

## Computer Aided Design (1st YEAR OF STUDY, 1st SEMESTER)

**Credit value (ECTS): 8**

**Course category:**

Domain discipline (required)

**Course holder:**

**Andrei Slonovschi PhD, Lecturer**

### **Discipline objectives (course and practical works)**

Learning the computer aided drawing and editing commands needed to perform 2D drawings under the AutoCAD program interface. Forming students' ability to use the computer. Applying the information received in solving the individual themes related to the computer aided representation of the drawings.

### **Contents of the discipline (analytical program)**

<b>Course (chapters/subchapters)</b>
<b>CHAPTER 1. Basic concepts.</b> Definition and subject of the course: AutoCAD, general presentation.
<b>CHAPTER 2. AutoCAD graphic display.</b> Creating a new drawing in AutoCAD. Utility controls. Create new drawing window. Presentation of the length of a unit. AutoCAD graphic display. Using AutoCAD commands. UNITS, NEW, OPEN, SAVE, SAVE As, EXIT, CLOSE.
<b>CHAPTER 3. Drawing commands.</b> The LINE, MLINE, POINT, CIRCLE, ARC, PLINE, ELLIPSE, SOLID, POLYGON, PLINE, DIVIDE, MEASURE, SPLINE commands
<b>CHAPTER 4 Editing commands.</b> The ERASE, MOVE, COPY, SCALE, ROTATE, MIRROR, STRETCH, BREAK, TRIM, PEDIT, EXTEND, OFFSET, FILLET, ARRAY, CHAMFER, EXPLODE, LENGTHEN commands
<b>CHAPTERS 5. Dimension order.</b> Dimension order: Dimensional style
<b>CHAPTERS 6. Hatching.</b> Objects hatching. Drawing and editing commands.
<b>CHAPTERS 7. Information orders.</b> The ID, AREA, DIST, LIST commands

<b>Practical works</b>
AutoCAD graphics screen applications and utility commands.
Graphic Aid applications.
Applications regarding 2D object drawing commands.
Applications regarding 2D object editing commands.
Applications regarding 2D object dimension commands.
Applications regarding 2D object hatching commands.
Applications regarding information orders.

### **Bibliography**

1. Prună, L., Slonovschi A. – Infografică, Editura PIM, Iași, 2014;
2. Slonovschi, A., Prună, L. – Infografică. Noțiuni introductive, Editura PIM, Iași, 2014;

3. Slonovschi, A., Prună, L. – Infografică. Comenzi de desenare, Editura PIM, Iași, 2014;
4. Slonovschi, A., Prună, L. – Infografică. Comenzi ce permit selectarea și editarea obiectelor. Editura PIM, Iași, 2019;
5. Slonovschi A., ș.a. – Infografică. Îndrumar de laborator, Ed. PIM, Iași, 2007;
6. Marinescu Gh.- Aplicații AutoCAD în construcții, Ed. CONTEGEDO, Buc., 2002;
7. Segal L., Ciobănașu G - Grafică inginerescă cu AutoCAD, Ed. Tehnopress, 2003;
8. Anghel A, Prună L. – Desen tehnic cu AutoCAD, Ed. Tehnopress, Iasi, 2005.
9. STAS-urile și normativele în vigoare;
10. \*\*\* – AutoCAD.

## Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Course	Colloquium	50%
Practical works	Practical demonstration	50%

## Contact

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