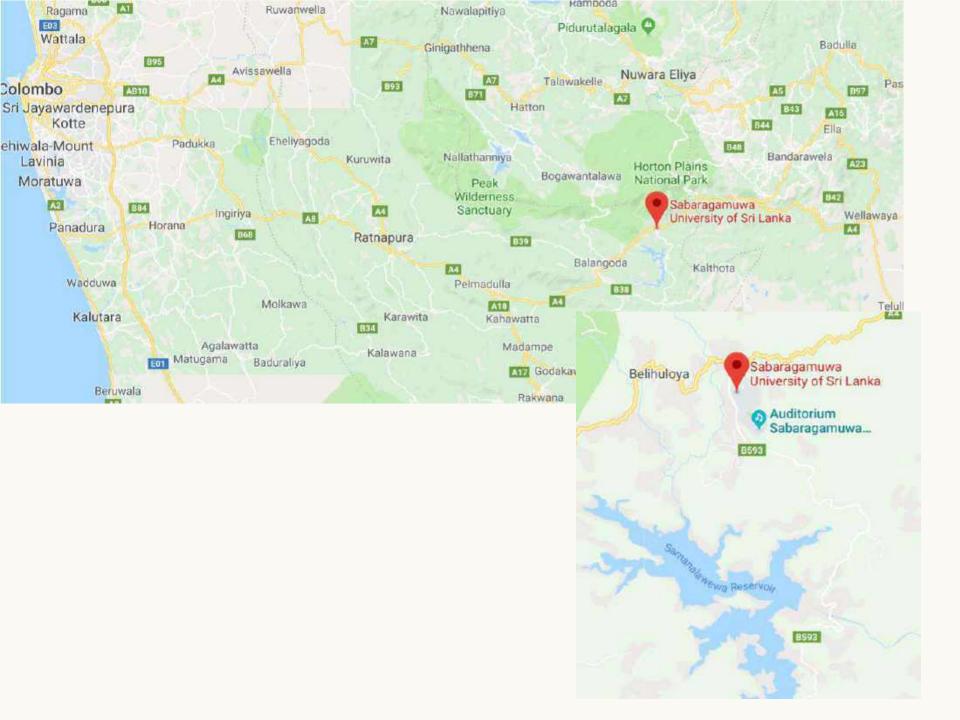


Overview – Proposed Building for Faculty of Technology, SUSL: Status and Future







Faculty of Technology

Faculty of Technology is the seventh faculty of the Sabaragamuwa
University of Sri Lanka





















