COURSES FOR EXCHANGE STUDENTS

1. **Course title**

ENGINEERING GRAPHICS

2. **Course code**	3. **Teaching methods** Lectures, exercises Traditional form of lectures is supported by video presentations of the most essentials and crucial steps to understand: drawing methods. The main parts of the course are prepared in electronics form and are delivered to the students systematically during the course.
4. **Type of course:** Optional	5. **Year of study** - I/ 1
6. **Number of credits:** 6	7. **Level of course:** basic
8. **Numbers of hours per week: 2**	**9. Number of hours**: Conversation/Seminar/Excersises 30h

10. **Language of instruction** English

11. **Name of lecturer:** dr hab. inż. Marek Macko – prof. uczelni

12. **Prerequisites** skills in use of basic geometrical rules in practice

13. **Goal of the course** Introduction into basic rules and principles of design notation and fundamental issues connected with machine construction. Learning and improvement of design notation technique of machine and introduction into CAD

14. **Course contents**

The course is focused in two parts clearly identified: DESCRIPTIVE GEOMETRY AND TECHNICAL DRAWING as well as FUNDAMENTALS OF ENGINNERING DESIGN GRAPHICS
Sketching, Multiview and Pictorial drawings, Axonometric and oblique drawings
DESCRIPTIVE GEOMETRY
Auxiliary views, fundamentals of descriptive geometry, Intersections and Developments
STANDARD ENGINEERING DESIGN PRACTICES
Sections views, Dimensioning Practices, working drawings
For exchange students: teaching support, materials, seminar papers and exams in English.
SolidWorks – introduction, part and assembling modelling - CSWA

15. **Assessment methods**

Practical and theory test

16.**Recommended reading**

1. Earle, James H. Engineering design graphics. Wyd. 6th ed. Addison-Wesley, 1990.
2. Giesecke, Frederick Ernest. Engineering graphics. 8th ed. Upper Saddle River: Prentice-Hall, 2004.
3. Croft, Frank M. Engineering graphics, New York : John Wiley, 1989.
4. Herbert W. Yankee. Engineering graphics. Boston, Mass. : PWS Engineering, 1985.
5. David C. Planchard. Engineering graphics with SOLIDWORKS 2017 and video instruction : a step-by-step project based approach utilizing 3D solid modeling / Mission : SDC Publications, cop. 2017.
6. James D. Bethune. Engineering design and graphics with SolidWorks. Boston : Prentice Hall, 2010.