**Group Name: Nemesis**
**Section: 06**

**Answer:**
**Task 04:**

a) Identify the work areas on your floor plan.

**Workstation located at General student lab, Video editing lab and at one Digital Lab. There are two Computer Labs which are opposite to each other, server located at server room.**

b) How many connections, patch cords and switch ports have you determined you need?

**CONNECTION**

**84 connection from workstation to 12 port switches, 9 connection switches to router. 1 connection from 12 port servers to switch**

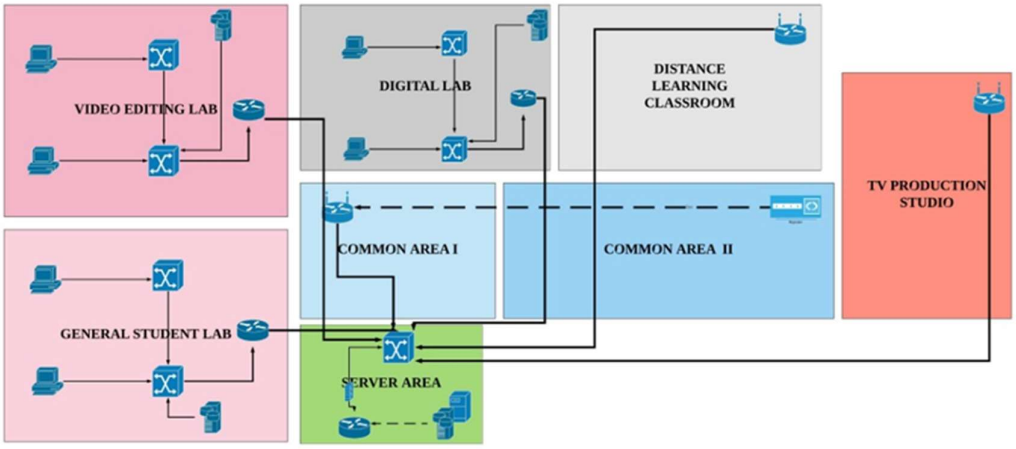
**PATCH**

**84 patch cord between all pc and all wall sockets, again 56 patch cords between wall socket and 7 switch, 1 patch cord between the router, 4 patch cord between switches and router, 4 patch cord between server and switch**

**Switch port**

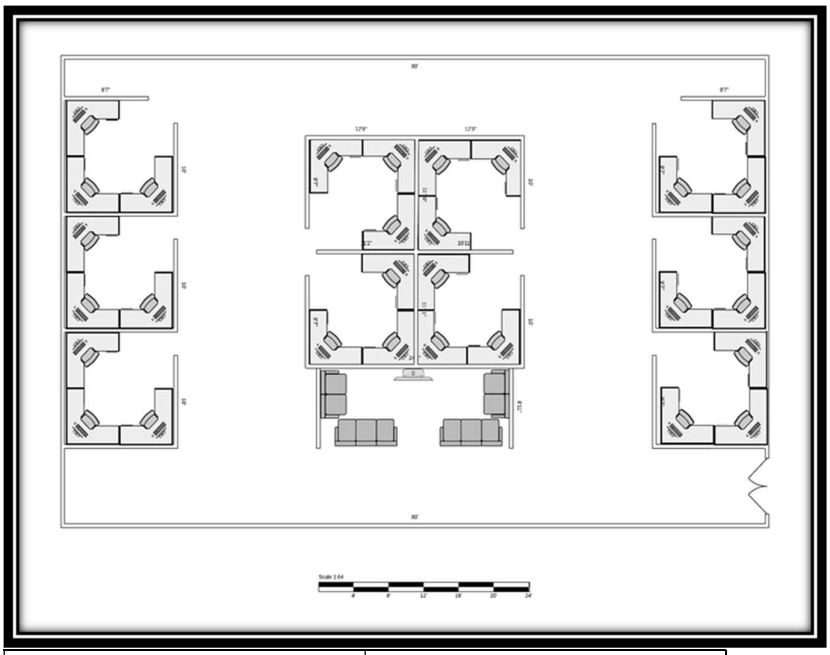
**Six 48 port switches**

c) Measure the floor plan for the case study to see the maximum distance they have to cover from the MDF. Do not forget to add in the cable length going up the walls and around corners. Record the lengths




| LAB | PC TO SWITCH (LENGTH) (METER) | Switch TO ROUTER (LENGTH) (METER) | TOTAL LENGTH (METER) |
|---|---|---|---|
| Video editing lab | 400 | 85 | 485 |
| General student lab | 400 | 40 | 440 |
| Digital lab | 354 | 95 | 449 |
| Distance learning classroom | Router to server 160 | | 160 |
| TV production studio | Router to server 180 | | 180 |
| Common area 1 | Router to server 45 | | 45 |
| TOTAL | | | 1759 METER |

Drawing plan for Video editing lab, General student lab and Digital Lab



| PC | Length Form Switch |
|---|---|
| P1 | 17 |
| P2 | 18 |
| P3 | 15 |
| P4 | 16 |
| P5 | 18 |
| P6 | 19 |
| P7 | 13.5 |
| P8 | 14.5 |
| P9 | 16.5 |
| P10 | 17.5 |
| P11 | 12 |
| P12 | 13 |
| P13 | 15 |
| P14 | 16 |
| P15 | 10.5 |
| P16 | 11.5 |
| P17 | 14.5 |
| P18 | 14.5 |
| P19 | 9 |
| P20 | 10 |
| P21 | 12 |
| P22 | 13 |
| P23 | 7.5 |
| P24 | 8.5 |
| P25 | 10.5 |
| P26 | 11.5 |
| P27 | 12.5 |
| P28 | 11 |
| P29 | 10.5 |
| P30 | 12 |
| TOTAL | 400 METERS |