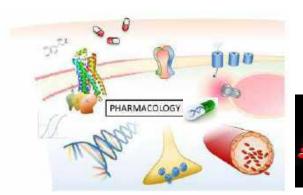


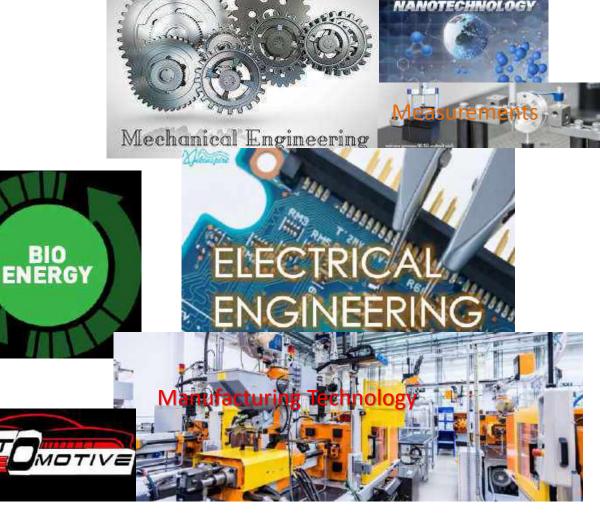
Faculty of Technology

Two academic departments

- Engineering Technology
- ☐ Bio-systems Technology



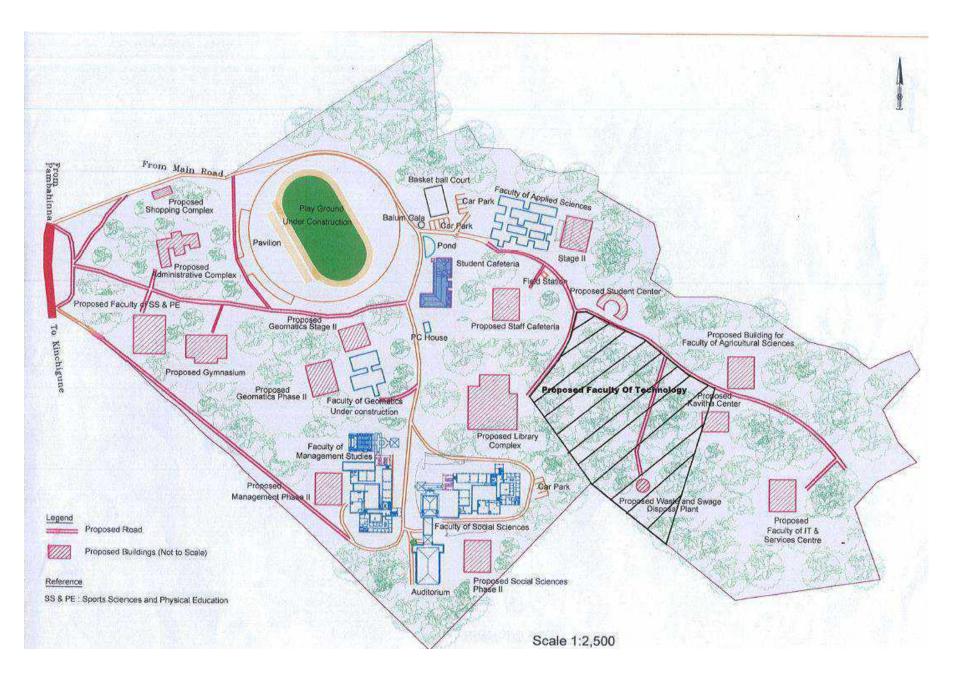


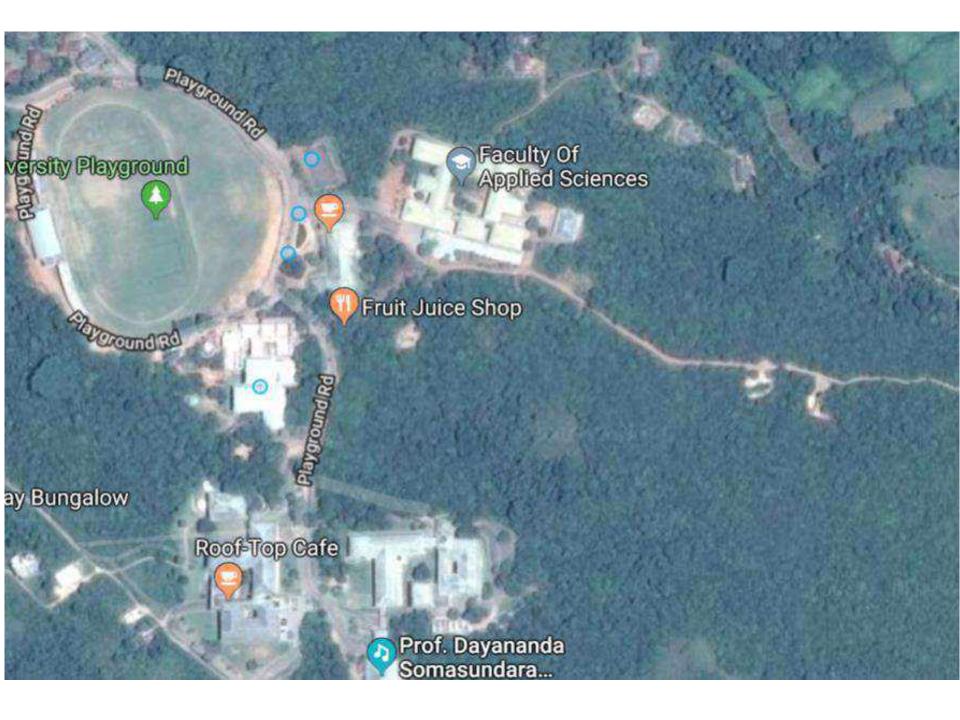




UNDERGRADUATE HANDBOOK New building

1. Location





New Technology Faculty Development Project in University of Sabaragamuwa Brief Site Inspection Report

(23rd March 2017)

The proposed development land consists of 2 plots (given in the site survey plan). The land is bounded on the northern side by the lot D, F, E, H, I, J. Eastern boundary is consist with lot No 51, 75,572,299,360,304,323. The southern boundary adjoins with lot No 360,303,323,322,321 and 320. The western boundary is adjacent to Lot 322,321,320 and lot A, D F, and E.









