RCOMP - Redes de Computadores

(Computer Networks)

2020/2021

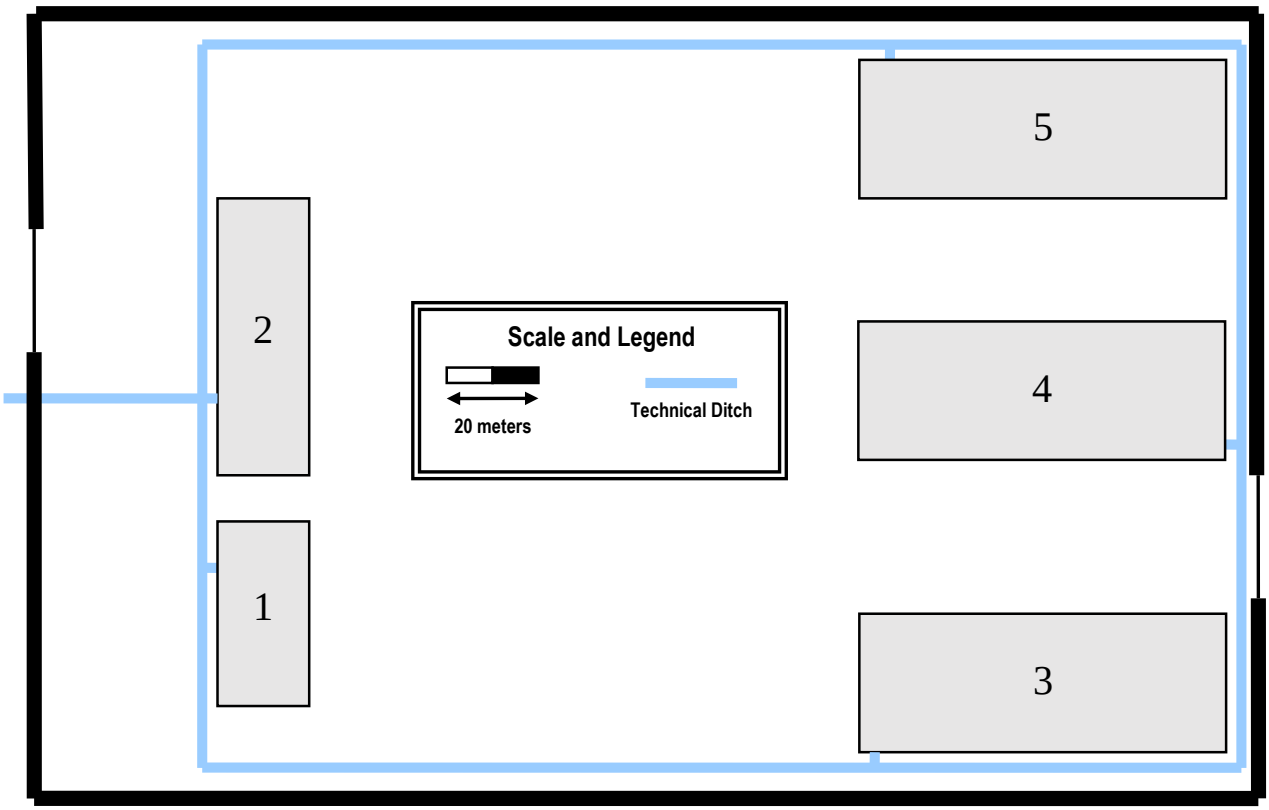
Project description - sprint 1

The team is enrolled in a structured cabling project, the outcome for this sprint is a structured cabling deployment plan for the given physical environment. The project owner role is assumed by the laboratory classes' teacher.

1. Physical environment description

The structured cabling project is to embrace an industrial private closed area with five buildings, they all have two floors. These buildings are numbered/designated as 1, 2, 3, 4, and 5.

The schematic plan below shows how those buildings are implanted in the area. An underground technical ditch with cable raceways (in light blue) exists and includes cable passage ways for all buildings, it's ready for telecommunications cabling and others.



