

S. Ivanova, L. Dimitrov, V. Ivanov and G. Naleva, "An Experiment on the Joint use of the Heuristic and Project Methods at the University," *2019 II International Conference on High Technology for Sustainable Development (HiTech)*, Sofia, Bulgaria, 2019, pp. 1-5, doi: 10.1109/HiTech48507.2019.9128248.

An Experiment on the Joint use of the Heuristic and Project Methods at the University

Svitlana Ivanova Lubomir Dimitrov Viktor Ivanov and Galyna Naleva

doi: 10.1109/HiTech48507.2019.9128248

[Svitlana Ivanova](#)

dept. Mathematics and its teaching methods, University named after K.D. Ushynsky, Odesa, Ukraine

[Lubomir Dimitrov](#)

dept. Mechanical Engineering, Technical University of Sofia, Sofia, Bulgaria

[Viktor Ivanov](#)

dept. Mechanical Engineering and elements of machine, Odessa National Polytechnic University of organization, Odesa, Ukraine

[Galyna Naleva](#)

Department of Higher Mathematics, National University "Odesa Maritime Academy", Odesa, Ukraine

Keywords

• INSPEC: Controlled Indexing

- [educational institutions](#),
- [innovation management](#),
- [team working](#)

• INSPEC: Non-Controlled Indexing

- [project team work](#),
- [team members](#),
- [heuristic method](#),
- [project method](#),
- [creativity enhancement method](#),

S. Ivanova, L. Dimitrov, V. Ivanov and G. Naleva, "An Experiment on the Joint use of the Heuristic and Project Methods at the University," *2019 II International Conference on High Technology for Sustainable Development (HiTech)*, Sofia, Bulgaria, 2019, pp. 1-5, doi: 10.1109/HiTech48507.2019.9128248.

- [university](#),
- [students personality types](#)

- **Author Keywords**

-

[project method](#),

- [heuristic methods](#),
- [personality types](#)

Abstract:

An experiment was conducted to check the relationship between the results of the project team work and the selection of team members that takes into account personality types of students. In the first kind of project team there were participants without special advance preparation. The second and third kinds of project teams were going through special trainings in creativity enhancement method. In addition, a third kind of project teams composed of the participants according to their personality types. The experiment showed that the third kind of project teams coped with tasks much better than other groups.

Published in: [2019 II International Conference on High Technology for Sustainable Development \(HiTech\)](#)

Date of Conference: 10-11 Oct. 2019

Date Added to IEEE Xplore: 30 June 2020

ISBN Information:

INSPEC Accession Number: 19733104

DOI: [10.1109/HiTech48507.2019.9128248](#)

Publisher: IEEE

Conference Location: Sofia, Bulgaria, Bulgaria

I. Introduction

During the implementation of the competence approach in the teaching-learning process project method or project technology becomes relevant [1]. An essential feature of a project method in a university is the application of predominantly long-term projects [2]. For example, a typical project team, created to perform a degree project or course project, should function for 1-2 semesters. For a project team that performs complex interdisciplinary or research projects, the term of operation is even longer (3-5 semesters).

S. Ivanova, L. Dimitrov, V. Ivanov and G. Naleva, "An Experiment on the Joint use of the Heuristic and Project Methods at the University," *2019 II International Conference on High Technology for Sustainable Development (HiTech)*, Sofia, Bulgaria, 2019, pp. 1-5, doi: 10.1109/HiTech48507.2019.9128248.

An Experiment on the Joint use of the Heuristic and Project Methods at the University

Publisher: **IEEE**

[Cite This](#)

[PDF](#)

Svitlana Ivanova ; Lubomir Dimitrov ; Viktor Ivanov ; Galyna Naleva [All Authors](#)

7
Full
Text
Views



Need Full-Text
access to IEEE Xplore
for your organization?
[REQUEST A FREE TRIAL >](#)

Abstract

Abstract:

An experiment was conducted to check the relationship between the results of the project team work and the selection of team members that takes into account personality types of students. In the first kind of project team there were participants without special advance preparation. The second and third kinds of project teams were going through special trainings in creativity enhancement method. In addition, a third kind of project teams composed of the participants according to their personality types. The experiment showed that the third kind of project teams coped with tasks much better than other groups.