New building

2. Specifications

Spaces	Seating Capacity	Floor Area in Sq. F	Number of Rooms	Total area Sq.F
Class rooms (Type 1)	100	2,000	4	8000
Class rooms (Type 2)	40	1,000	6	6000
Mechanical Lab (with workshop)	40	4,000	1	4000
Electrical Lab (with workshop)	25	4,000	1	4000
Automobile Lab (with workshop)	25	4,000	1	4000
Biotechnology Lab	40	2,000	1	. 2000
Pharmacology Lab	40	2,000	1	. 2000
Bioenergy Lab	40	2,000	1	. 2000
Pharmaceutical	40	2,000	1	. 2000
Microbiology Lab	40	2,000	1	. 2000
Workshop	1	1,200	1	. 1200
Departments (with storage room)	6	1200	2	2400
Dean office	8	1000	1	1000
Board room		1200	1	1200
AR room		550	1	. 550
Staff rooms	1	. 120	30	3600
Computer admin office (with seating area for instruct)		400	1	400
Reading room	50	1,200	1	. 1200
Student common room	30	500	1	. 500
Exam halls	100	7000	2	14000
Generator house		1,000	1	. 1000
Entrance Lobby with counter/ security point/ Toilet		1200	1	1200
Security office	2	100	1	100
Other (25%)				16088
TOTAL AREA				80438

Indicative requirements for Buildings (Technology Faculty)- Phase 2 (2019/Dec - 2021 March)

Spaces	Seating Capacity	Floor Area in Sq. F	Number of Rooms 🕆	Total area
Class rooms (Type 1)	100	2000	4	8000
Class rooms (Type 2)	40	1000	4	4000
Computer laboratory	100	3000	1	3000
Chemistry lab (100 students)	100	3400	1	3400
Physics lab	100	3120	1	3120
Biology lab	100	4650	1	4650
Staff rooms	1	120	24	2880
Staff rooms with attached washrooms	1	160	10	1600
Reading room	50	1200	1	1200
Auditorium	200	4500	1	4500
Staff common/dining room	650	650	1	650
UI Colleberation center	25	920	1	920
Conference and Journal office	1	400	1	400
Library	50	3500	1	3500
Cafeteria	50	3000	1	3000
Other (25%)				11205
TOTAL AREA				56025

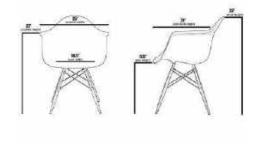
	Seating Capacity	Floor Area in Sq. F	Number of Rooms	Total area Sq.F
Nano technology research center	25	2,500	1	2500
Robotics	25	2,500	1	2500
Measurement	50	2,500	1	2500
Agro technology	25	2,500	1	2500
Drug synthesis	25	2,500	1	2500
Sustainable energy	25	2,500	6	15000
Class rooms (new)	25	1,200	6	7200
Staff rooms	1	120	10	1200
Reading room (new)	50	1,600	1	1600
R& D center		6,000	1	6000
Other (40%)				15000
TOTAL AREA				58500

