

VR for Hospital Fire Management

Work System Design Laboratory
Group 2

SPRING 2021-2022

Our Team

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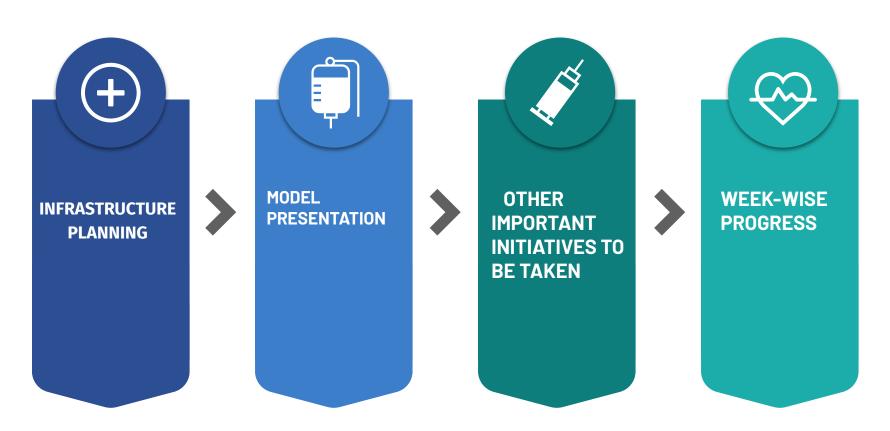
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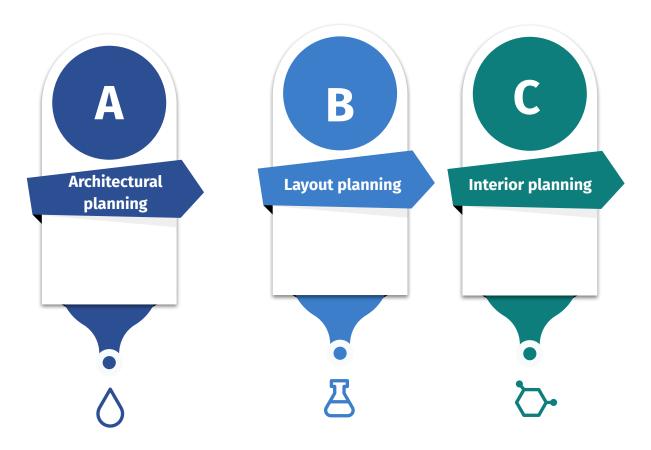
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Link of Final Model

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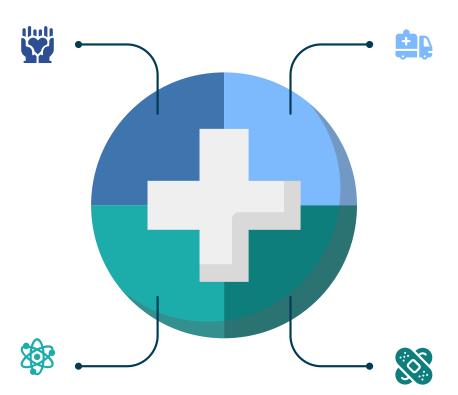
HOSPITAL INFRASTRUCTURE PLANNING



ARCHITECTURAL PLANNING

01

Sufficient open space between two buildings so as to minimize fire spread possibilities from other neighboring structure



02

There is enough space for movement and parking of fire fighting vehicles, ambulances, etc in the premises and wide road approach to the building.

03

The size and no. of occupancy, lobbies, staircase, ramps etc is sufficiently wide

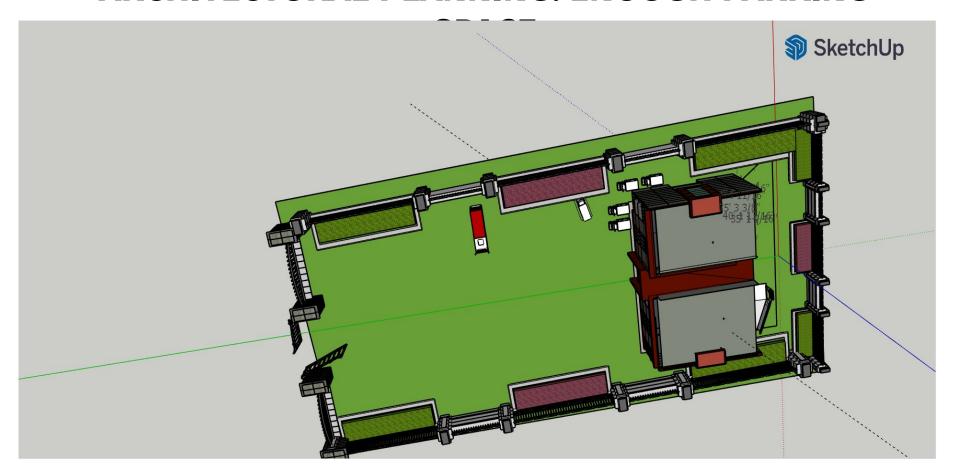
04

Ensuring movement of traffic and quick evacuation during emergencies.

