

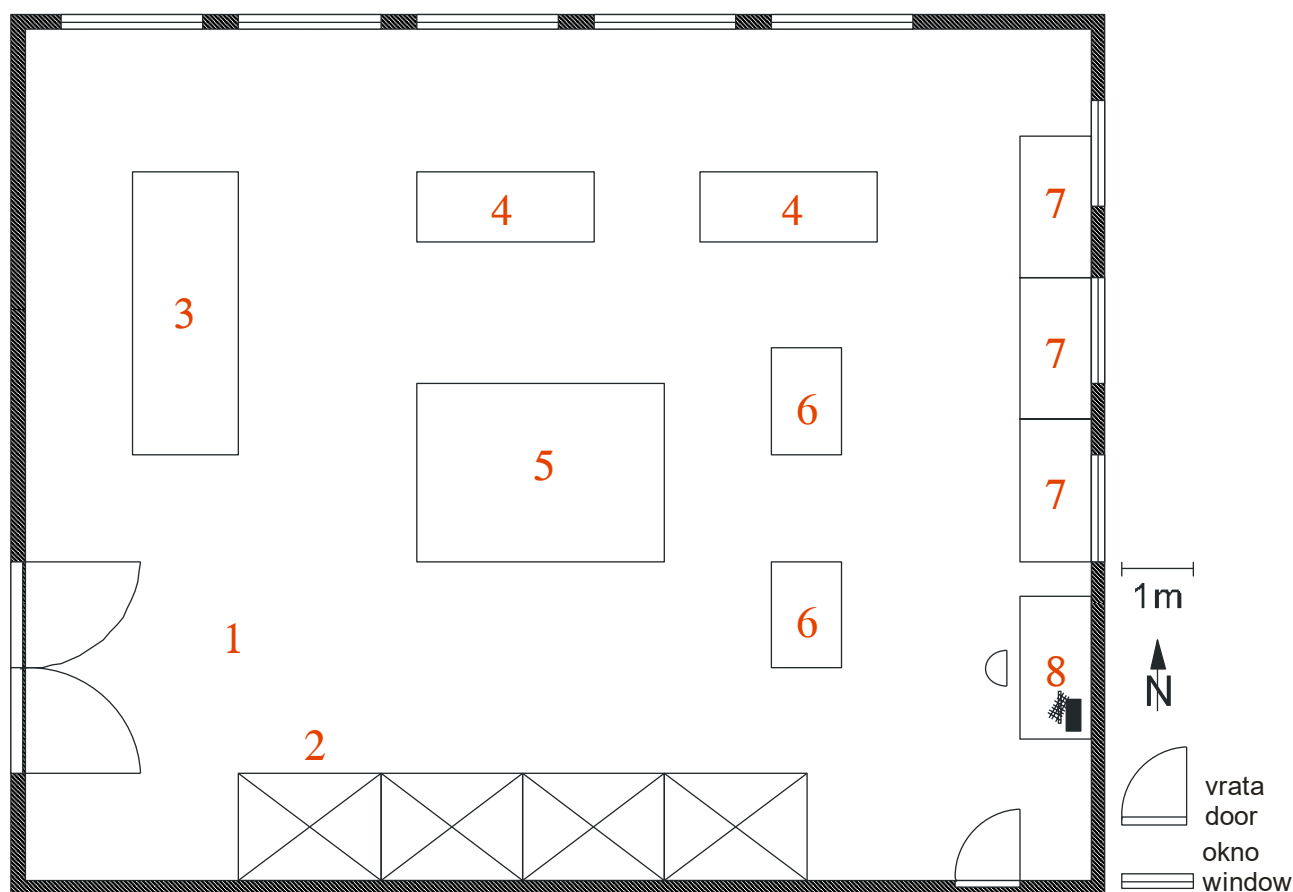
Projektna naloga

za izpit pri predmetu Svetlobna tehnika

Izdelajte projekt razsvetljave ključavničarske delavnice.