Lecture rooms with tablet arm chair: 16 SF/Station

20 GSF/student



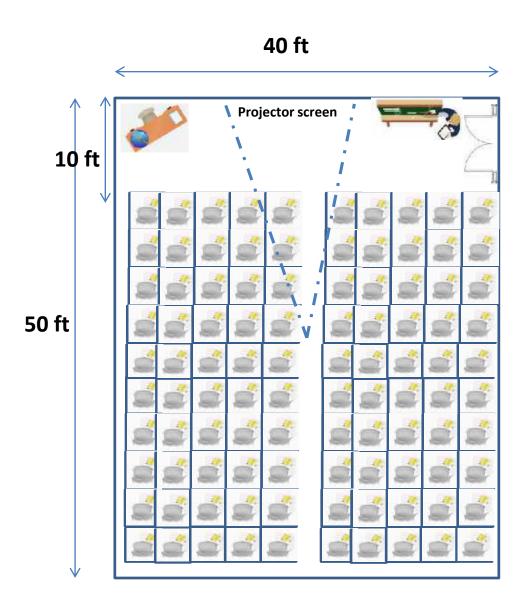


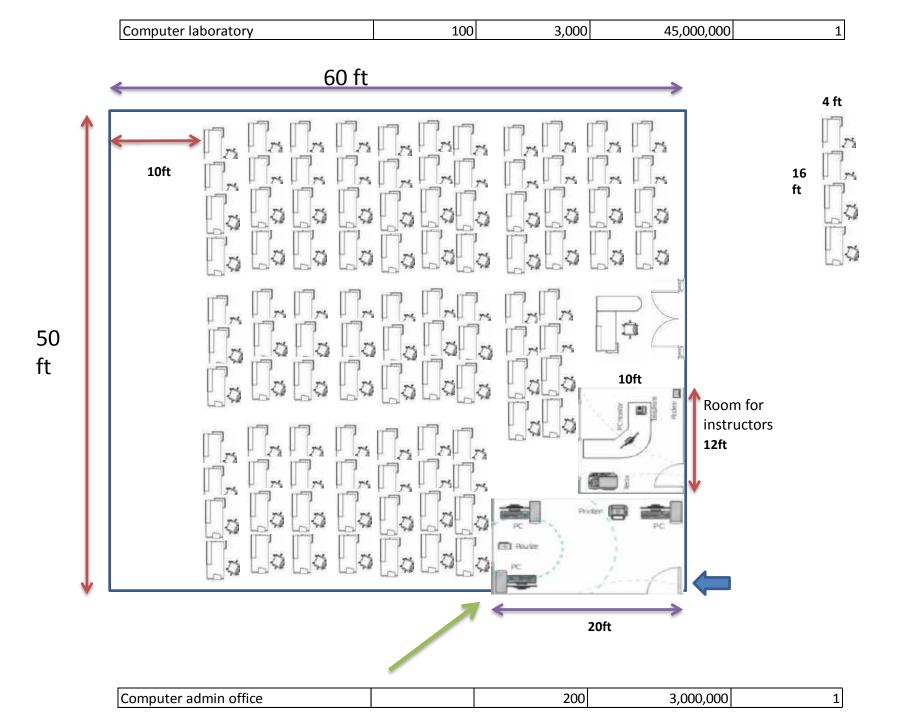


16 SF/station considering XY space (with out XY space 9 ASF/student)

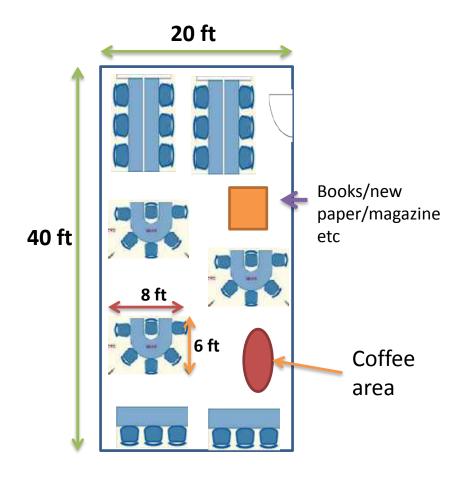


Drawing: 1" = 10 ft



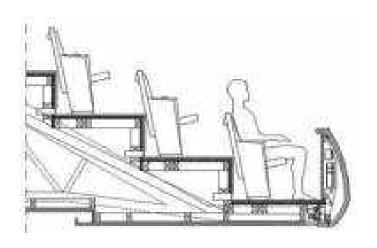






Standard:

Auditorium rooms typically require 10-15 ASF/student And require double height space to accommodate tiered seating.



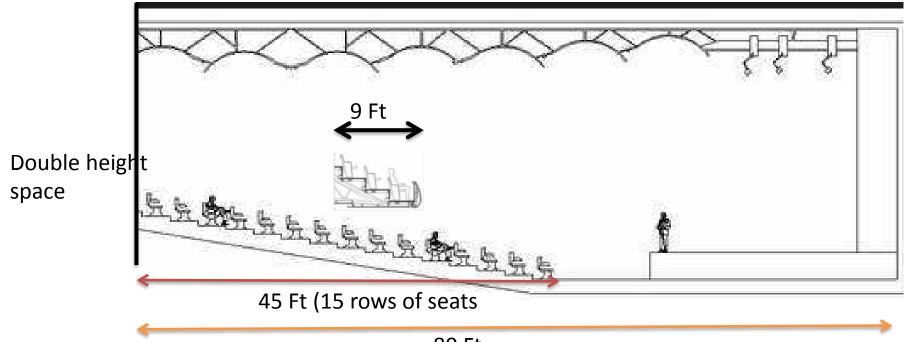
9 Ft



Auditorium 200 5,000 75,000,000 1

10 ASF/student

GSF:4000 SF



80 Ft

17.5 Ft 17.5 Ft 5 Ft

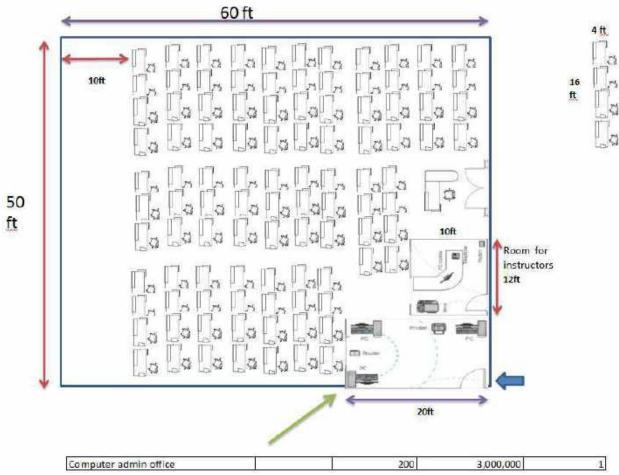
50 Ft

Width of 50 ft (14 seats)