ARCHITECTURAL PLANNING: SUFFICIENT OPEN

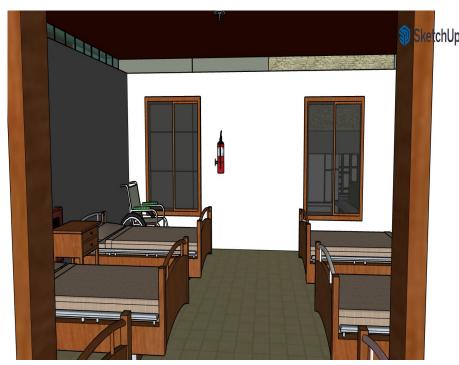


ARCHITECTURAL PLANNING: ENOUGH PARKING

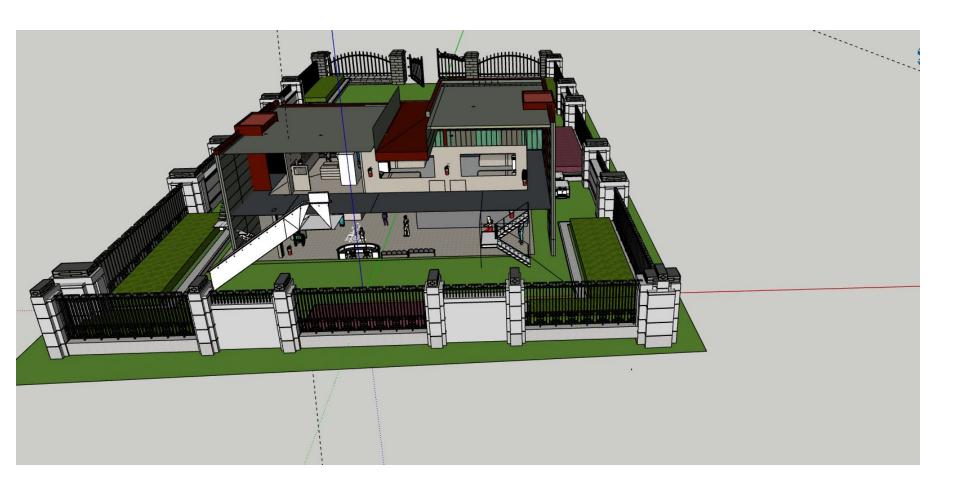


ARCHITECTURAL PLANNING: LOBBIES AND OCCUPANCIES





ARCHITECTURAL PLANNING: TRAFFIC MANAGEMENT



LAYOUT PLANNING

01

The design of the building structure so planned that it allows pressurized exclusion of smoke in case of fire or any smoke leak.

02

Must have enough doors and widows

03

Safe and easy means of access provided to and in every place of work / in patient area.



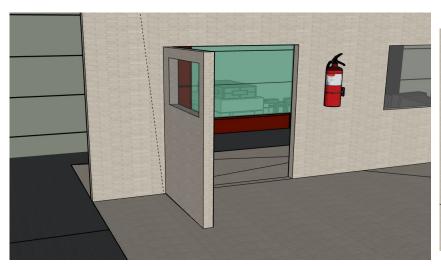


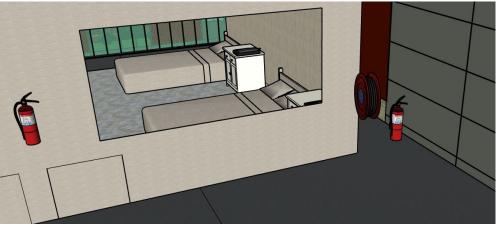
In case of emergency, safe and rapid exit provided for all occupants. Each building must have separate fire exit, staircase with proper signage

