

1 Preface

Students are in the final theoretical semester; they will later prepare themselves for the final graduation project and eventually their entrance in the engineering market. Each student has or should have an expectation of what they want to be in their career. Some students want to work in production plants while others want to take more effort in R&D jobs. Again, others want to work in an entrepreneurial or intrapreneurial way. In whatever way, companies desire for their employees to work more towards real lucrative innovations. This project gives student the opportunity to develop their capabilities and competences into the complex world of innovation development.

2 Aim / objectives

Students will experience what it means to find a new invention. This is often hard to find. They also write a business plan in which the profitability can be seen. The aim of this project is to give students experiences on developing innovations. They, therefore, are better prepared to be able to take an active role in innovation developments in companies they are going to work for in the future.

3 Additional Information

This project is relatively complex because students need to find an interesting invention and proof the marketability in a written business plan. Students also work with students from another University of Applied Sciences. Organizing your project is of outmost importance to be successful. Therefore, the I²E² organization give students in projects a first set up of a project management scheme as shown below to give the teams a quick start to manage their own project well.

This year, some videos of supporting content and advising guidelines are available. Your teacher from your project will provide you these videos, when available. Or we point one person of the group to be the contact person for the available Dropbox, where she/he can download the videos and some tools which she/he can hand over to his fellow team members of her/his project. Some information about the video workshops is given in chapter 5.

Work packages	Description of activities	Aug	Sep. Wk 35-39	Oct. Wk 39-43	Nov. Wk 44-48	Dec Wk 48-52	Jan. Wk 1-5
Start-up activities	Introduction of team members						
	Setting up interdisciplinary collaboration.						
	Search cultural difference of partner Universities.						
	Discuss communication procedures						
	Fontys: Get in contact to Business students						
	Ending Milestone 1 (Week 37)		1				
Creative Process	Search for interesting ideas. Using TRIZ creativity methods						
	Analysis of customer's needs, defining a possible market.						

- Students need to know what the given time from each University OAS is, with which one understands what the **timely contribution (credits) of each student member can be seen. (also provided by project management tool)**. If there are **differences in credits for students**, this must be well communicated to each other to prevent unwanted misunderstandings.
- Students **organize trips** to each other countries. There are two options of traveling. One in the beginning of the project, to ensure team building and one at the end of the project (January) to take part at the I²E²-Symposium. Ask your teacher what the possibilities are to support traveling costs for each student. Of course, all must be in line with the COVID 19 measures to be taken, as it is directed from your country.
- **Tasks to be done in the project must be evenly** (according to given credits) divided among students at each University OAS. (This is also supported in the project management tool.)
- Students work according to the **general timetable with the given milestones**. Milestones are seen as deadlines for delivering products.
- Students ensure each **teacher/coach is adequately informed** about project proceedings.
- Students support and **prepare for an international Symposium** on Innovation Engineering topics of their projects. They present their paper at the international Innovation Engineering and Entrepreneurship I²E² Symposium.