

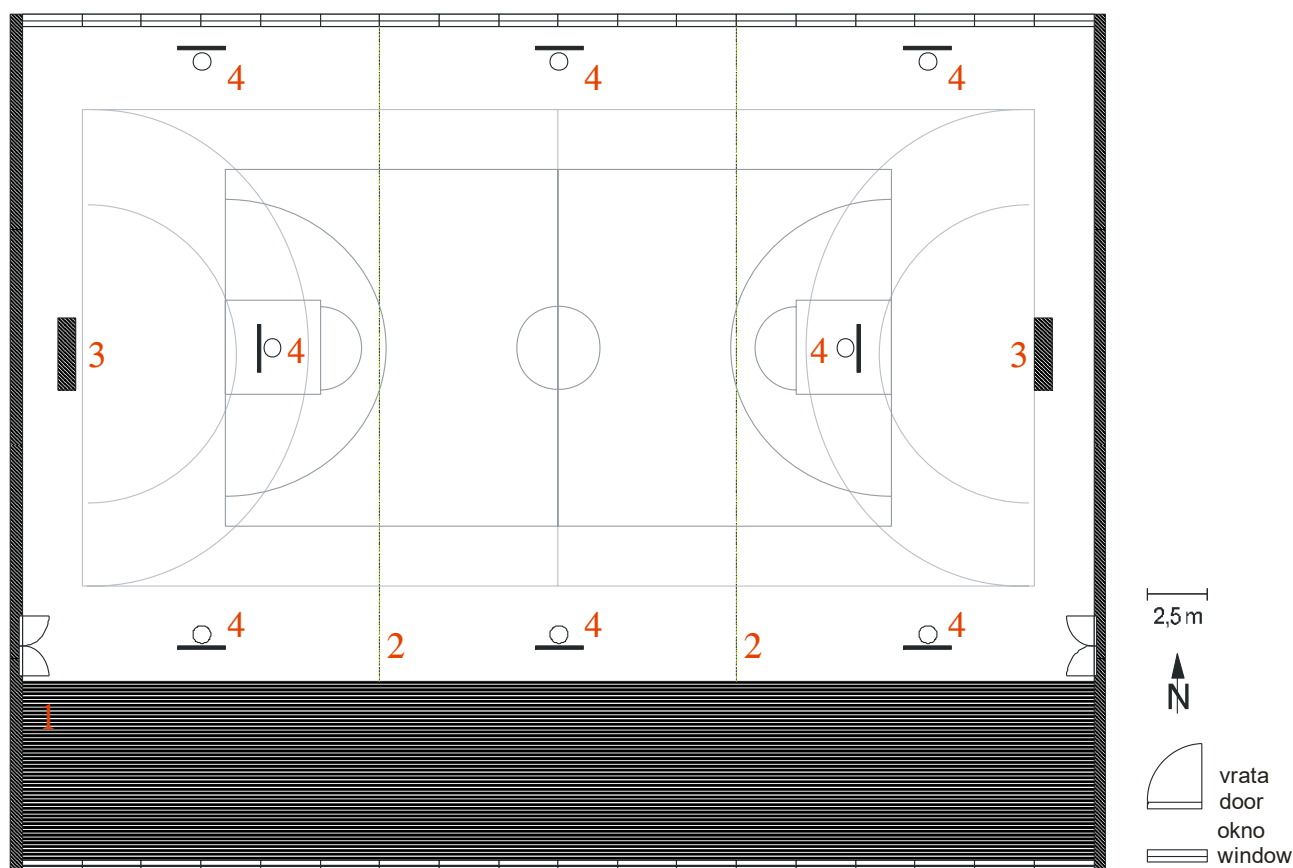
# Projektna naloga

za izpit pri predmetu Svetlobna tehnika

Izdelajte projekt razsvetljave telovadnice z igriščem za košarko in roket.

## Opis prostora:

- velikost prostora: dolžina: 45 m, širina: 35 m, višina: 7 m;
- odsevnosti: strop: 0,5, stene: 0,5, tla: 0,2;
- prostor je namenjen športnim dejavnostim;
- 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. tribune, višina zadaj 300 cm;
2. montažne predelne stene s katerimi se telovadnico razdeli v tri dele;
3. gola za roket;
4. koši za košarko, ki se zložijo pod strop.

