

Through PBL, Applied mathematics Can Improve Employability Skills

Branko Dragovich*

Department of Physics, University of Belgrade, Belgrade, Serbia

Abstract

Project-Based Learning (PBL) is a teaching method that involves students in a process of learning through hands-on, real-world experiences. PBL encourages students to engage in self-directed learning, collaborate with others, and apply their knowledge to solve complex problems. Applied mathematics, which is the use of mathematical concepts and methods to solve practical problems in various fields, can be an excellent subject for PBL. Problem-solving: PBL with applied mathematics provides students with the opportunity to solve real-world problems using mathematical concepts and methods. This enhances their problem-solving skills and makes them more attractive to employers. Applied mathematics is the use of mathematical concepts and methods to solve practical problems in various fields, including engineering, physics, computer science, finance, and many others. In today's job market, employers are looking for employees with strong problem-solving skills, creativity, communication skills, and the ability to work in teams. Project-Based Learning (PBL) is a teaching method that involves students in a process of learning through hands-on, real-world experiences. By engaging in PBL with applied mathematics, students can enhance their employability skills and become more attractive to potential employers.

Keywords: Communication skills • Potential employers • Management skills

Introduction

PBL with applied mathematics provides students with the opportunity to solve real-world problems using mathematical concepts and methods. This enhances their problem-solving skills, which is a highly valued skill in the job market. When students are involved in solving real-world problems, they are forced to think critically and apply their knowledge to find solutions. This is different from traditional teaching methods, where students only memorize formulas and solve mathematical problems that are not necessarily related to real-world applications. PBL with applied mathematics, therefore, helps students to develop skills that are highly relevant to the job market. Collaboration is an essential skill that employers look for in their employees. PBL encourages collaboration among students, and this helps students to develop teamwork skills. By working in groups, students learn to communicate effectively, share ideas, and work towards a common goal. This is an essential skill that is highly valued by employers, and students who have developed this skill through PBL are more likely to succeed in the job market.

Literature Review

PBL requires students to manage their time effectively to complete projects within the deadline. This is an important skill that employers value in their employees. In the workplace, there are often multiple tasks that need to be completed within a given timeframe. Employers, therefore, look for employees who can manage their time effectively and complete tasks within the deadline. PBL with applied mathematics, therefore, provides students with the

opportunity to develop time management skills that are highly relevant to the workplace. Creativity is another skill that employers value in their employees. PBL encourages students to think creatively and come up with innovative solutions to problems. When students are given real-world problems to solve, they are forced to think outside the box and come up with solutions that are not necessarily obvious. This is a valuable skill in the workplace, where employers are constantly looking for innovative solutions to problems [1,2].

Discussion

Students who have developed this skill through PBL are, therefore, more likely to be successful in the job market. Communication is an essential skill that employers value greatly in their employees. PBL involves presenting ideas and solutions to an audience. This enhances students' communication skills and makes them more effective communicators. In the workplace, effective communication is essential, as it ensures that everyone is on the same page and working towards a common goal. Students who have developed this skill through PBL are, therefore, more likely to be successful in the job market with applied mathematics provides students with the opportunity to solve real-world problems using mathematical concepts and methods. This enhances their problem-solving skills and makes them more attractive to employers. Encourages collaboration among students, and this is an essential skill that employers look for. By working in groups, students learn to communicate effectively, share ideas, and work towards a common goal requires students to manage their time effectively to complete projects within the deadline. This is an important skill that employers value in their employees. encourages students to think creatively and come up with innovative solutions to problems. This skill is highly valued by employers who seek employees that can think outside the box. PBL involves presenting ideas and solutions to an audience. This enhances students' communication skills and makes them more effective communicators, a skill that employers value greatly [3-6].

Conclusion

In conclusion, PBL with applied mathematics is an excellent way to enhance employability skills. It provides students with the opportunity to develop problem-solving skills, collaboration skills, time management skills, creativity, and communication skills. These skills are highly valued by employers and

*Address for Correspondence: Branko Dragovich, Department of Physics, University of Belgrade, Belgrade, Serbia, E-mail: dragovich9@ipb.ac.rs

Copyright: © 2023 Dragovich B. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Received: 02 January 2023, Manuscript No. jacm-23-93351; **Editor assigned:** 05 January 2023, PreQC No. P-93351; **Reviewed:** 16 January 2023, QC No. Q-93351; **Revised:** 21 January 2023, Manuscript No. R-93351; **Published:** 28 January 2023, DOI: 10.37421/2168-9679.2023.12.511

can increase students' chances of success in the job market. When students are engaged in PBL with applied mathematics, they are more likely to develop these skills, as they are solving real-world problems and are forced to think critically and creatively. PBL with applied mathematics, therefore, provides students with an excellent opportunity to develop employability skills that are highly relevant to the job market.

Acknowledgement

None.

Conflict of Interest

None.

References

1. Hazarika, G. C and Lurinjyoti Gogoi. "Effects of variable viscosity and thermal conductivity on mhd free convective heat and mass transfer flow past an inclined surface with heat generation." *Int J Comput Appl* 167 (2017).
2. Munir, M. S and R. S. R. Gorla. "Combined convection from a vertical flat plate with temperature dependent viscosity and thermal conductivity." *Int J Fluid Mech Res* 29 (2002).
3. Akindele, M., Okedoye M., Kelvin O. Ogboru and John Damisa, et al. "Two-dimensional dissipative non-slip mhd flow of arrhenius chemical reaction with variable properties."
4. Nandy, Samir Kumar. "Analytical solution of MHD stagnation-point flow and heat transfer of casson fluid over a stretching sheet with partial slip." *Int Sch Res Notices* (2013).
5. Prakash, D., N. Elango and I. Sadham Hussain. "Effect of heat generation on MHD free convective flow of viscous fluid in a vertical channel in the presence of variable properties." In *AIP Conf Proc* 2277 (2020) : 030016
6. Brady, Shannon T., Bridgette Martin Hard and James J. Gross. "Reappraising test anxiety increases academic performance of first-year college students." *J Educ Psychol* 110 (2018): 395.

How to cite this article: Dragovich, Branko. "Through PBL, Applied mathematics Can Improve Employability Skills." *J Appl Computat Math* 12 (2023): 511.