

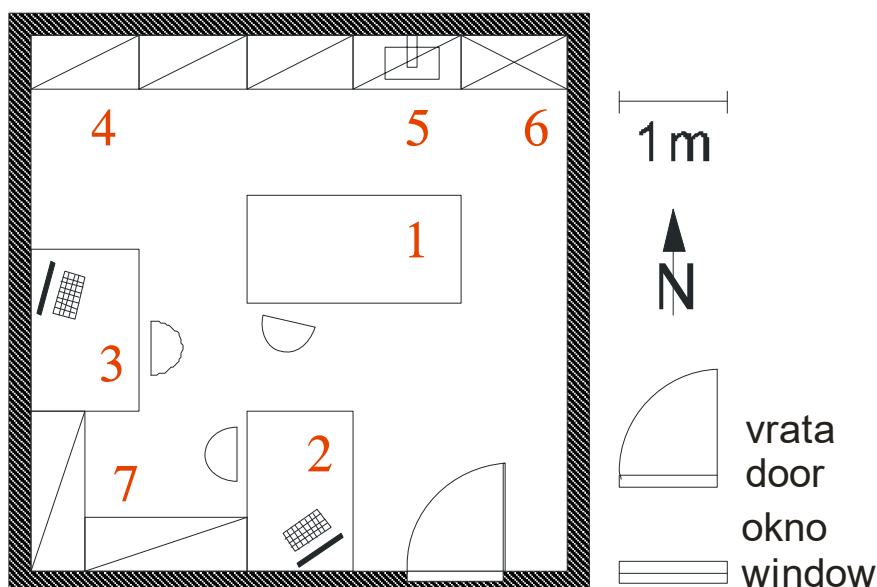
# Projektna naloga

za izpit pri predmetu Svetlobna tehnika

Izdelajte projekt razsvetljave zobozdravstvene ordinacije.

## Opis prostora:

- velikost prostora: dolžina: 5 m, širina: 5 m, višina: 4 m;
- odsevnosti: strop: 0,7, stene: 0,6, tla: 0,4;
- prostor je namenjen zobozdravstveni ordinaciji;
- strop bo izveden kot spuščen strop, nad njim je prostor za ožičenje svetilk;
- 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. zobozdravstveni stol;
2. pisalna miza z računalnikom za asistenta, višina 75 cm;
3. pisalna miza z računalnikom za zdravnika, višina 75 cm;
4. nizke omarice, višina 120 cm;
5. umivalnik;
6. visoka omara, višina 250 cm;
7. nizke omarice, 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

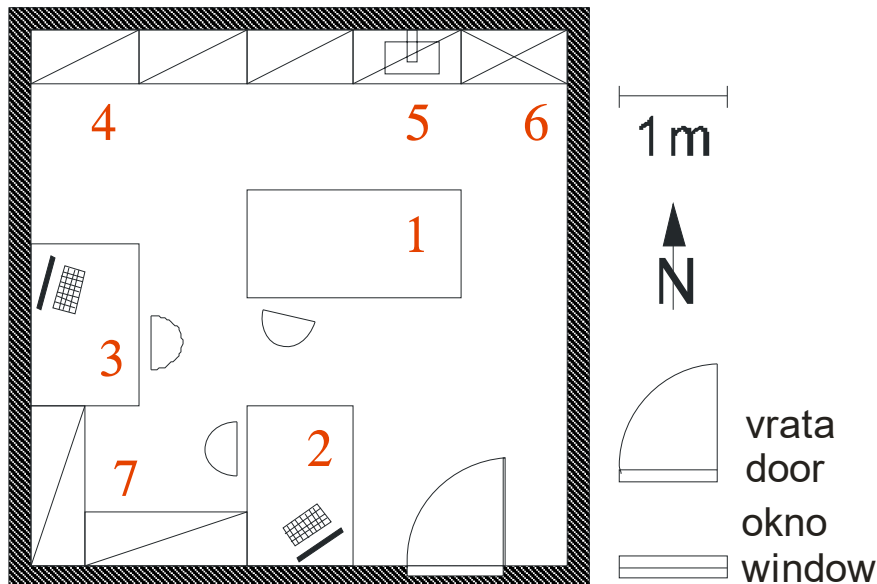
## in the subject Lighting Engineering

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### Design lighting of dental practice.

#### Description of the room:

- Size of the room: length: 5 m, width: 5 m, height: 4 m.
- Reflections of surfaces: ceiling: 0.7, wall: 0.6, floor: 0.4.
- Room is intended for a dental surgery.
- Ceiling is designed as a suspended ceiling; there is space for wiring about it.
- 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. dental chair;
2. desk with computer for assistant, height of 75 cm;
3. desk with computer for dentist, height of 75 cm;
4. low cabinets, height 120 cm;
5. washbasin;
6. high cupboard, height 250 cm;
7. low cabinets, height 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).