



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

Malaysia-Japan
International
Institute of Technology
(MJIT)

SECR1213 NETWORK COMMUNICATION

20242025 – SEMESTER 1

PHASE 1

Floor Plan Design

FACULTY OF MJIT

GROUP A&C

NAME	MATRIC ID
Kahlan Sultan Mohammed	A23MJ4021
Liu Ruoyang	A23MJ4022
Buguoshun	A23MJ4019
Abdulrahman Siad	A23MJ3061

Brief introduction on our floor planning activity:

Our team was tasked with creating a comprehensive floor plan for a two-story multipurpose structure that would support the Faculty of Computing's (FC) future expansion as part of the Network Communication module (SECR1213). FC anticipates a 15% increase in both students and personnel over the next four years, with a present population of 1800 students, 100 academic staff, and 40 support staff. In order to accommodate this expansion, a cutting-edge, functional building that is affordable, future-proof, and capable of supporting both academic and technical endeavors must be constructed.

The new building will house four key labs, including:

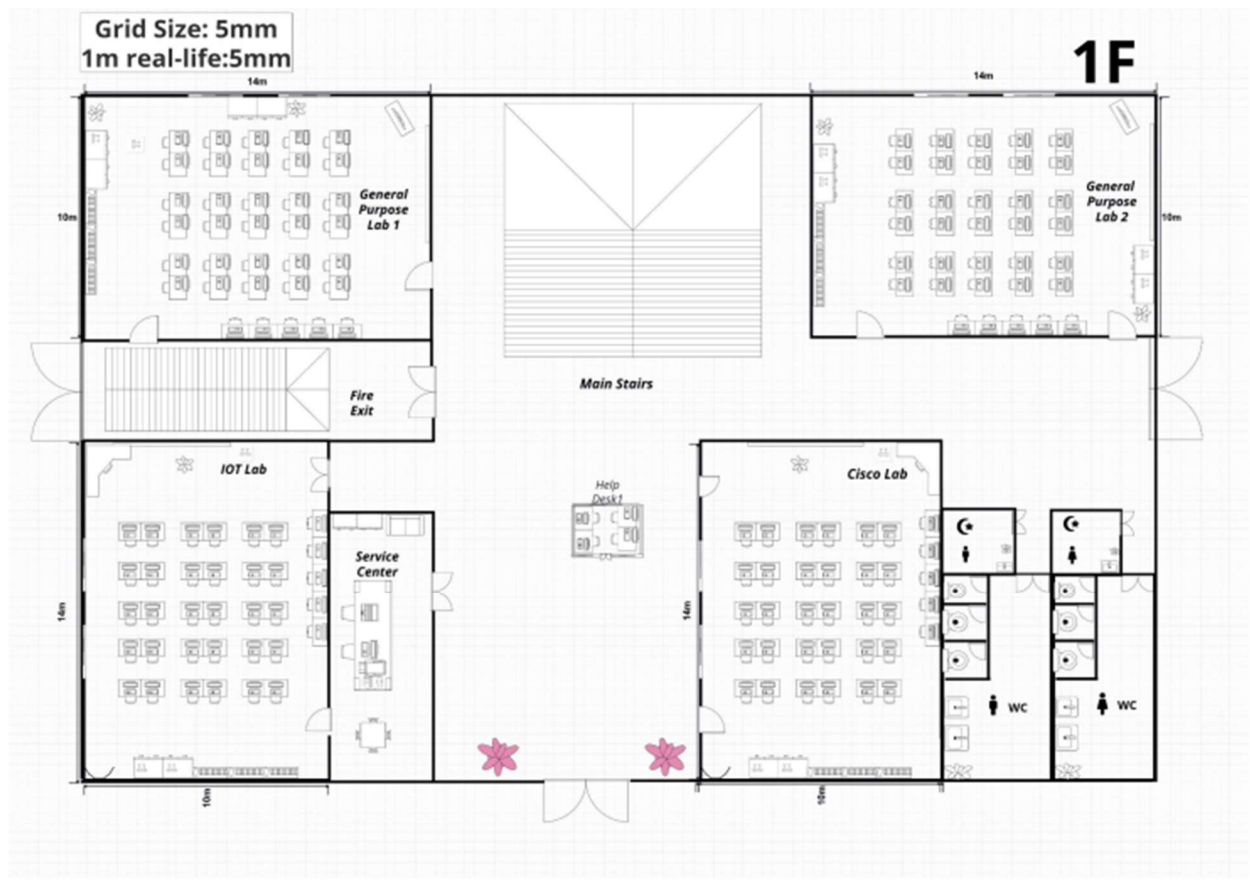
- **2 General-Purpose Labs:** These labs, each with 30 workstations, will serve a variety of academic needs.
- **Cisco Network Lab:** A specialized lab designed to provide hands-on networking education using the latest Cisco equipment.
- **Embedded Lab:** Dedicated to IoT, sensors, and digital systems, this lab will facilitate research and learning in line with the advancements of the 4th Industrial Revolution (4IR).

