

Educational Experience and the Investigation Results: Creation of New Healthy Products

Authors : G. Espinosa Garza, I. Loera, N. Antonyan

Abstract : In the last decades, teaching in particular engineering subjects is going through a significative problem. A quick evaluation of the entrepreneurial surroundings makes it more difficult for students to identify the course contents with real situations related with their future professions. Proposing teaching through challenges or problem-based projects, and real-life situations is turning into an important challenge for any university-level educator. The objective of this work is to present the educational experience and the investigation results taken through the Project Viability course, done by a group of professors and students from the Technologic of Monterrey. Currently, in Mexico, the orange peels are considered a dispose and they are not being utilized as an alternative to create subproducts. However, there is a great opportunity in its use as a raw material with the goal to originate the waste from the local citric firms or business. The project challenge consisted in the development of edible products from the orange peel with the intention to generate new healthy products. With this project, apart from the obtainment of the original results, the accomplishment consisted in creating a learning atmosphere, where students together with the professors were able to plan, evaluate, and implement the project related with the creative, innovative, and sustainable processes with the goal to apply it in the development of local solutions. In the present article, the pedagogic methodologies that allowed to carry out this project will be discussed.

Keywords : engineering subjects, learning project, orange peel, sustainable process

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