

# Product Design & Development for Student Teams Twente

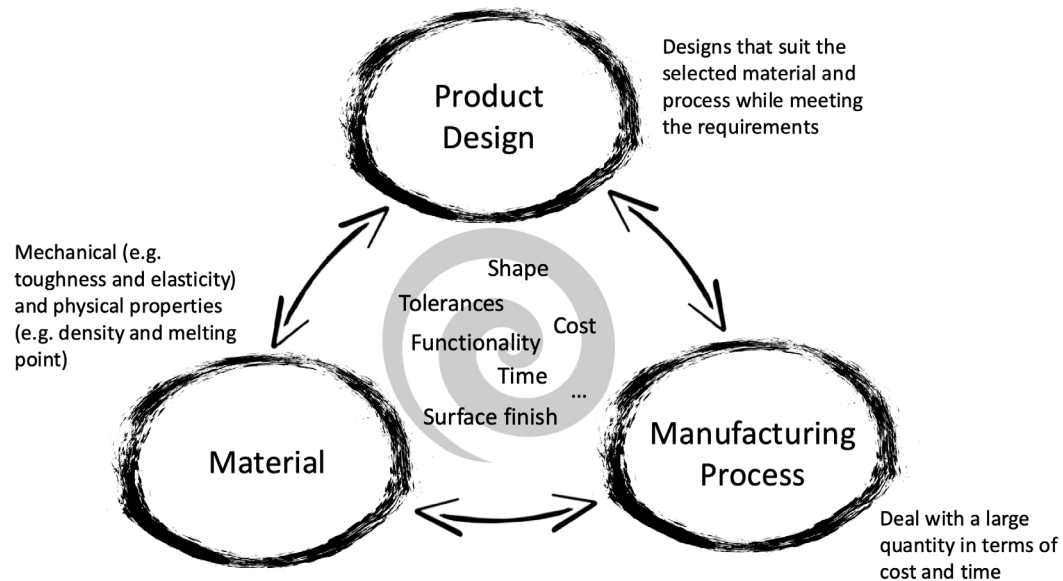
Athena Jalalian (Coordinator, [a.jalalian@utwente.nl](mailto:a.jalalian@utwente.nl))  
Constantinos Goulas (Lecturer)  
Soheil Arastehfar (Lecturer)



PD&D Minor

# What is it about?

To support Student Teams Twente in the design & development of their products



DroneTeam  
Twente

RISE



SOLAR BOAT  
TWENTE



RoboTeam  
Twente

DesignLab

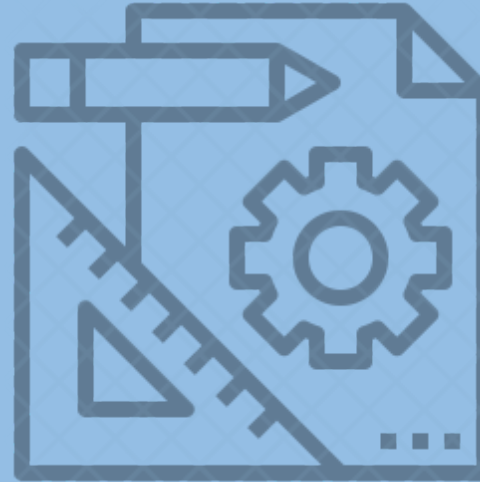
FRAUNHOFER INNOVATION PLATFORM  
FOR ADVANCED MANUFACTURING

# Minor Setups: 15EC / 30EC



## Core Educational Activities 5 EC

Design Methodology (2.5 EC)  
Materials & Manufacturing Processes (2.5 EC)



## Personal Pursuit Project 10 or 25 EC

Depending on the students' preferences, level of projects, and study programs



# Minor Timeline

## Minor

- Starting date: 1A or 1B
- End date: anytime from the end of 1B to the end of academic year