Document Sections

- I. Introduction
- II. The Aim and Objectives of the Study

More Like This

Reassessing team leadership in technology-intensive project environments
International Technology Management Conference
Published: 2012

Activate Windows
Go to Settings to activate Windows.
Feedback

Citation Map

1. M. Borrego, J. Karlin, L. D. McNair and K. Beddoes, "Team effectiveness theory from industrial and organizational psychology applied to engineering student project teams: A research review", *Journal of Engineering Education*, vol. 102, no. 4, pp. 472-512, 2013.
[Show Context CrossRef](#) [Google Scholar](#)
2. O. Kolesnikov, V. Gogunskii, K. Kolesnikova, D. Lukianov and T. Olekh, "Development of the model of interaction among the project team of project and project environment in project system", *EasternEuropean Journal of Enterprise Technologies*, vol. 5, no. 9, pp. 20-26, 2016.
[Show Context CrossRef](#) [Google Scholar](#)
3. V. Vanovskiy, "International Physicists' Tournament - the team competition in physics for university students", *European Journal of Physics*, vol. 35, no. 6, pp. 064003, 2014.
[Show Context CrossRef](#) [Google Scholar](#)
4. N. Meslec and P. L. Curşeu, "Are balanced groups better? Belbin roles in collaborative learning groups", *Learning and Individual Differences*, vol. 39, pp. 81-88, 2015.
[Show Context CrossRef](#) [Google Scholar](#)
5. B. S. Kuipers, M. Higgs, W. Kickert, L. Tummers, J. Grandia and J. Van der Voet, "The management of change in public organizations: A literature review", *Public administration*, vol. 92, no. 1, pp. 1-20, 2014.
[Show Context CrossRef](#) [Google Scholar](#)
6. C. Margerison and D. McCann, "Five skills to improve performance", *Team Performance Management: An International Journal*, 1996.
[Show Context CrossRef](#) [Google Scholar](#)

S. Ivanova, L. Dimitrov, V. Ivanov and G. Naleva, "An Experiment on the Joint use of the Heuristic and Project Methods at the University," *2019 II International Conference on High Technology for Sustainable Development (HiTech)*, Sofia, Bulgaria, 2019, pp. 1-5, doi: 10.1109/HiTech48507.2019.9128248.

7. E. U. Okike and O. A. Amoo, "Problem Solving and Decision Making: Consideration of Individual Differences in Computer Programming Skills Using Myers Briggs Type Indicator (MBTI) and Chidamber and Kemerer Java Metrics (CKJM)", *Journal of Applied Information Science and Technology*, vol. 7, no. 1, pp. 27-34, 2014.

[Show Context](#) [Google Scholar](#)

8. M. Ogot and G. E. Okudan, "Systematic creativity methods in engineering education: a learning styles perspective", *International Journal of Engineering Education*, vol. 22, no. 3, pp. 566, 2007.

[Show Context](#) [Google Scholar](#)

9. K. Garrety and K. Beyond, "ISTJ: A discourse-analytic study of the use of the Myers-Briggs Type Indicator as an organisational change device in an Australian industrial firm", *Asia Pacific Journal of Human Resources*, vol. 45, no. 2, pp. 218-234, 2007.

[Show Context](#) [CrossRef](#) [Google Scholar](#)

10. C. A. Gorse and A. M. Sanderson, "Exploring group work dynamics", *Proceedings of the 23rd Annual ARCOM Conference*, pp. 295-296, 2007, September.

[Show Context](#) [Google Scholar](#)

11. V. Gražulis, "Teamwork - the assumptions of the theoretical construct adaptation in organization activity (Lithuanian case)", *Human Resources Management & Ergonomics*, vol. 6, no. 2, 2012.

[Show Context](#) [Google Scholar](#)

12. N. D. Marlow and E. K. Marlow, "Bigger is not Always Better: Group Size and the Marketing Research Client-Sponsored Project", *Proceedings of the 1988 Academy of Marketing Science (AMS) Annual Conference*, pp. 203-207, 2015.

[Show Context](#) [CrossRef](#) [Google Scholar](#)

13. D. Smith, "Crisis management teams: issues in the management of operational crises", *Risk Management*, vol. 2, no. 3, pp. 61-78, 2000.

[CrossRef](#) [Google Scholar](#)

14. V. Ivanov, G. Urum, S. Ivanova and G. Naleva, "Analysis of matrix and graph models of transmissions for optimization their design", *Eastern-European Journal of Enterprise Technologies*, vol. 4.1, no. 88, pp. 11-17, 2017.

[Show Context](#) [CrossRef](#) [Google Scholar](#)

15. V. Ivanov, *Models and heuristic methods for managing reverse engineering projects*, 2016.

[Show Context](#) [Google Scholar](#)

16. T. G. Roberts and J. F. Harlin, "The Project Method in Agricultural Education: Then and Now", *Journal of Agricultural Education*, vol. 48, no. 3, pp. 46-56, 2007.

[Show Context](#) [CrossRef](#) [Google Scholar](#)