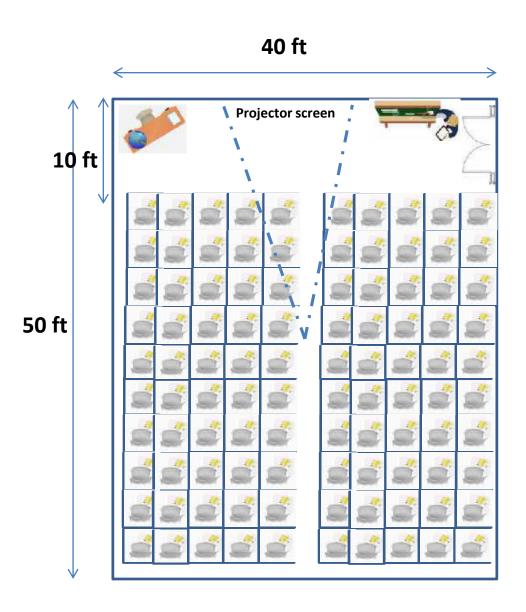


 Computer admin office
 200
 3,000,000
 1

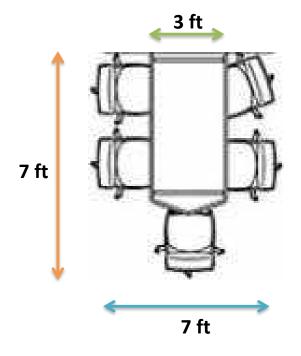


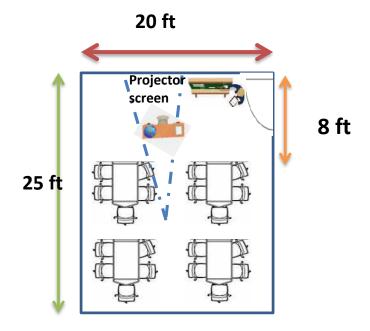


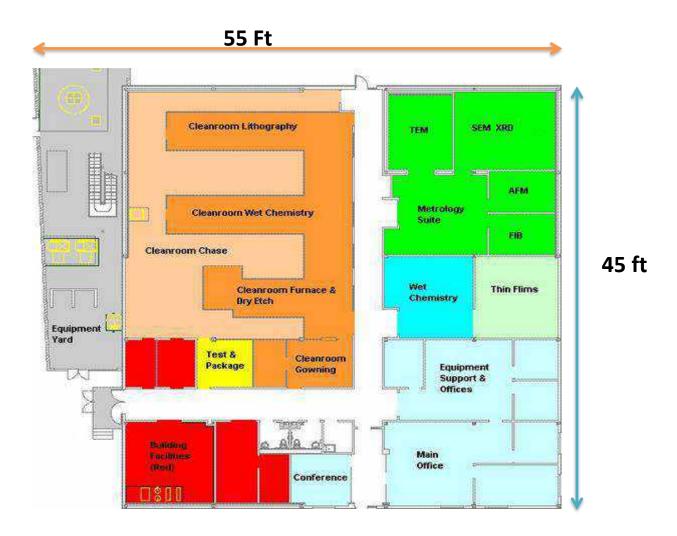
 Class rooms
 100
 2,000
 30,000,000
 4

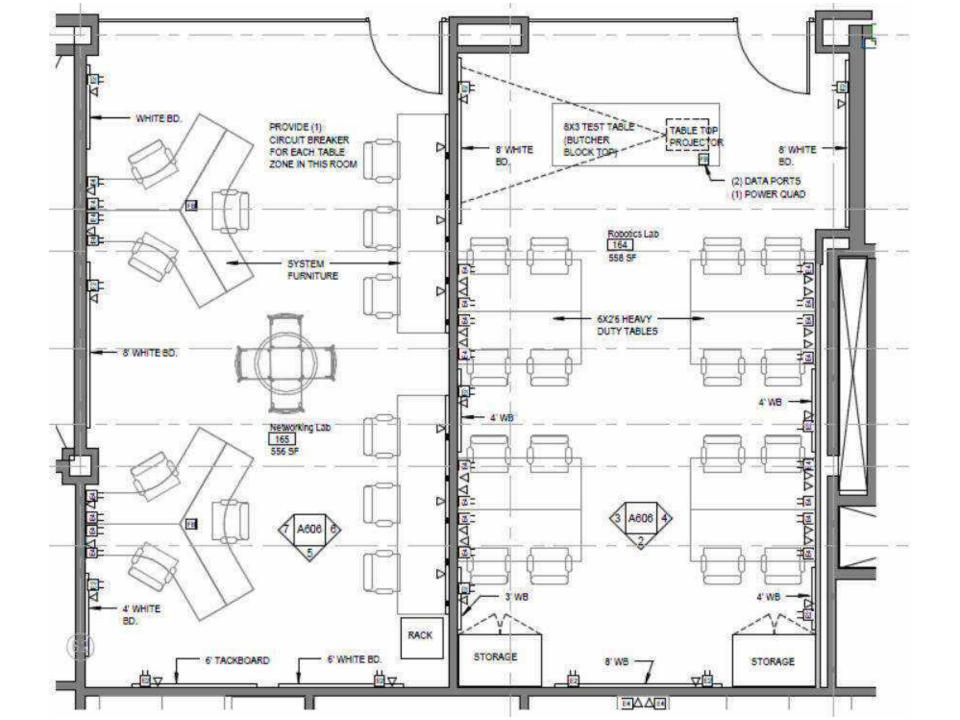


Class rooms	25	500	7,500,000	6	MSc,











Building complex for the Faculty of Technology, SUSL

Employer's requirement template - Laboratories

Space category	Science Laboratory – Chemistry laboratory
Туре	Wet Lab
Science on Display*	Yes

Room Ref.:		

Capacity	No. of
Students:100	units
Staff :5 Other : 3	Space norm
	2.7 m ² /student













Teaching Laboratories

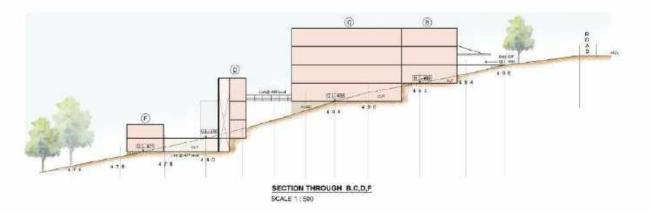


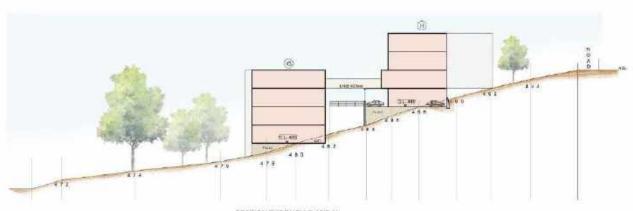


BUILDING A - ADMINIS	STRATIVE BLOCK (G + 2)
	Dean's room with wash room
Deans office	and admin staff
	Board Room + Small lobby &
Board Room	pantry
Departments with	
storage	6 persons in each department
AR Room	
Computer Admin	server with confidential
