

Desen tehnic

Obiectiv principal

Desenul tehnic reprezinta disciplina de cultura tehnica generala care se ocupa de transpunerea grafica plana a unei conceptii sau a unei idei tehnice dupa anumite norme si reguli stabilite, in scopul reprezentarii si determinarii unor obiecte.

Complexitatea informatiilor furnizate asigura desenului tehnic un rol determinant in viata unui produs si prin faptul ca reprezinta forma cea mai concisa si mai sintetica de comunicare in domeniul tehnic. Acest fapt asigura importanta cunoasterii normelor, a elementelor conventionale utilizate in reprezentarea plana a corpurilor geometrice spatiale si gradul ridicat de universalitate a acestor norme si reguli.

Technical Drawing

Course Objective

The technical drawing is the discipline of the general technical culture that deals with the plane graphic transposition of a conceptual or technical idea according to certain established rules and rules for the purpose of representing and determining objects.

The complexity of the information provided ensures that the technical design plays a decisive role in the life of a product and in that it represents the most concise and synthetic form of communication in the technical field. This fact ensures the importance of knowing the norms, of the conventional elements used in the plane representation of spatial geometric bodies and the high degree of universality of these norms and rules.

Curs

2 ore/săptămână, total 28 ore

- Generalitati. Standarde. Formate. Linii.
- Reguli generale de reprezentare in desenul tehnic. Vederi. Sectiuni.
- Cotarea in desenul tehnic.
- Reprezentarea, cotarea si notarea filetelor.
- Notarea materialelor.
- Notarea starii suprafetelor
- Desenul de ansamblu
- Reprezentarea si cotarea rotilor dintate si a angrenajelor.
- Desen schematic.

Course

2 hours weekly, 28 hours total

- Overview • Standards. Formats. Lines.
- General rules of representation in the technical drawing. Views. Sections.
- Quotation in the technical drawing.
- Representing, quoting and marking the threads.
- Classification of materials.
- Statement of surface conditions
- Overall drawing
- Representation and quantification of gears and gears.
- Schematic drawing.

Laborator

2 ore/săptămână, total 28 ore

- Scrierea standardizata. Tipuri de linii utilizate in desenul tehnic.
- Dispozitia proiectiilor
- Reguli pentru intocmirea schitei. Piesa simpla.
- Constructie prisma hexagonal. Cap surub si piulita.
- Piesa simpla cotata. TEST 1.
- Piesa complexa cotata.
- Piesa filetata 1.
- Piesa filetata 2. TEST 2.
- Asamblare de doua piese. Desene piese componente.
- Desen asamblare.
- Desen de ansamblu explodat. TEST 3
- Desen de ansamblu 2.
- Desen asamblare. TEST 4.
- Refacere un test si evaluarea finală a activității de laborator.

Laboratory

2 hours weekly, 28 hours total

- Standardized writing. Types of lines used in the technical drawing.
- Layout of projections
- Rules for drafting the sketch. The simple piece.
- Hexagonal prism construction. Screw head and nut.
- Simply rated piece. TEST 1.
- Quoted complex piece.
- Threaded piece 1.
- Threaded piece 2. TEST 2.
- Two-piece assembly. Drawings of parts.
- Assembly drawing.
- Explosive drawing. TEST 3
- Overall drawing 2.
- Assembly drawing. TEST 4.
- Repeat a test and final assessment of laboratory activity.