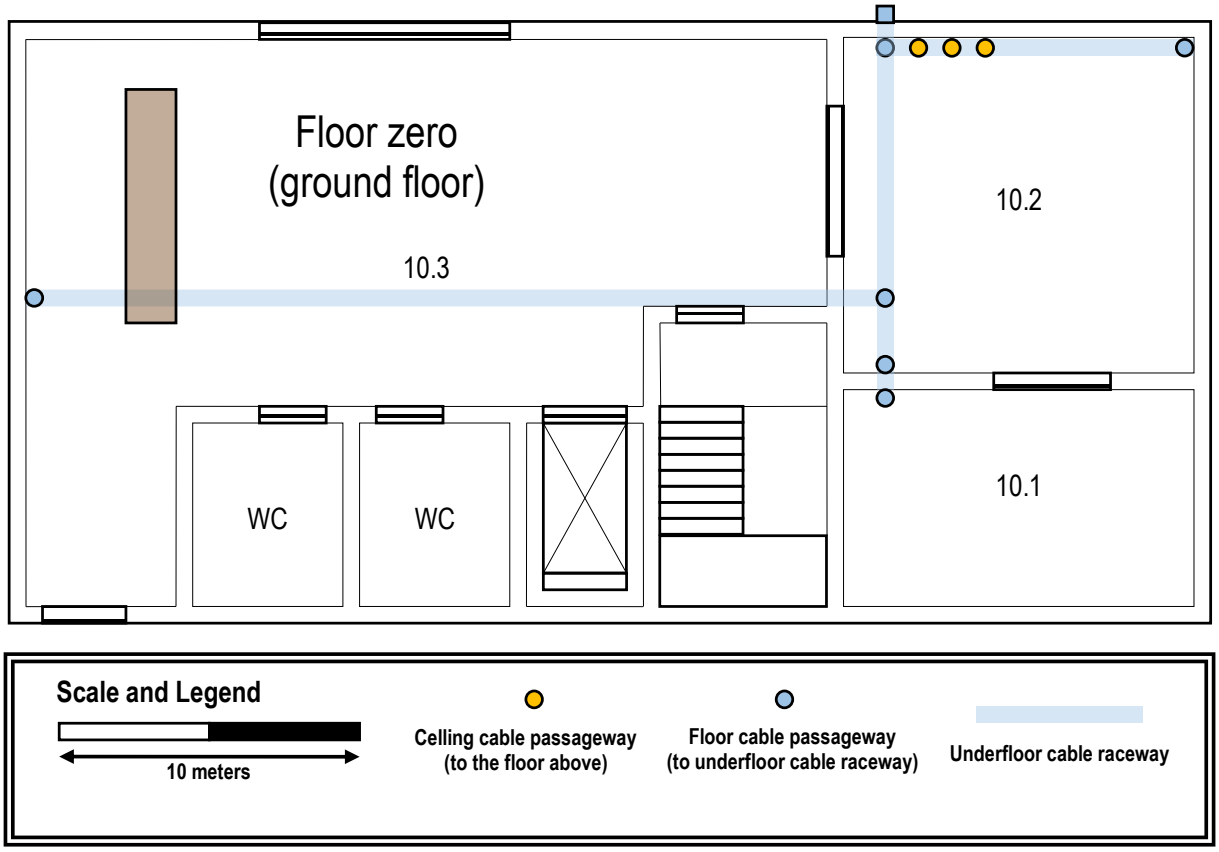
- The building 1 horizontal dimensions are, approximately, 40 x 20 meters.
- The building 2 horizontal dimensions are, approximately, 60 x 20 meters.
- Buildings 3, 4, and 5 horizontal dimensions are, approximately, 80 x 30 meters.

1.1. Building 1

The building 1 is committed to house the datacentre, it will also house the main cross-connect for the structured cabling system. Both floors should have wireless LAN coverage (Wi-Fi).

