

1. Building management is primarily focused on:

- ☒ ensuring the safety of people and property
- ☐ increasing environmental responsibility of employees
- ☒ internal transport of passengers and goods
- ☐ optimizing the number of people in buildings
- ☒ reducing energy costs
- ☒ optimization of working conditions

2. Assign the terms from the left column to the corresponding statement on the right!

Fire Protection Systems	1. Card or chip readers are placed on each side of the door 2. Electric lock 3. Door contact 4. Emergency escape buttons are located on each side of the door
Transport Systems	Exterior building lighting, Lighting for common areas of the building, Room lighting
Access system contains	Fire Alarm Systems (FAS) also called Automatic Fire Detection System, Fire Suppression System (FSS), Smoke Exhaust Ductwork (SED)
Lighting systems can be divided as follows:	<ul style="list-style-type: none">• escalators• travelators• elevators

3. Complete the sentence!

$\left(\begin{array}{c} \text{Regulation} \\ \text{SCADA} \\ \text{Fuzzy control} \\ \text{Logical control} \end{array} \right)$ is described in the theory of automation by functions of Boolean algebra and theory of state machines.



4. Choose the correct option: *Building safety technology includes*

- ☐ transport systems
- X** access to the building (persons and vehicles)
- ☐ lighting systems
- X** closed circuit television
- X** fire protection systems
-

5. Fill the correct elements in the corresponding blocks!**Resistance thermometer****Ni of Pt****Thermocouple****iron (Fe) - constantan**

Ni or Pt

Cu

iron (Fe) - constantan

He

6. Complete the sentences!

Thermoelectric effect relies on **thermoelectric voltage which is transformed into heat in the junction of the two metals.**

The resistance thermometer is based on the fact that **any material changes its electrical resistance depending on the temperature.**

7. Explain the parts of SCADA systems

SCADA means: **Systems which enables supervision, control and archiving of events in a technological processes.**

HMI means: **Human Machine Interface - imaging software that performs visualization of technological processes.**

**Erasmus+**

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8. Choose the correct option!

_____ **a** _____ – Thermal output control can be realized through

- a) Control of the heat source**
- b) Controlling the access to a building
- c) Lights regulation

_____ **b** _____ – Which factor influences the heat control?

- a) Distance between the control system and heat source
 - b) Type of heat transfer medium**
 - c) Control buses used in the building
-

9. Complete the sentence!

KNX bus - it is a successor of $\left(\begin{array}{c} \text{Modbus} \\ \text{EIB} \\ \text{RS-485} \\ \text{RS-232C} \end{array} \right)$ with more features.

