
Biomaterials Assignment 2019

Your Assignment (*should you choose to accept it*), is to set up a small yet cutting edge production site for trabecula cups (for both, Ti-cage and acetabular Liner). You will have to:

- choose state of the art materials (bio-compatible, patient specific, functional, bio-mimetic etc.)
- indicate production requirements e.g. 3D printed (for all material)
- adhere to regulatory production standards (CE-certified and FDA-cleared implants) and
- specify infrastructure requirements (including a basic floor plan)

Based on a production capacity of 25 cups/day, you are also asked to proceed with pricing of your company's product (considering a 2-year ROI)! Clearly sub-categorize each cost associated with pricing (personnel, depreciation costs, raw materials, subcontracting etc.).

On the first page of your assignment, you have to mention:

- total investment (k€)
- material choices and production method thereof
- infrastructure requirements (e.g. m², clean room conditions if any, potential safety levels etc.)

Clarifications

This is a group assignment and the teams are as follows:

- **Team A:** Ms. E. Vagopoulou, Ms. E. Baksiova, Ms. M. Karanikou, Ms. Z. Panou and Mr. K. Papadakis
- **Team B:** Ms. A. Diafa, Ms. G. Christofidou, Mr. L. Papadakis, Mr. A. Konstantinidis and Mr. G. Athanasiadis,

Contributions of each team member have to be clearly stated in the final report.

The assignment:

- *will be presented on Sunday June 30th at 13:00 pm. Each team member must participate in the presentation and be able to respond to questions covering the entire spectrum of the assignment. Each team member will be graded separately!*
- *will be written and presented in English language and accompanied by a max. of 10 slides.*
- *Must be submitted by e-mail to biomed@teiwu.gr (until Friday June the 28th) and presented in hardcopy during its defense.*