## Lectures

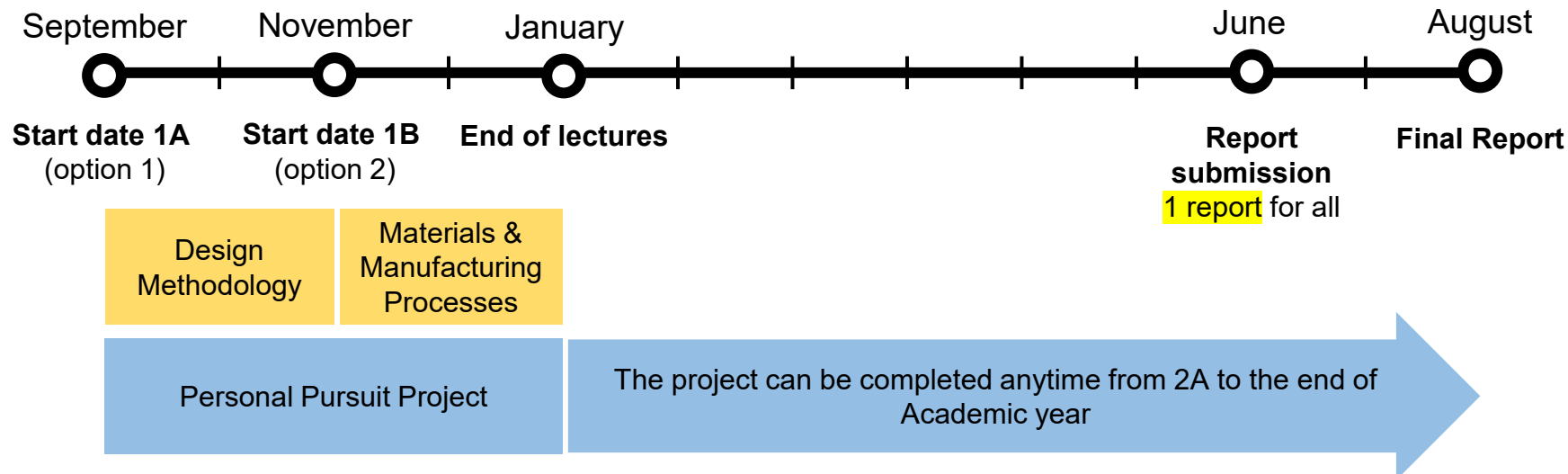
- Lectures spread over 1A and 1B
- Students starting in 1B: supervised self-study for Design Methodology

## Project

- Starts in 1A and can finish anytime from the end of 1B onwards

## Assessment

- Individual assignments and assessments
- 1 Report for the course assignments and project



# Minor Enrollment

- To enroll, send an email to the coordinator at [a.Jalalian@utwente.nl](mailto:a.Jalalian@utwente.nl)
- No enrollment deadline!
- You have **3** options:
  1. Student Team members working on their tasks in their teams
  2. Non-team members taking a project defined by Student Teams
  3. Non-team members interested in projects in line with biomedical device design and development and prototyping or a project with Fraunhofer Innovation Platform



# Minor: Who We Are?

## Athena Jalalian, PhD

Minor coordinator, Lecturer and Advisor

Biomechanics, Biomedical Device Design, Implant Design, Computational Models, Surgical Prediction Models

## Constantinos Goulas, PhD

Lecturer and Advisor

*Large-scale 3D Metal Printing, Multi Material 3D Printing, Phase Transformations in Metals, Microstructure Characterization, Mechanical Properties, 3D Printing of Biomaterials*

## Soheil Arastehfar, PhD

Lecturer and Advisor

*Bioinspired Design, Biomimetics, Marine Robotics, Robotics and Automation, Automatic Inspection, Inspection Robots*