Additional features include:

- **A Video Conferencing Room:** Equipped for virtual meetings and collaborative projects.
- **Hybrid Classroom:** Designed for flexible and efficient teaching and learning experiences.
- **Student Lounge:** A comfortable space for students to relax and work, with high-speed wireless connectivity.

Floor Details:

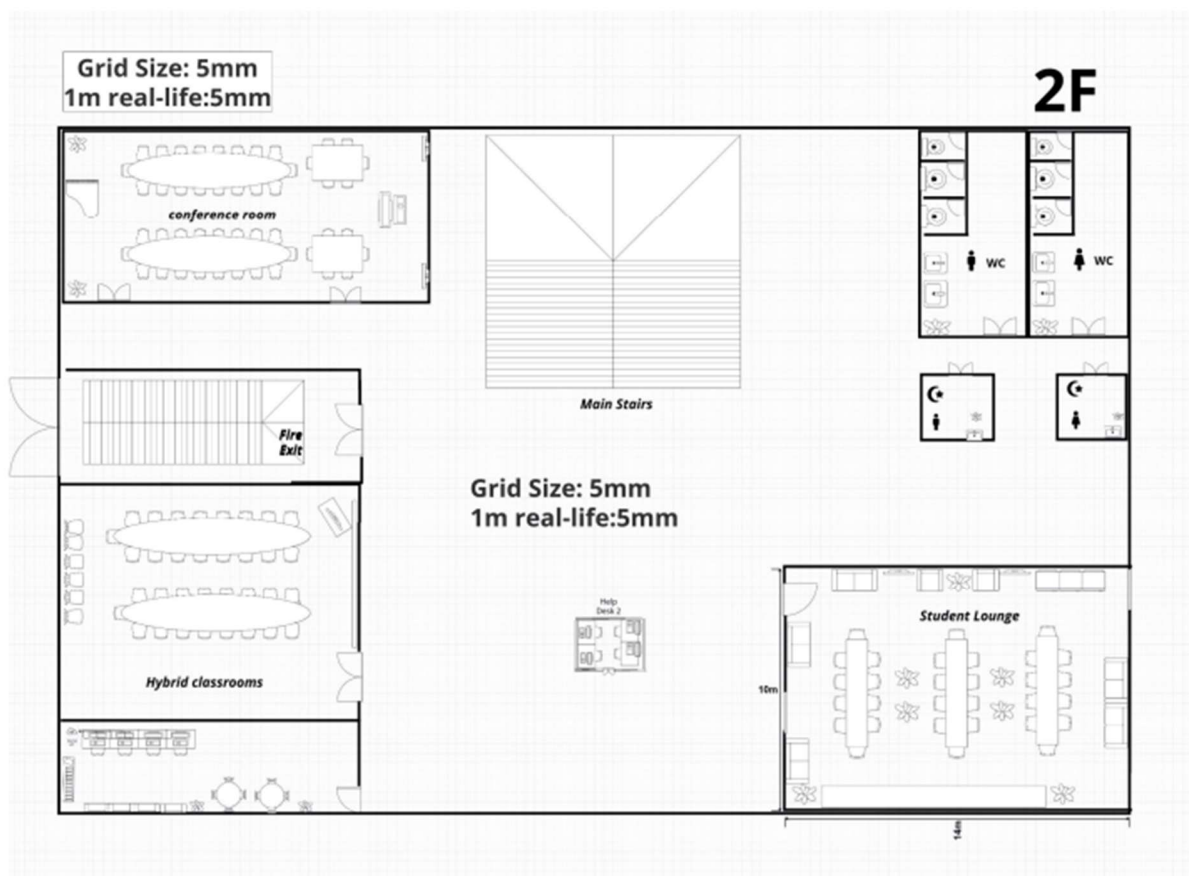
First Floor Layout



- ❖ The first floor of the building is designed with a focus on laboratory spaces, technical support, and basic facilities for both students and staff.
- ❖ The key features include:
- ❖ **2 General Purpose Labs** (14m x 10m each): These labs are equipped with 30 workstations each, providing flexible spaces for a wide range of computing courses.
- ❖ **Cisco Lab** (14m x 10m): A dedicated lab for networking, equipped with Cisco devices to facilitate hands-on learning and practical network setup.
- ❖ **IoT Lab** (14m x 10m): Designed to support learning in IoT, digital sensors, and related technologies, this lab fosters innovation in line with 4IR trends.
- ❖ **Service Center**: A support area for technical assistance and maintenance of equipment.
- ❖ **Help Desk**: Strategically located near the entrance for student and staff assistance.

- ❖ **Fire Exit:** Positioned for quick access to ensure safety and evacuation in case of emergencies.
- ❖ **2 Surau (Prayer Rooms):** Separate rooms for men and women, ensuring religious inclusivity.
- ❖ **2 Washrooms:** One for men and one for women, providing necessary facilities on the floor.
- ❖ **Main Stairs:** Centrally located to provide easy access to the second floor.

Second Floor Layout



- The second floor is more focused on collaborative spaces, teaching, and student relaxation areas. The key features include:
- **Video Conferencing Room:** A fully equipped space for virtual meetings, presentations, and remote collaborations.
