

## **Training of differential equations in the basic studies of mathematics in the University of Latvia: ways and advancement**

Jānis Cepītis

University of Latvia, Faculty of Physics and Mathematics

8, Zeļļu Street, Rīga, Latvia, LV - 1002

e-mail: [Janis.Cepitis@lu.lv](mailto:Janis.Cepitis@lu.lv)

The alignment of study courses in differential equations is one of essential extensions of mathematical analysis with significant role for mathematical modelling of nature and technological processes. It is subjacent for the educational skills which are prerequisite for joining in the elaborations of mathematical technologies. Currently the qualitative theory of nonlinear ordinary and partial differential equations noticeably increase as well as the theory of differential equations in time scale which allows looking differential equations and difference equations from the common view. The ways of differential equations teaching in the University of Latvia and advancement for the above mentioned aims will be considered.