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CAREER GUIDANCE MANAGEMENT IN TRANSFORMING UNIVERSITIES DURING THE CANDIDATES' SELECTION AND SUPPORT FOR TRAINING IN ADVANCED ENGINEERING SCHOOLS

Anna Melnikova

Candidate of Economics, associate Professor of the Department of Economics and Finance
in Perm National Research Polytechnic University
Perm, Russia

Irina Gerasimchuk

Deputy Head of the Educational and Methodological Department,
senior lecturer of the Innovative Technologies of Mechanical Engineering Department
in Perm National Research Polytechnic University
Perm, Russia

Abstract. The authors present in this scientific study relevant concepts for managing the applicants' selection to advanced engineering schools of transforming universities, with an emphasis on the universities' orientation to solving frontier problems and achieving scientometric indicators. New tools for schoolchildren' professional orientation from applicants to students on the principle of "accompanying career building throughout life" are considered. The paper proposes schemes for a two-level education system: bachelor's (specialist) and master's degree, taking into account the customers' (partner enterprises) requirements, as well as several alternative scenarios for the candidates' admission for training in higher educational institutions. The principles of applications' selection for admission to engineering educational projects are systematized, as well as the criteria and indicators of the system for assessing candidates for two levels training - bachelor's and master's programs. A navigation center model for the joint interaction of T-universities with schoolchildren, applicants, students and graduates has been developed, which is a multi-level system of support and guidance for students in their professional development, with an emphasis on

personal characteristics, a typology of thinking and human resource potential of regions. The proposed model includes not only the applicants' recruitment, but also their self-competencies' development, the construction of life and personal growth; the center's activities principles are also defined.

Keywords: university management; advanced engineering schools; applicants; applicants' selection and recruitment; career support; self-competencies; career guidance.

JEL codes: I23; I25; I21; M53.

References

1. Shchedrovitsky, P.G. (2021) Criticism of pedagogical reason. Works 1985–2004. Moscow: Political encyclopedia. 551 p.
2. Wissema, J.G. (2009) Third Generation University. Olymp Business. 480 p.
3. Shchedrovitsky, P.G. (2021) Materials for the development program "Technologies of thinking". Issue 3. M.: Buki Vedi. 280 p.
4. Volkov, A.E. (2013) Unsolvability problems as a basis of higher education. Interview with A., Volkov, dean of Moscow school of management Skolkovo // Educational studies. Moscow. No. 1. P.: 273-277.
5. Luksha, P.O.; Sigova, S.V.; Serebryakov, A.G. (2013) Formation of the list of demanded competencies: the first experience of Russia // Continuous education: XXI century. No. 1. 18 p.
6. Samoilov, L.P. (2008) Text as a meaning phenomenon of culture and engineering education // Bulletin of the Tver State University. Series: Philology. No. 14. P.: 116-123.
7. Sharipov, F. F.; Krotenko, T.Y.; Dyakonova, M.A. (2021) Transdisciplinary strategy of continuing engineering education // Lecture Notes in Networks and Systems. Vol. 139. P.: 480-488.
8. Melnikova, A.S.; Shisterova, Yu.S.; Gubina, V.D. (2019) Atlas of new financial and economic professions, taking into account the digitalization of personnel / In the collection: Sustainable development: society, ecology, economy. Materials of the XV international scientific conference. In 4 parts. Edited by A.V., Semenov; N.G., Malysheva. P.: 434-443.
9. Melnikova, A.S.; Melashenko, A.Ya.; Lezhneva, V.V. (2016) Conceptual model of the university of the XXI century / Educational and upbringing strategies in modern society: Sat. scientific tr. according to the results of the international scientific-practical. Conf., Nizhny Novgorod. May 31, 2016 / NOU Prof. science - Nizhny Novgorod. 11 p.
10. Gerasimchuk, I.L.; Karmanov, V.V.; Karmanova, S.V. (2015) Improving the structure of engineering education within the framework of strategic partnership with enterprises // Higher education in Russia. No. 4. P.: 56-61.

11. Shchedrovitsky, P.G. (2018) Three industrializations of Russia. Moscow: Terra Fantastica. 150 p.

Contact

Anna Melnikova

Perm National Research Polytechnic University

29, Komsomolsky ave., 614000, Perm, Russia

dew244@yandex.ru

Irina Gerasimchuk

Perm National Research Polytechnic University

29, Komsomolsky ave., 614000, Perm, Russia

dpo@pstu.ru