Opis prostora:

- velikost prostora: dolžina: 15 m, širina: 12 m, višina: 4 m;
- odsevnosti: strop: 0,5, stene: 0,4, tla: 0,2;
- prostor je namenjen ključavničarskemu delu: rezanje, vrtanje, struženje, varjenje...;
- strop bo izveden klasično – betonska plošča, inštalacije za svetilke v stropu;
- okviren razpored pohištva in druge opreme je viden iz tlorisa;
- če ni drugače navedeno, upoštevajte standardno višino in dimenzije pohištva;



Tloris prostora z okvirno razporeditvijo pohištva in ostale opreme. Oznake pomenijo:

1. del za dovoz materiala;
2. regalno skladišče do stropa;
3. preša, višina 250 cm, višina delovne površine 130 cm;
4. stružnica, višina 180 cm, višina obdelovanja 120 cm;
5. CNC stroj, višina 200 cm, višina obdelovanja 110 cm;
6. vrtalni stroj, višina 170 cm, višina obdelovanja 120 cm;
7. delovne mize, višina 85 cm;
8. pisalna miza z računalnikom, višina 75 cm.

Projekt naj obsega:

- tehnično poročilo
- izpis rezultatov izračunov kot prilogo

Tehnično poročilo mora vsebovati:

- kratek opis prostora;
- navedbo splošnih zahtev za razsvetljavo delovnih mest v prostoru;
- opis delovnih mest z navedbo ustrezne osvetljenosti in ostalih relevantnih parametrov;
- navedbo in utemeljitev izbranega koncepta in vrste razsvetljave;
- navedbo in utemeljitev izbranih svetlobnih virov;
- navedbo in utemeljitev izbranih svetilk;
- prikaz osnovnih podatkov o prostoru in izbranih svetilkah ter virih;
- navedbo in kratek komentar glavnih rezultatov;
- navodila za vzdrževanje razsvetljave;
- navedbo upoštevanih dokumentov.

Priloga tehničnega poročila (izpis iz programa s katerim ste izvedli izračune) mora vsebovati vse relevantne podatke iz katerih je mogoče oceniti ustreznost projekta in njegovo skladnost z zahtevami standarda in drugih regulativnih dokumentov (npr. tehničnih smernic).

