



COMPUTER NETWORK

SECTION 02

PROJECT (TASK 1)

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1.0 FLOOR PLAN

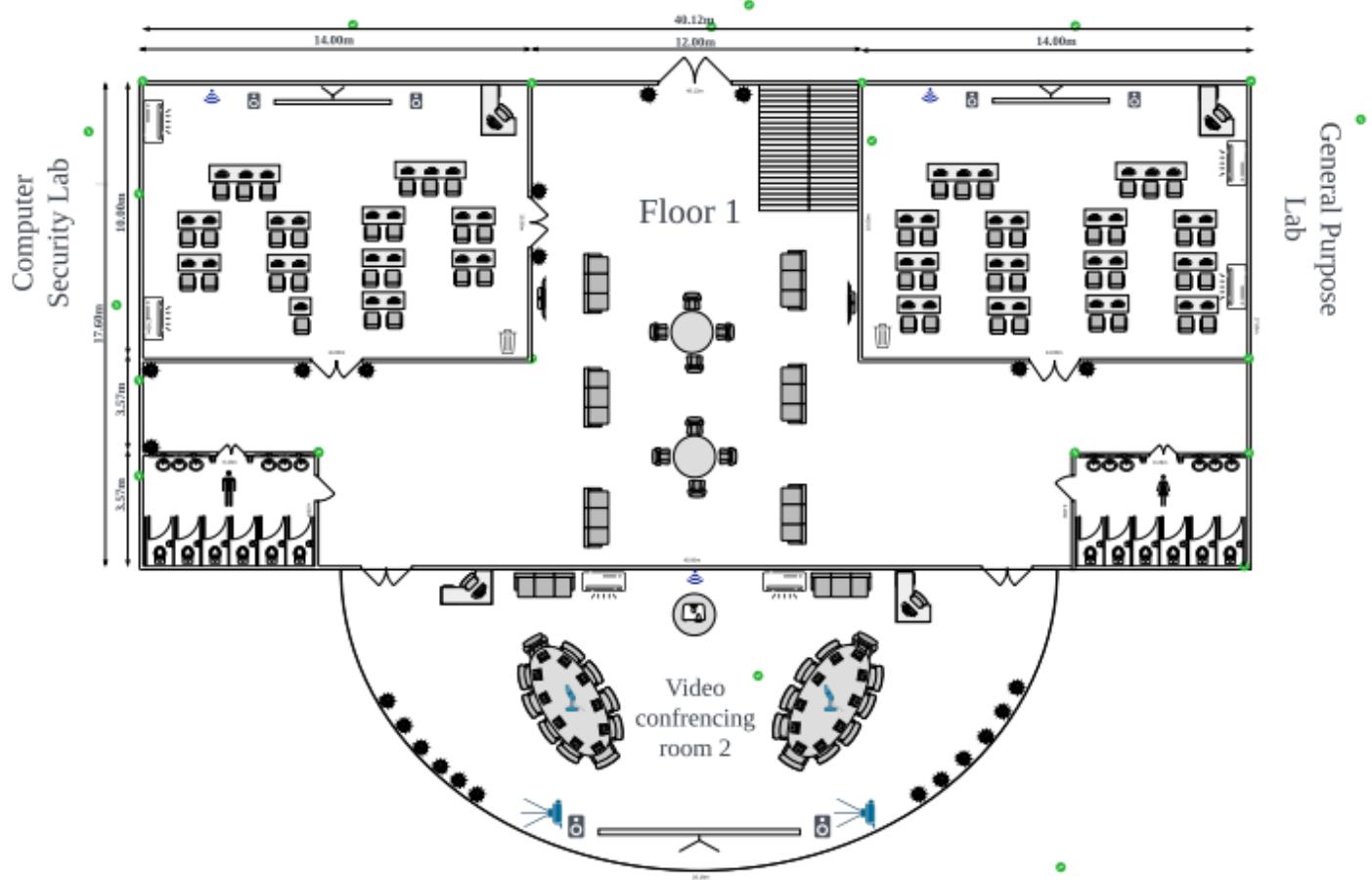


Figure 1.0 shows first floor

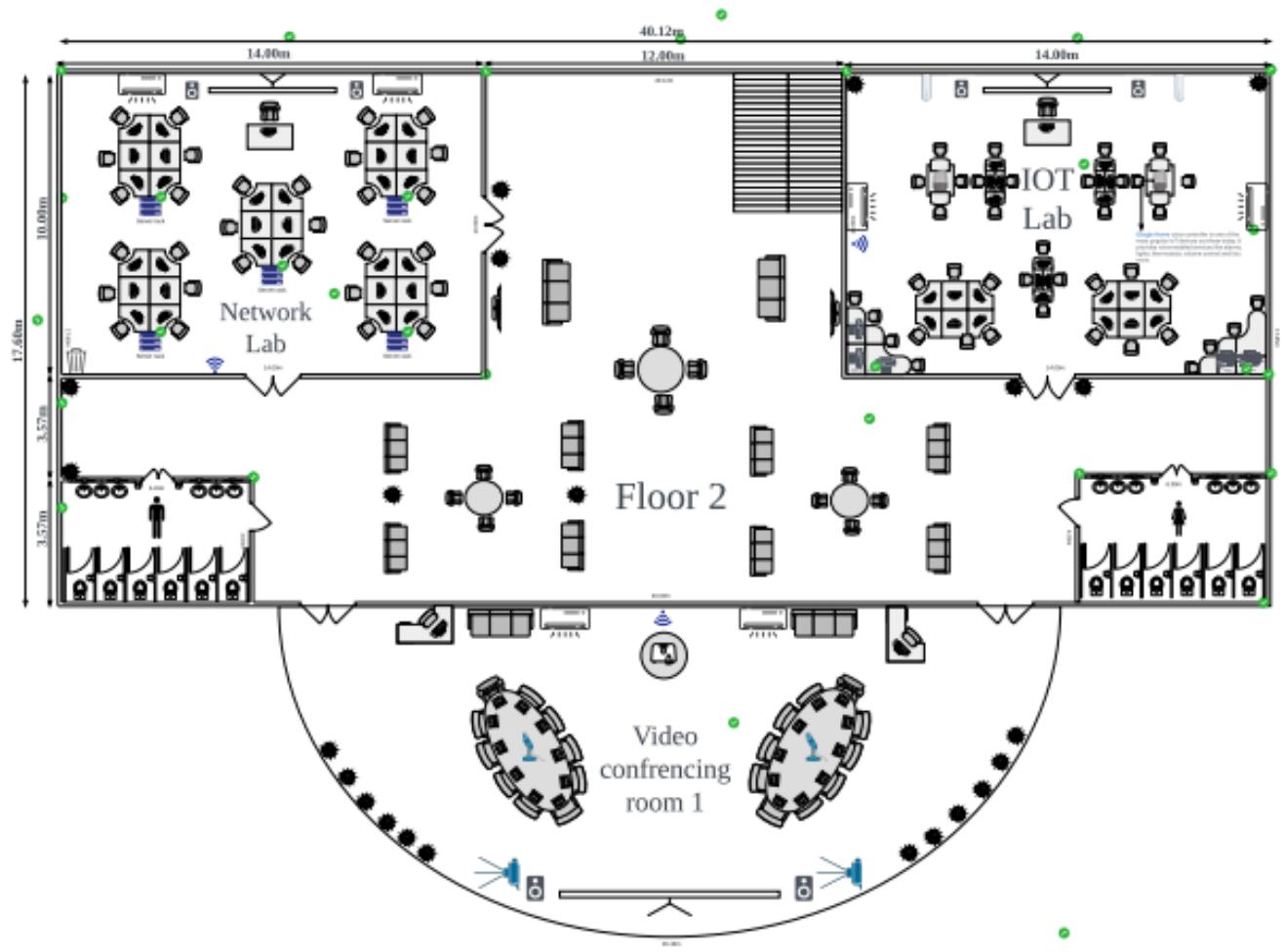


Figure 1.1 shows first floor

2.0 DESCRIPTION

GENERAL PURPOSE LAB

As we can see, we also have included one general purpose lab that could be used by everyone. In this general purpose lab we are installing 31 workstations where students can comfortably learn and educate themselves. This general purpose lab could be used to conduct classes, presentations, doing group works and many more. We are also providing this room with network connection to make the learning environment much more convenient

COMPUTER SECURITY LAB

We are trying to provide vast practical knowledge to the computer security (Cyber security) students to get hands-on in penetration testing, cryptography, and more. Believing that this lab can act in such a way, we are installing 25 workstations with Linux OS. Additionally, we are providing Virtual Box where students will have the experiences exploring multiple OSes.