## 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).

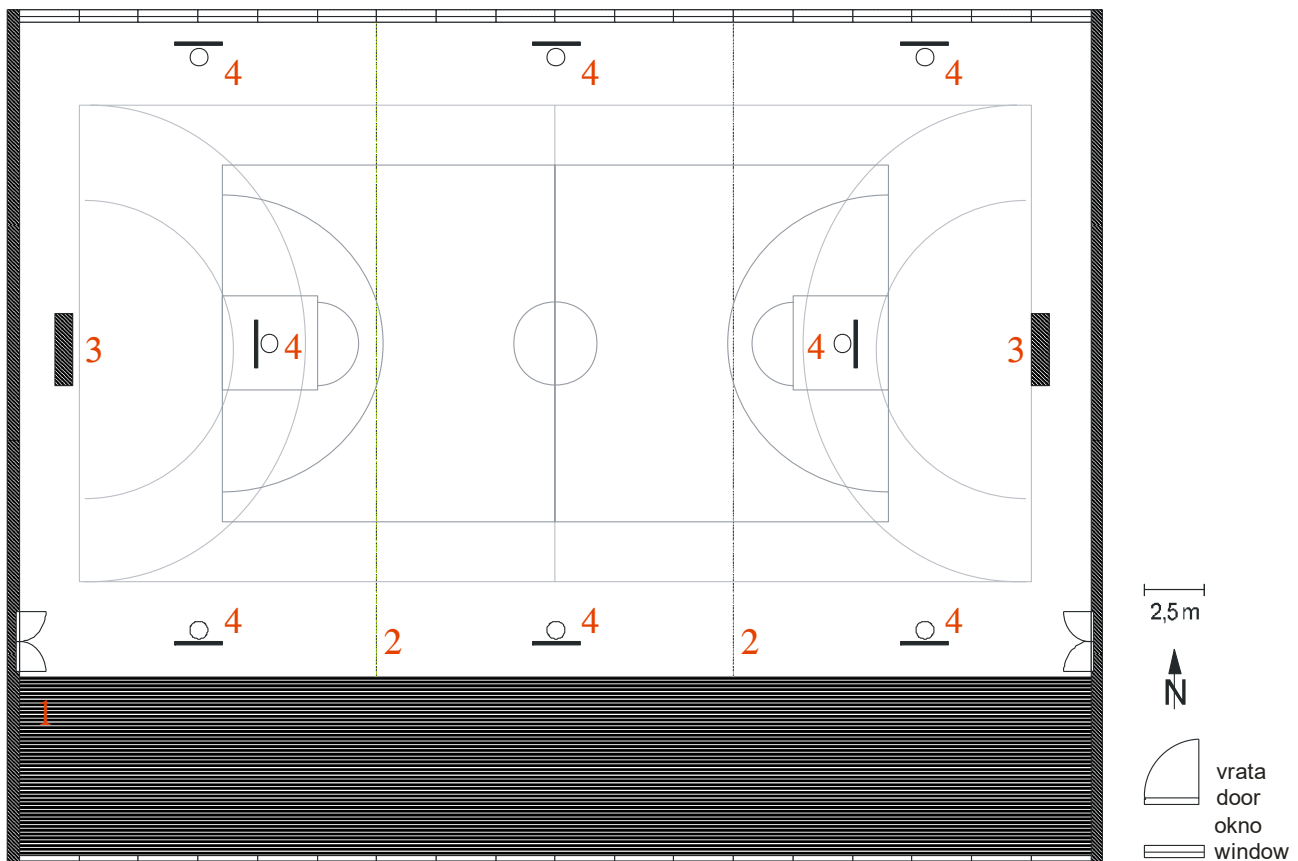
# Project task

## in the subject Lighting Engineering

### Design lighting of gym for basketball and handball.

#### Description of the room:

- Size of the room: length: 45 m, width: 35 m, height: 7 m.
- Reflections of surfaces: ceiling: 0.5, wall: 0.5, floor: 0.2.
- Gym is intended for sports activities.
- 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. tribune for spectator, height at rear end 300 cm;
2. assembly partition walls with which the gym could be divided into three parts;
3. goal for handball;
4. basketball basket which can be stacked under the ceiling.

**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).