

Analysis of the Project Method Features in Engineering Personnel Training

M.I. Abashin¹, N.E. Bauman Moscow State Technical University, Dr., abashin@bmstu.ru
O.V. Zarubina², N.E. Bauman Moscow State Technical University, Dr., ov_zarubina@mail.ru
V.M. Korneeva³, N.E. Bauman Moscow State Technical University, Prof. Dr., v_korneeva@list.ru
S.S. Korneev⁴, N.E. Bauman Moscow State Technical University, Dr.
V.A. Moiseev⁵, N.E. Bauman Moscow State Technical University, Dr.

^{1,2} Associate Professor, Technologies of Rocket and Space Mechanical Engineering Department, Moscow, Russia

³ Professor, Metrology and Interchangeability Department, Moscow, Russia

^{4,5} Associate Professor, Technologies of Rocket and Space Mechanical Engineering Department, Moscow, Russia

Citation: Abashin M.I., Zarubina O.V., Korneeva V.M., Korneev S.S., Moiseev V.A. Analysis of the Project Method Features in Engineering Personnel Training, *Kompetentnost'*, 2019, no. 1, pp. 14–18

key words

project-learning technologies,
engineering training, project
engineering, competence approach

The given article is devoted to the application of the project method in the engineering personnel training.

Special attention was paid to its place in pedagogical science and practice, as well as the role and technologies of the project training, its advantages and disadvantages and possible risks in its implementation.

We have analyzed the structure of project training and ways to improve the level of specialists' training in accordance with the demands of labor market.

We believe that the project method of training engineering personnel meets the modern needs of the economy. The implementation of this training model requires the development of a corresponding Road Map. Its implementation will allow universities to improve the quality of graduates' education, ensuring their compliance with the requirements of employers.

References

1. Michasova O.V. Primenenie proektnogo metoda i metodik aktivnogo obucheniya dlya razvitiya sistemnogo myshleniya u studentov [Application of project method and methods of active learning for the development of system thinking of students], *Vestnik Nizhegorodskogo universiteta im. N.I. Lobachevskogo*, 2016, no. 1(41), pp. 179–184.
2. Lavrent'eva O.S. K voprosu ob aktivnykh metodakh i priemakh obucheniya v proyektnoy deyatel'nosti [On the issue of active methods and techniques of training in project activities], *Obrazovatel'naya sreda segodnya: strategii razvitiya*, 2015, no. 1(2), pp. 395–397.
3. Muzalevskiy D.S., Gapanyuk Yu.E. Primer proektnogo podkhoda k obucheniyu v oblasti obrabotki bol'shikh dannykh na osnove postroeniya rekomendatel'noy sistemy s primeneniem metodov kollaborativnoy fil'tratsii s ispol'zovaniem APACHE SPARK i PYTHON [An example of a project approach to training in the field of big data processing based on building a recommender system using collaborative filtering methods with APACHE SPARK and PYTHON implementation], *Nauka i obrazovanie: nauchnoe izdanie MGTU im. N.E. Baumana*, 2016, no. 7, pp. 251–259.
4. Galinovskiy A.L., Khapaeva S.S., Khaulin A.N. Opyt i perspektivy realizatsii inzhenerno-tehnologicheskogo obucheniya shkol'nikov [Experience and prospects of the engineering and technology education for students], *Vestnik Moskovskogo gosudarstvennogo oblastnogo universiteta*, Seriya: Pedagogika, 2016, no. 3, pp. 100–109.
5. Ozhegov S.I., Shvedova N.Yu. Tolkovyy slovar' russkogo yazyka [Explanatory dictionary of the Russian language], Moscow, *ITI TEKHNOLOGII*, 2003.
6. Selevko G.K. Entsiklopediya obrazovatel'nykh tekhnologiy [Encyclopedia of educational technology], Moscow, *NII shkolykh tekhnologiy*, 2006; <http://www.selevko.net/bio.php>.
7. Abashin M.I., Galinovskiy A.L., Zosimov M.V., Moiseev V.A. Analiz tendentsiy razvitiya inzhenernogo obrazovaniya v stranakh, imeyushchikh vysokiy uroven' innovatsionnogo i tekhnologicheskogo razvitiya [Analysis of the engineering education development trends in countries with a high level of innovation and technological growth], *Vestnik Kostromskogo gosudarstvennogo universiteta*, 2016, v. 22, no. 3, pp. 22–28.
8. Abashin M.I., Vinokurova E.V., Galinovskiy A.L., Korshunov S.V. Mirovye tendentsii sovershenstvovaniya sistemy podgotovki inzhenerov [Global trends in improving the system of engineers' training], *Vestnik Moskovskogo gosudarstvennogo oblastnogo universiteta*, 2014, no. 2, pp. 57–65.
9. Galinovskiy A.L., Vinokurova E.V., Shevchun V.N. Voprosy sertifikatsii i nezavisimoy otsenki kachestva podgotovki vypusknikov [Issues of certification and independent assessment of the graduate students' training quality], *Nauka i obrazovanie: nauchnoe izdanie MGTU im. N.E. Baumana*, 2011, no. 13, 22 P.
10. Galinovskiy A.L. Perspektivy povysheniya kachestva obrazovatel'nogo protsessa v aspiranture fiziko-tehnicheskogo profilya za schet informatsionno-analiticheskogo obespecheniya [Prospects for improving the quality of the educational process in the graduate school of physical and technical profile through information and analytical support], *Otkrytoe obrazovanie*, 2006, no. 1, pp. 29–34.
11. Verbitskiy A.A. Kompetentnostnyy podkhod i teoriya kontekstnogo obucheniya [Competence approach and contextual learning theory], Moscow, *ITS PKPS*, 2004, 84 P.
12. Galinovskiy A.L., Khapaeva S.S. Voprosy i zadachi razvitiya magistratury v inzhenernykh vuzakh [Issues and objectives of the Magistracy development in engineering universities], *Vestnik Moskovskogo gosudarstvennogo oblastnogo universiteta*, 2015, no. 2, pp. 108–115.
13. Asmolov A.G. Kak proektirovat' universal'nye uchebnye deystviya v nachal'noy shkole: ot deystviya k mysl'i [How to design universal learning activities in primary school: from action to thought], Moscow, *Prosveshchenie*, 2008, 151 P.
14. Verbitskiy A.A. Kontekstno-kompetentnostnyy podkhod k modernizatsii obrazovaniya [Context-competence approach to the education modernization], *Vysshhee obrazovanie v Rossii*, 2010, no. 5, pp. 32–37.
15. The European Qualifications Framework for Lifelong Learning (EQF) Luxembourg: Office for Official Publications of the European Communities, 2008, 15 P.; http://ecompetences.eu/wp-content/uploads/2013/11/EQF_broch_2008_en.pdf.
16. D'yui Dzh. Obshchestvo i ego problemy [Society and its problems], Per. s angl. I.I. Myurberg, A.B. Tolstova, E.N. Kosilovoy, Moscow, *Ideya-Press*, 2002, 160 P.