

**COURSE TITLE:****MODELLING AND VISUALIZATION**

Institute / Division;

Institute of Applied Computer Science

Number of course hours:

60

Course duration:

1 semester

ECTS credits

4

Course description:

Essentials of solid 3D modelling. Methodology of creating 3D models of parts. Using of sketcher. Steps in design process of 3D solid model. Examples of part models. Creating assemblies. Modelling of helical cut-outs and extrudes. Practice of solid modelling in Autodesk Inventor, Solid Works and Pro/Engineer systems. Visualization of part and assembly models: setting material properties, texturing.

Literature:

E. Lisowski, Modelling geometry of elements, assemblies and kinematics of machines in program Pro/Engineer Wildfire, Bergen 2005

Course type:

lectures + laboratories + projects

Assessment method:

Attendance, passing laboratories and final project

Primary target group:

2<sup>nd</sup> year students of computer science

Lecturer:

prof. Edward Lisowski, PhD, DSc

Contact person:

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Deadline for application:

May 31