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Development of the information and analytical system in the control of management of university scientific and educational activities(Article)

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In the article a concept of the result-oriented management is presented. The concept is based on the methodology of the indicative planning of the university scientific and educational activities and presented as formalized procedures. Particular attention is paid to the system of indicators, their formalization and algorithms to design the analytics of the educational system functioning. Moreover, the incentive rating model for the scientific and educational activities of the university staff is considered. The model contains the indicators that agree with the university indicative plans. In addition, in the article the structure scheme of the management of the information flows in the information and analytical system in the contour of the university management is described. The agent-oriented approach to the management of the scientific and educational activities of the university is considered. The rule base for the evaluation of the indicators state is described. It allows determining the state of the indicator regarding the achievement of the desired state of the scientific and educational activities and formalizing the dataset for the evaluation of the attainability of the university development plan. The information and analytical system in the contour of the management of the scientific and educational activities of the university is presented as a tool for the management of the university business-processes. © 2018, Budapest Tech Polytechnical Institution. All rights reserved.