

WROCLAW UNIVERSITY OF SCIENCE AND TECHNOLOGY

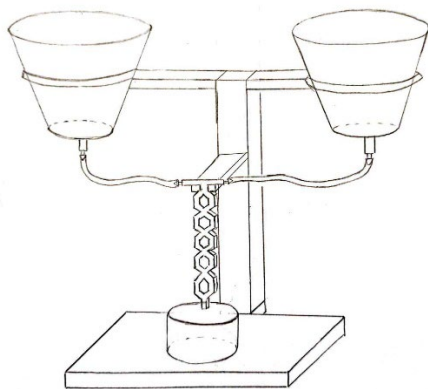
FACULTY OF ELECTRONICS, PHOTONICS AND MICROSYSTEMS

3D printing task

Topic: „Design and Manufacturing of Microfluidics “

Goal:

The goal of the project is to design and manufacture microfluidic structures which can be used in conducting different biological processes or chemical reactions. Microfluidic channels in the form of valves, mixers, separators, and dispensers will be made using various 3D printing technologies (FDM, DLP). Printed elements will be tested to verify correct operation.



The following sub tasks will be due:

- Defining the functionality and physical requirements (geometry)
- Creating a 3D model using CAD software (Autodesk Inventor)
- Selecting appropriate 3D printing methods and materials
- Print the main model
- Verify working property

Responsible

Professor: Dr hab. eng. Sergiusz Patela prof. PWr

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