LAYOUT PLANNING: SMOKE EXCLUSION

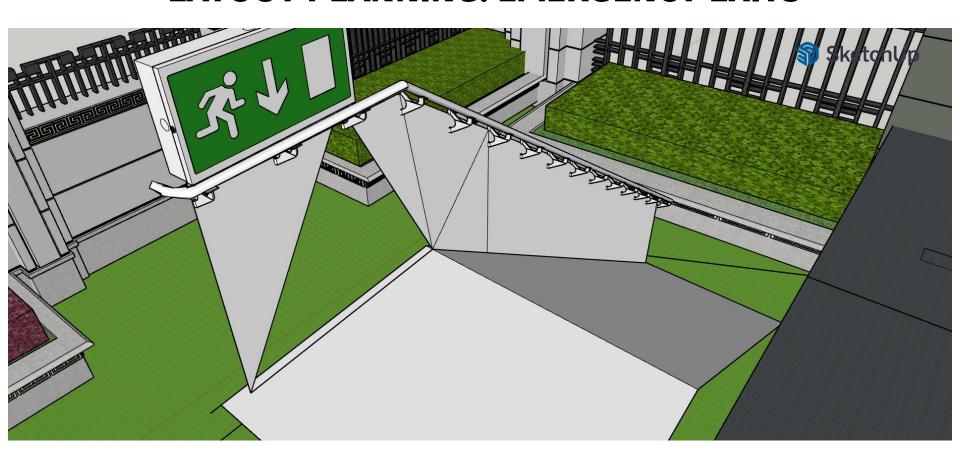


LAYOUT PLANNING: DOORS AND WINDOWS





LAYOUT PLANNING: EMERGENCY EXITS



LAYOUT PLANNING: EASY ACCESS



INTERIOR PLANNING

01

The floors are so designed that they are free from obstructions, are slip resistance and even.

Unti

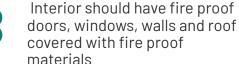
02

Openings in floors are securely fenced or covered

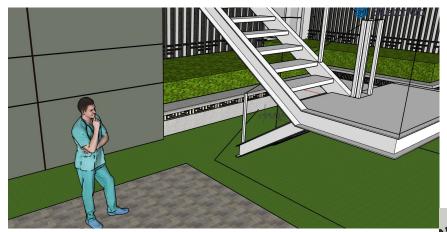
03

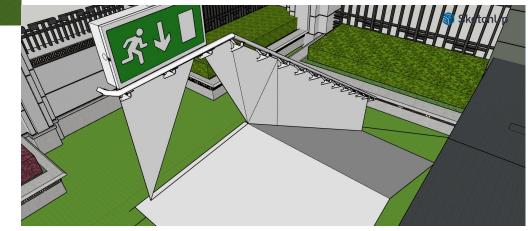
Staircase, ramps should be provided with substantial handrails and other suitable support to prevent slipping, where ever necessary

04



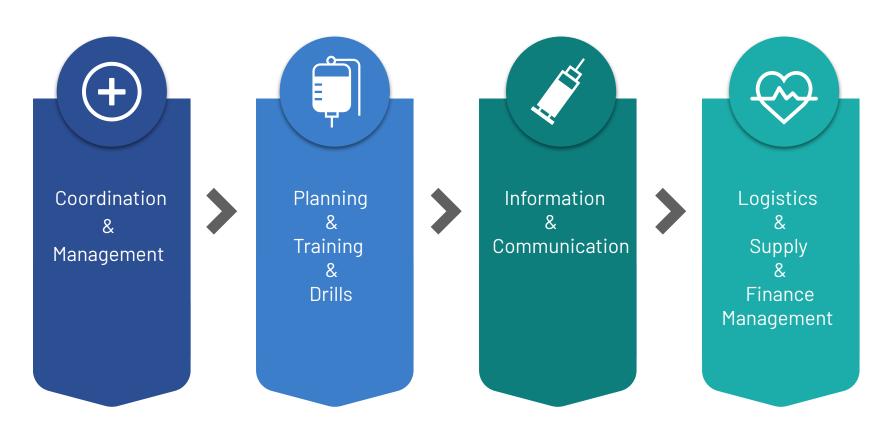
INTERIOR PLANNING: STAIRS AND OPENINGS





MODEL PRESENTATION

INITIATIVES NEEDS TO BE TAKEN BY THE PEOPLE



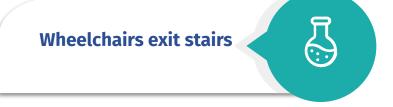
FEATURES OF THE MODEL





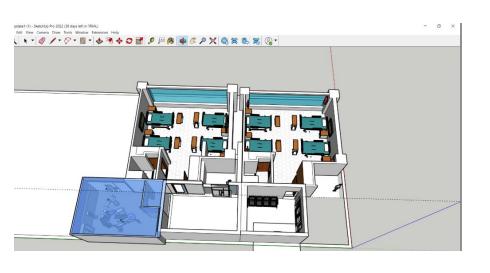


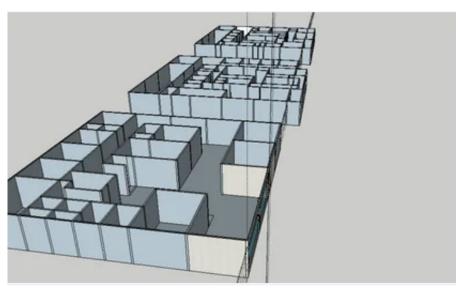






WEEK WISE PROGRESS





THANK YOU

