

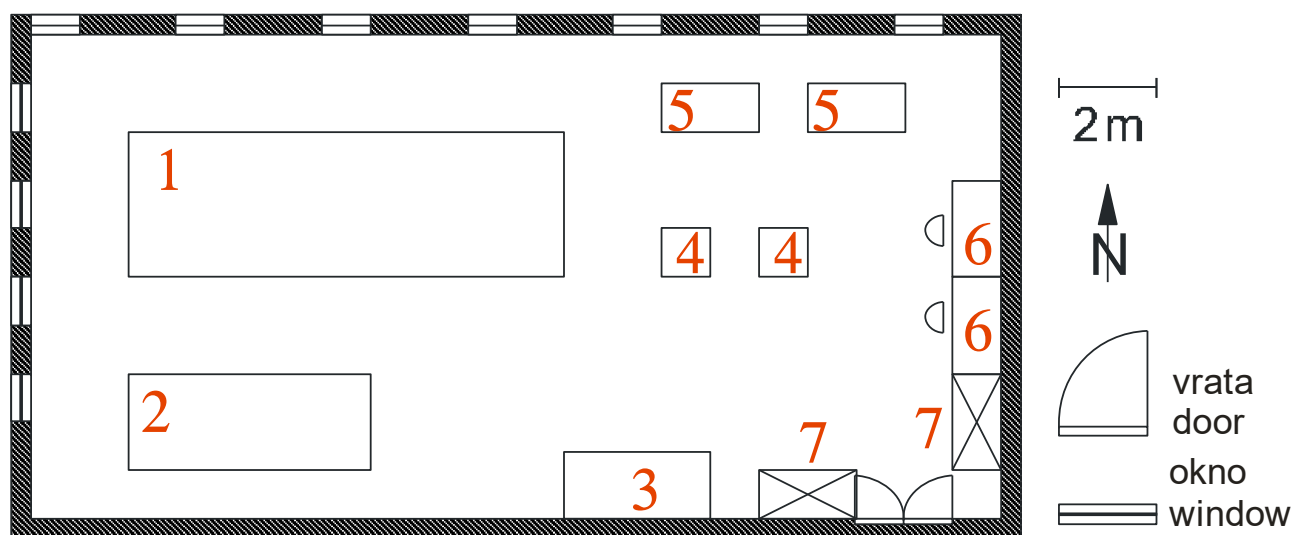
Projektna naloga

za izpit pri predmetu Svetlobna tehnika

Izdelajte projekt razsvetljave tiskarne.

Opis prostora:

- velikost prostora: dolžina: 20 m, širina: 10 m, višina: 5 m;
- odsevnosti: strop: 0,7, stene: 0,6, tla: 0,3;
- prostor je namenjen pripravi na tisk in tisku publikacij;
- strop bo izveden klasično – betonska plošča, inštalacije za svetilke v stropu;
- okvirni 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. tiskarski stroj 1, višina 200 cm;
2. tiskarski stroj 2, višina 180 cm;
3. stroj za razrez papirja, višina 160 cm, delovna površina na višini 120 cm;
4. mizi za pregled matric (osvetlitev od zadaj), višina 120 cm;
5. mizi za končno kontrolo tiskanin, višina 130 cm;
6. pisalni mizi z računalnikom za pripravo tiskanin, višina 75 cm,
7. visoka omara, višina 240 cm.

Projekt naj obsega:

- tehnično poročilo
- izpis rezultatov izračunov kot priložo

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).

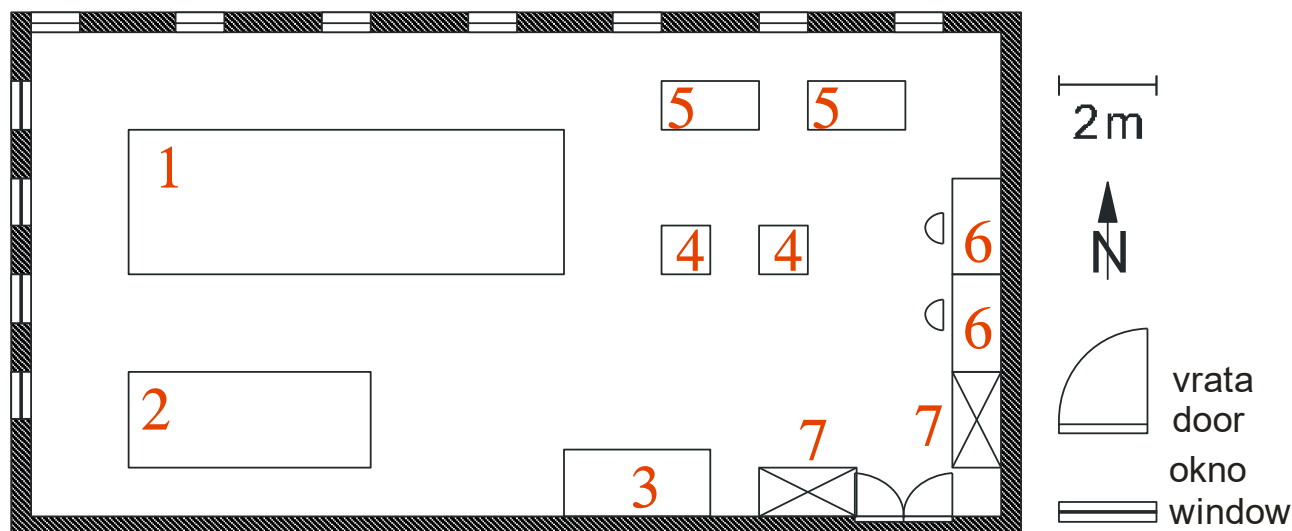
Project task

in the subject Lighting Engineering

Design lighting of printing house.

Description of the room:

- Size of the room: length: 20 m, width: 10 m, height: 5 m.
- Reflections of surfaces: ceiling: 0.7, wall: 0.6, floor: 0.3.
- The space is intended for preparing and printing of publications.
- 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. printing machine 1, height 200 cm;
2. printing machine 2, height 180 cm;
3. paper cutting machine, height 160 cm, working surface at a height of 120 cm;
4. tables for examination of matrices (with back lighting), height 120 cm;
5. tables for final control of prints, height 130 cm;
6. writing desk with computer for preparation of prints, height of 75 cm,
7. high cupboard, height 240 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).