- **Hybrid Classroom:** This classroom is designed with flexible seating and high-performance equipment for both traditional and online teaching formats.

- **Student Lounge:** A comfortable area for students to relax, study, and collaborate, while connected to the network via high-speed Wi-Fi.
- **Help Desk:** Similar to the first floor, this is an information and assistance center for students and staff.
- **Fire Exit:** Strategically located for safety and evacuation purposes.
- **2 Surau (Prayer Rooms):** Separate prayer spaces for men and women.
- **2 Washrooms:** One for men and one for women, ensuring convenience for everyone on this floor.
- **Main Stairs:** Providing access to the first floor and connecting both levels for ease of movement.

Meeting Minutes

DATE/TIME		13/10/2024 10:00a.m.----12:00a.m.	
LOCATION		Webex online meeting	
AGENDA		Discuss about task1	
MEETING MC		Liu Ruoyang	
ATTENDENCE			
NAME	TIME		REASON OF ABSENCE
Kahlan Sultan Mohammed	10:00am—12:00am		N/A
Liu Ruoyang	10:00am—12:00am		
Buguoshun	10:00am—12:00am		
Abdulrahman Siad	10:00am—12:00am		
MINUTES			
NO.	ITEM DISCUSSED	IDEAS/SUGGESTIONS AND PERSON GIVING IT	PERSON IN CHARGE AND DATE
1	Group name	A&C by Kahlan since we are Arab and Chinese.	Kahlan(13/10)
2	Software to be used	Visual Paradigm found by Liu since it has many pre-made icons available.	Liu Ruoyang(13/10)
3	Floor design	Liu and Kahlan take charge of designing first floor. Abdul and Bu take charge of second floor.	Everyone(13/10)
4	Next meeting	Whenever the preparation of task 2 begins.	Everyone(13/10)
5	Meeting ended	12:00	Everyone(13/10)

Projected Marks

Task1

ITEM	MARKS
Group name and members	2/2
Suggested floor plan	
Fit description - 2 general purpose lab, 1 Cisco Network lab and 1 IOT lab, 1 video conferencing rooms, 1 student lounge	2/2
A total 30 workstations and other equipment planned for each lab	2/2
Scale: with scale	1/1
Clear and readable. Has appropriate labels	2/2
Creativity	1/1
Total	10/10