Center	information
	Area to be divided into 30
Ad:- 8\-"D	cubicles / work station
Academic Staff Room	
Entrance	lobby , counter & security point
Toilets (Staff)	
closet	
SUB TOTAL	
ADD 25% CIRCULATIO	N
TOTAL AREA	
BUILDING B (G + 2) & (C (G+3) ACADEMIC BLOCK
	with desk & chair, straight)
TYPE 1 Class Room	layout
TIPE ICIASS NOOIII	with desk & chair , changeable
T/DE 2 Cl D	
TYPE 2 Class Room	layout
Reading Room	040 1:1
	24 Cubicles , could be in
Academic Staff Rooms	different levels
Common Staff Room	
	Could be distributed among
Staff toilets	different levels
	Could be in 2 different levels at
Student Common Room	centre
Student Toilets	Could be in 2 levels at centre
SUB TOTAL	
ADD 25% CIRCULATIO	N
TOTAL AREA	
BUILDING D - LIBRARY	/ & OTHER COMMON SPACES
UI collaboration centre	May share a common lobby at
Conference & Journal	Ground floor
office	Ground Hoor
Staff recreation	At Ground Floor
	Double height space with a 70%
Library	Mezzanine level
LIDIAIN :	
Library	
SUB TOTAL ADD 25% CIRCULATIO	N