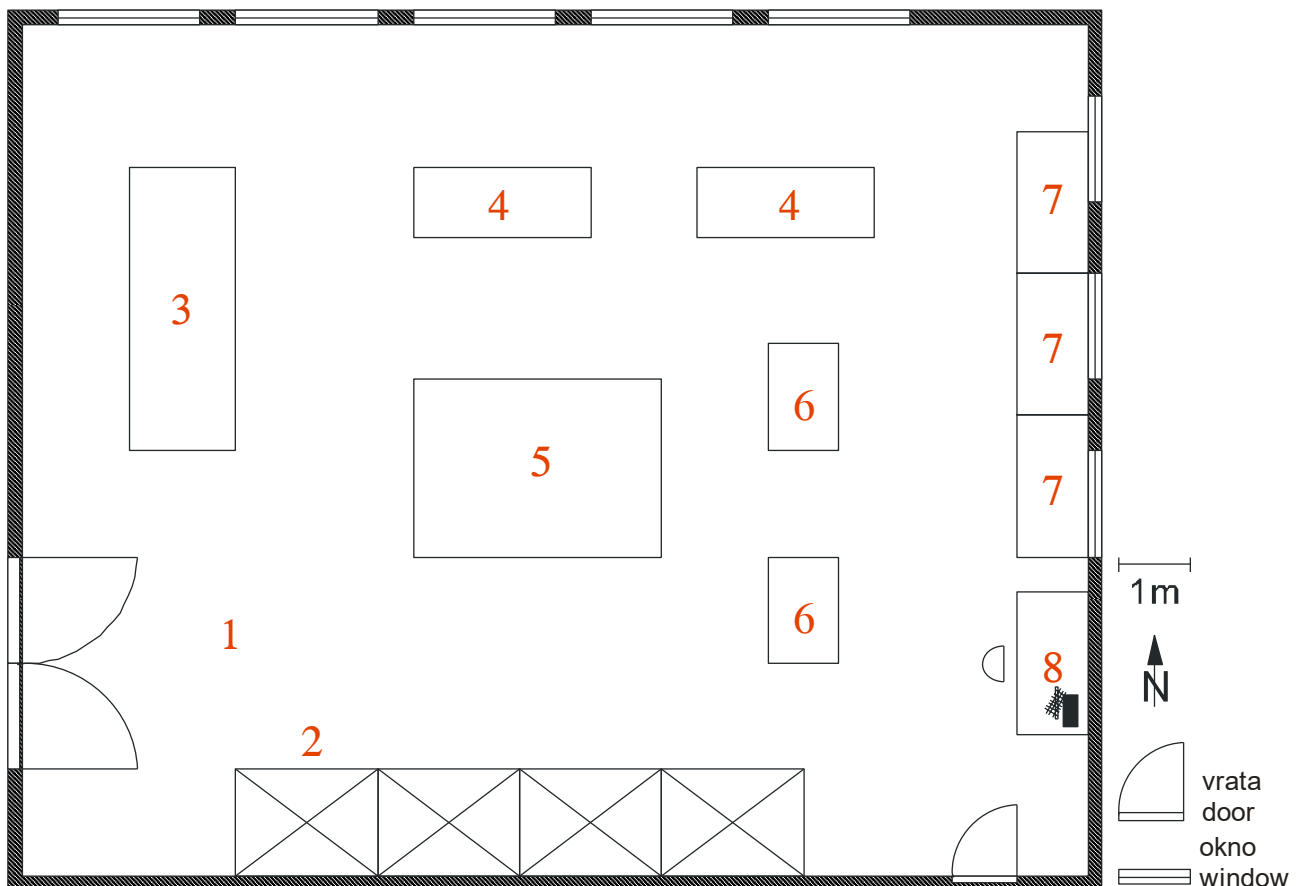
Project task

in the subject Lighting Engineering

Design lighting of locksmith's workshop.

Description of the room:

- Size of the room: length: 15 m, width: 12 m, height: 4 m.
- Reflections of surfaces: ceiling: 0.5, wall: 0.4, floor: 0.2.
- Workshop is designed for locksmith work: cutting, drilling, turning, welding
- Ceiling will be made as a concrete slab, el. installation will be in ceiling.
- The basic design and arrangement of furniture and other equipment is visible on the ground plan below;
- If not stated otherwise, consider the standard height and dimensions of the furniture;



Ground plan of a room with basic arrangement of furniture and other equipment. Noted with numbers are:

1. place for the delivery of material;
2. shelf warehouse up to the ceiling;
3. press, height 250 cm, working area height 130 cm;
4. lathe, height 180 cm, working area height 120 cm;
5. CNC machine, height 200 cm, machining height 110 cm;

6. drilling machine, height 170 cm, working area height 120 cm;
7. working desks, height 85 cm;
8. desk with computer, height of 75 cm.

Project should include:

- Technical report.
- Printed results of calculations as an attachment.

Technical report must include:

- Brief description of the room.
- List of general requirements for lighting in the room.
- List of "workplaces" in the room with description of the appropriate lighting and other relevant parameters.
- Description and justification of the chosen concept and type of lighting.
- Description and justification of the selected light sources.
- Description and justification of the selected luminaires.
- Basic information about the room and selected light sources and luminaires.
- Main results with short discussion.
- Instructions for maintenance of the lighting.
- References.

Attachment of the technical report (print from the calculation program - DIALux) must contain all relevant information needed for evaluation of the project and its compliance with the requirements from the standards and other regulatory documents (e.g. technical guidelines).