skilled experts in 2034. We have no exact idea what kind of conditions, level of science and technology awaits them. Since we cannot predict the future, we should at least try to adapt teaching nowadays. Our basic task is to lead students to think critically, to work with high adaptability and flexibility and to support their individuality and creativity. Last but not least to increase intrinsic motivation of them about knowledge and learning of new ones. Because the future cannot be foreseen, it is necessary to maintain theoretical and practical knowledge of the graduates on the highest possible level, update educational process so that the graduates leaving to join the praxis are best prepared for this change. Facing some of these challenges we see the solution in effective application of information and communications technologies and new pedagogical approaches. Our answer to electrical engineering education was the creation of the alternative sources of information – educational portals e-Learn central on the educational platform MOODLE of interactive educational materials, courses and projects to our students as a support for the standard face-to-face education. As an example we introduce our first course “Electronic devices and circuits”, which contains information about the subject, successful completion requirements, lectures in pdf, exercise sheets and materials for exercises, exam questions, discussion forums, tests, and announcements. From the students’ results as well as their feedback, we can conclude that this approach (lectures + practical exercises preferring experimental work in pairs + complex e-learning support) is working as a possibility of students’ motivation growth, as well as effective tool for increasing the quality of technical education. Our experiences were successfully used and are still being used in development of e-learning support for our students for other subjects, individual and team projects, as well as in creating e-learning materials for a wide target group: bachelors, elementary and secondary school pupils and general public in the form of popularization of science and technology. The aim of this seminar is the presentation of our experience in designing and realization of the interactive e-learning courses and projects allocated on three educational portals for students “e-Learn central”. The portal e-Learn central has been used as a support to a standard face-to-face education at the STU in Bratislava since 2004, and for popularization of science and technology between children, youth and general public since 2009.