BUILDING D - LIBDADY	& OTHER COMMON SPACES	(G+2)
Ul collaboration centre		(0+2)
Conference & Journal	May share a common lobby at	
office	Ground floor	
Staff recreation	At Ground Floor	
	Double height space with a 70%	
Library	Mezzanine level	
SUB TOTAL		
ADD 25% CIRCULATION		
TOTAL AREA		
	IUM (ONE TIEDED I EUEL DO	UDLE UEICUT)
	IUM (ONE TIERED LEVEL , DO	
Auditorium	300 seats & Stage	1.0m2 per person
SUB TOTAL	Lobby & Toilets	
ADD 25% CIRCULATION		
TOTAL AREA		
TOTAL HALM		
BUILDING F - CAFERTA	RIA (G+ 1) 1" FLOOR PART	LY TERRACE
	seating , kitchen& stores ,	
	serving areas but excluding	
Cafertaria	open terrace seating.	1.5 m² per persons
SUB TOTAL	-	
ADD 25% CICULATION		
TOTAL AREA		
	ORY BLOCK (G+3) Ground fl	oor &1" Floor
Mechanical Lab	excluding workshop	
Automobile Lab		
	excluding workshop	
Electrical Lab	excluding workshop with workshop	
Electrical Lab Bio - energy Lab	with workshop	F
Electrical Lab Bio - energy Lab Bio - Technology Lab	with workshop requires green house on	F
Electrical Lab Bio - energy Lab Bio - Technology Lab Pharmacology Lab	with workshop	F
Electrical Lab Bio - energy Lab Bio - Technology Lab Pharmacology Lab Pharmaceutical Lab	with workshop requires green house on	Fe
Electrical Lab Bio - energy Lab Bio - Technology Lab Pharmacology Lab Pharmaceutical Lab Microbiology Lab	with workshop requires green house on	Fe
Electrical Lab Bio - energy Lab Bio - Technology Lab Pharmacology Lab Pharmaceutical Lab Microbiology Lab SUB TOTAL	with workshop requires green house on open to sky terrace	Fe
Electrical Lab Bio - energy Lab Bio - Technology Lab Pharmacology Lab Pharmaceutical Lab Microbiology Lab SUB TOTAL ADD 25% CIRCULATION	with workshop requires green house on open to sky terrace	F &
Electrical Lab Bio - energy Lab Bio - Technology Lab Pharmacology Lab Pharmaceutical Lab Microbiology Lab SUB TOTAL	with workshop requires green house on open to sky terrace	
Electrical Lab Bio - energy Lab Bio - Technology Lab Pharmacology Lab Pharmaceutical Lab Microbiology Lab SUB TOTAL ADD 25% CIRCULATION	with workshop requires green house on open to sky terrace	Parking 1f G+3
Electrical Lab Bio - energy Lab Bio - Technology Lab Pharmacology Lab Pharmaceutical Lab Microbiology Lab SUB TOTAL ADD 25% CIRCULATION TOTAL AREA BUILDING H-MIXED USI	with workshop requires green house on open to sky terrace	Parking)(G+3
Electrical Lab Bio - energy Lab Bio - Technology Lab Pharmacology Lab Pharmaceutical Lab Microbiology Lab SUB TOTAL ADD 25% CIRCULATION	with workshop requires green house on open to sky terrace	Parking)(G+3
Electrical Lab Bio - energy Lab Bio - Technology Lab Pharmacology Lab Pharmaceutical Lab Microbiology Lab SUB TOTAL ADD 25% CIRCULATION TOTAL AREA BUILDING H-MIXED USI Parking & Minor Staff Toilets	with workshop requires green house on open to sky terrace Laboratories , Exam Hall & At Ground floor Roading & one parking ine on one side	
Electrical Lab Bio - energy Lab Bio - Technology Lab Pharmacology Lab Pharmaceutical Lab Microbiology Lab SUB TOTAL ADD 25% CIRCULATION TOTAL AREA BUILDING H-MIXED USI Parking & Minor Staff Toilets Exam Hall	with workshop requires green house on open to sky terrace Laboratories , Exam Hall & At Ground floor Roading & one parking ine on one side Top Most floor (3rd Floor)	. Please refer
Electrical Lab Bio - energy Lab Bio - Technology Lab Pharmacology Lab Pharmaceutical Lab Microbiology Lab SUB TOTAL ADD 25% CIRCULATION TOTAL AREA BUILDING H-MIXED USI Parking & Minor Staff Toilets Exam Hall Computer Lab	with workshop requires green house on open to sky terrace Laboratories , Exam Hall & At Ground floor Roading & one parking ine on one side	
Electrical Lab Bio - energy Lab Bio - Technology Lab Pharmacology Lab Pharmaceutical Lab Microbiology Lab SUB TOTAL ADD 25% CIRCULATION TOTAL AREA BUILDING H-MIXED USI Parking & Minor Staff Toilets Exam Hall Computer Lab Chemistry Lab	requires green house on open to sky terrace Laboratories , Exam Hall & At Ground floor Roading & one parking ine on one side Top Most floor (3 rd Floor) Can Share - 2nd Floor	. Please refer
Electrical Lab Bio - energy Lab Bio - Technology Lab Pharmacology Lab Pharmaceutical Lab Microbiology Lab SUB TOTAL ADD 25% CIRCULATION TOTAL AREA BUILDING H-MIXED USI Parking & Minor Staff Toilets Exam Hall Computer Lab Chemistry Lab Biology Lab	with workshop requires green house on open to sky terrace Laboratories , Exam Hall & At Ground floor Roading & one parking ine on one side Top Most floor (3rd Floor)	. Please refer
Electrical Lab Bio - energy Lab Bio - Technology Lab Pharmacology Lab Pharmaceutical Lab Microbiology Lab SUB TOTAL ADD 25% CIRCULATION TOTAL AREA BUILDING H-MIXED USI Parking & Minor Staff Toilets Exam Hall Computer Lab Chemistry Lab Biology Lab Physics Lab SUB TOTAL	with workshop requires green house on open to sky terrace Laboratories , Exam Hall & At Ground floor Roading & one parking ine on one side Top Most floor (3 rd Floor) Can Share - 2nd Floor Can Share -1st Floor	. Please refer
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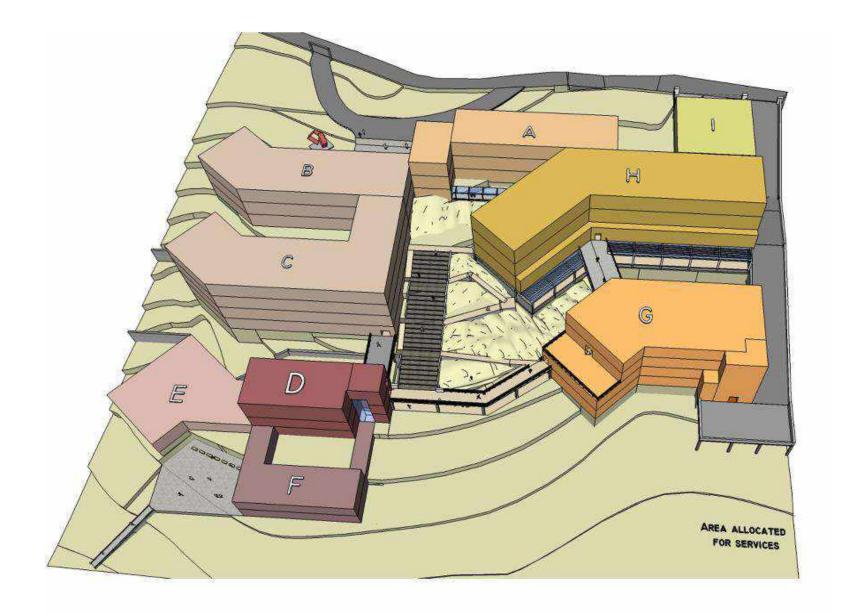