NETWORK LAB

Students get to explore the network devices while their lab session in this network lab. Here, we are providing racks of switches and routers which are connected to workstations. Students tend to learn fundamentals of networks such as configurations of switches and routers. Here, we are providing 32 workstations altogether for students to carry out their lessons. We are also letting the students to gain knowledge about physical connectivities as there would be multiple type of physical media available in the lab such as UTP cable, fiber optic cable and etc.

IOT LAB

Exposing Science Computer students to IOT devices is the purpose for the lab to get developed in our project. In the lab, we included IOT related devices such as 3D printers, Foobot, Google Home, and smart air-cons. We are placing 25 workstations in the lab for students to carry out their studies. Foobot is an IOT device that can accurately measure indoor air pollution index (API) which can help in improving the air quality of the lab. Google home is a voice controller IoT device which can be featured in timer, weather forecast, alarm, speaker's volume controller and etc. Apart from this, IoT devices such as smart light, smart window, light/sound sensors which can trigger windows and projector are also suited in the lab.

VIDEO CONFERENCING ROOM

We have a video conferencing room which will be used mostly for important meetings for the lecturers, VIPs and student committees. This room will be equipped with 2 workstations that will be used for presentations and many other meeting related activities. We are also installing certain IOT devices in this room as it will be more professional and make the presentations and meetings much convenient. IOT devices we are installing are such as smart projector and smart screen. This room also will be built to be soundproof to uphold the privacy in the room and make the environment in the room controlled during a meeting.

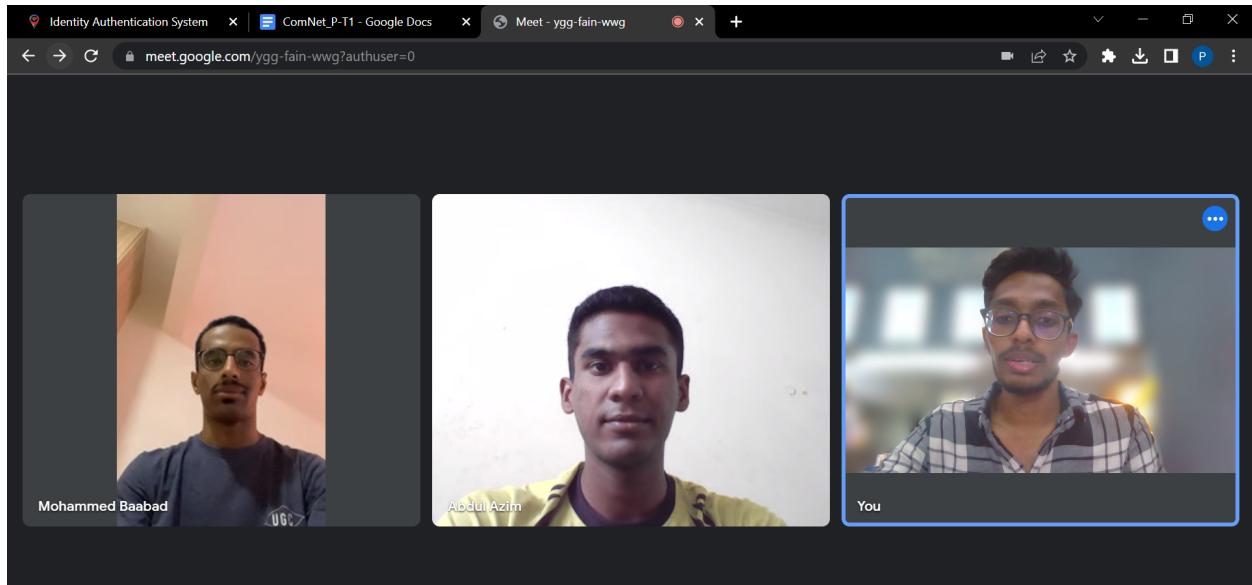
3.0 APPENDIX

Meeting 1



DATE	27 March 2023
TIME	1:10 P.M. - 1:40 P.M
VENUE	Ground floor, N28
DESCRIPTION	Discussion and task division on task 1.
ATTENDANCE	4 / 4

Meeting 2



DATE	29 March 2023
TIME	1:10 P.M. - 1:40 P.M
VENUE	WebEx (Online)
DESCRIPTION	Report finalization before submission
ATTENDANCE	3 / 4