

**COURSE TITLE:****CAD 3D SYSTEMS**

Institute / Division;

Institute of Applied Computer Science

Number of course hours:

60

Course duration:

1 semester

ECTS credits

5

Course description:

Introduction to CAD 3D systems. Essentials of solid 3D modelling. Methodology of creating 3D models of parts. Basic operations: extrusion, cut, chamfer, fillet, shell etc. Using of sketcher. Steps in design process of 3D solid model. Examples of part models. Creating assemblies. Modelling of advanced geometry, as cams, gears, helical cut-outs and extrudes. Practice of solid modelling in Solid Edge, Autodesk Inventor and Solid Works systems.

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, final project

Primary target group:

1<sup>st</sup> year students of MSc course in "Computer Aided Design in Mechanical Engineering"

Lecturer:

prof. Edward Lisowski, PhD, DSc

Contact person:

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Deadline for application:

May 31