SECTION THROUGH G AND H SCALE 1 (50)

This provide the guidance with regard to the scale and volume of buildings -Roof-escapes and the Architectural design is at the discretion of the designer.



A - Administration block

B & C - Academic block

D- Library and other common spaces

E- Auditorium

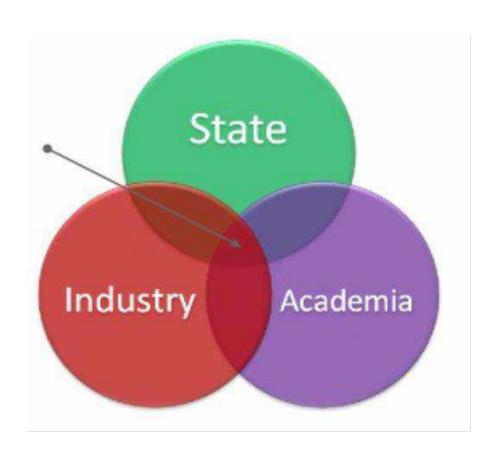
F- Cafeteria

G- Engineering laboratories

H - Mixed use -parking, science laboratories & exam hall

I - Workshops

Searching for new ideas is an endless process.



Building the ship while sailing









Sabaragamuwa University of Sri Lanka

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Tel: 0704565000