1.1.1. Building 1 - Ground floor

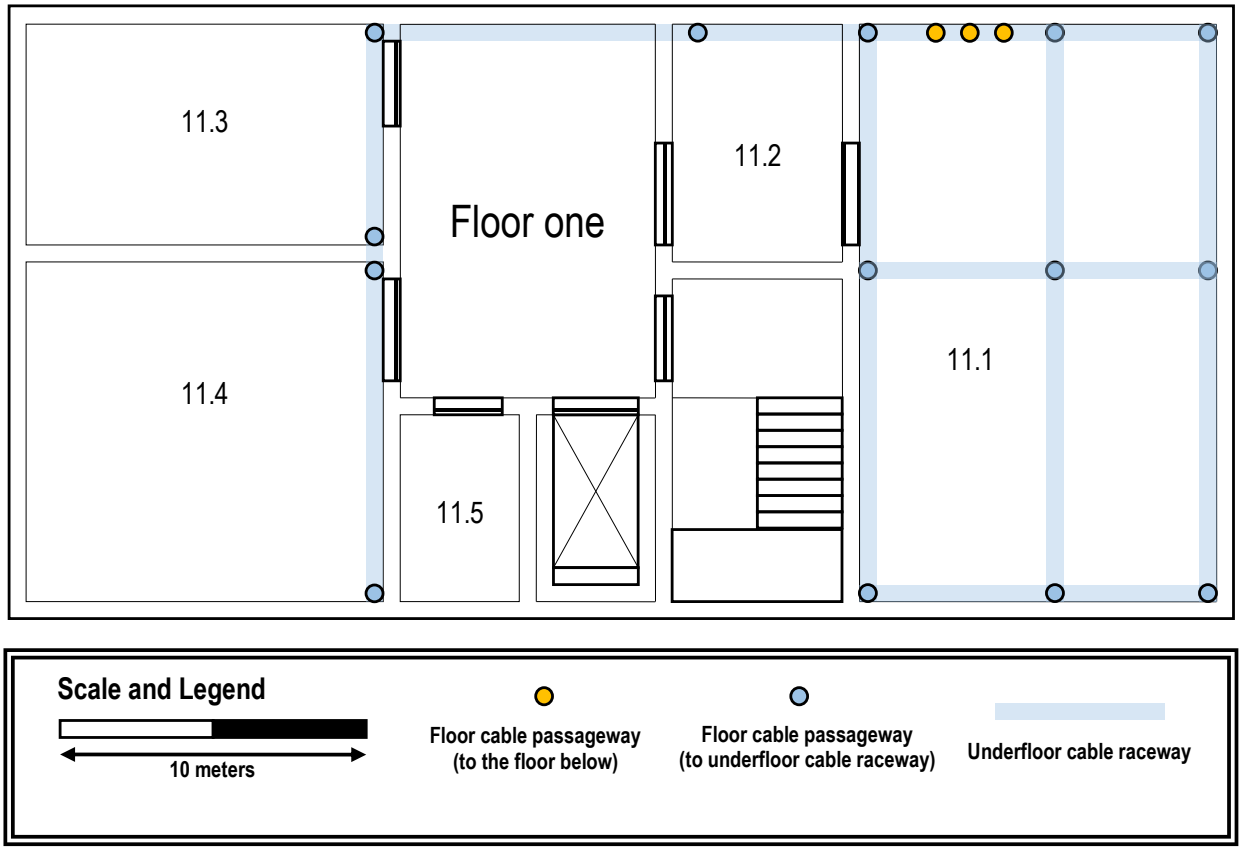
The ground floor is provided with an underfloor cable raceway connected to the external technical ditch. Access to the underfloor cable raceway is available at points marked over the plan. Multiple cable passageways are available to the above floor where the datacentre is housed.



The ceiling height on this floor is 4 meters. The 10.3 entrance area requires no network outlets, except for the entrance desk (in brown) where 5 outlets should be available, elsewhere the standard number of outlets per area rates should be honoured.

1.1.2. Building 1 - Floor 1

This floor also has an underfloor cable raceway. Access to the underfloor cable raceway is available at points marked over the plan. The ceiling height on this floor is 3 meters.



The 11.1 area is will house the datacentre itself, wiring and outlets there, are out of scope of this project. Room 11.5 is for storage and no outlets are required there, elsewhere the standard number of outlets per area rates should be honoured.