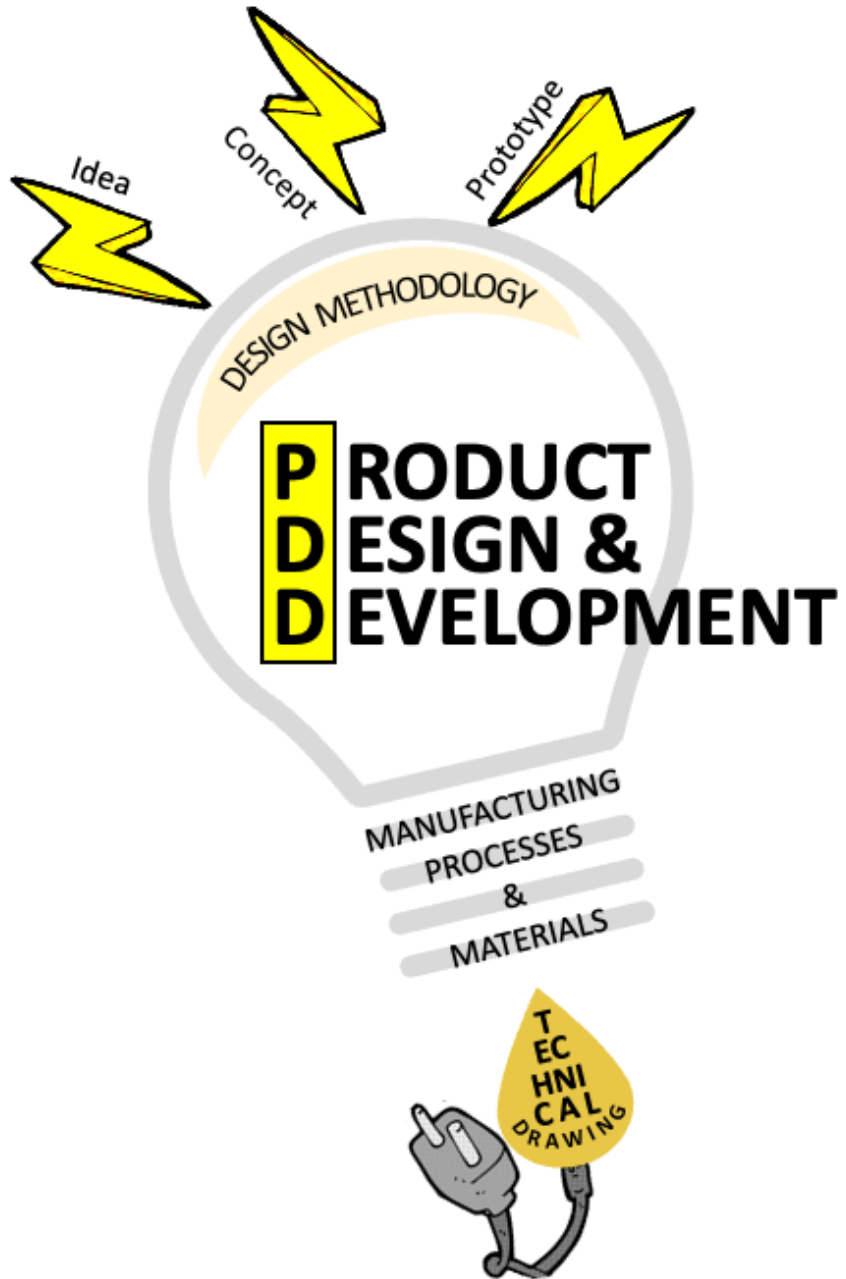


# Minor PD&D

- Flexible start/end date
- Number of ECs
- Enrollment Pathways
- No enrollment deadline
- Work with Student Teams Twente
- Access to DesignLab facilities
- Work with / access to Fraunhofer Innovation Platform

A minor with lots of flexibility, options, opportunities





# Any Questions ?

Please approach me at PD&D  
minor table at the fair, or contact  
me at [a.jalalian@utwente.nl](mailto:a.jalalian@utwente.nl)