

Project in the “3D Cad” course

Description

The aim of the project is to design a parametric 3D geometric model of a real-life item of your choice. The geometry of the construction is according to the real part and what is available in the market, so a thorough market survey must be implemented.

Students must develop the three-dimensional parametric geometric model of each part of the construction in a Computer Aided Design (CAD) software tool. Then, they must develop the parametric three-dimensional assembly of the construction, with the 3d geometric models developed for each part.

Tools

CAD software tools, i.e., Creo, Catia, Solidworks, etc.

Office and internet software tools

Work process

Students work on their computers and questions are answered through email. Also, meetings in person with the supervising professor can be arranged, if necessary.

Five hundred words plus pictures, figures, etc. report of the work progress must be sent to the supervising professor through email on Friday every two weeks. First report is due to **12/11/2021**, describing what has been done on the project during the two weeks period (what have you searched, your working process, what you have achieved, what you didn't manage to achieve and why, etc.). Each report should be in MS word file format, about 500 words, with appropriate photos, figures, diagrams, screenshots from the CAD software, etc., showing the progress of the project. Reports should be written in passive voice/third person; figures should be numbered, captioned, and referenced in the text.

Deliverables

Apart from the reports every two weeks, the deliverables at the end of the project are:

1. CAD files.
2. One final report in MS Word and pdf format file, about **5000 words** along with pictures from the design process in the CAD software, in which the whole project should be described. In this report apart from the work process description and methodology, the whole list of parts should be included in a table.
3. (Optional) One presentation in MS Powerpoint format file, in which the whole project should be presented.

Contact information

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