

INSTITUTE OF FINE ARTS

A THESIS

Submitted in partial fulfillment of the requirements for the award of
Bachelor of Architecture degree

By

SUDERVEL D

(39210091)



**DEPARTMENT OF ARCHITECTURE
SCHOOL OF BUILDING AND ENVIRONMENT**

SATHYABAMA

**INSTITUTE OF SCIENCE AND TECHNOLOGY (DEEMED TO BE UNIVERSITY)
Accredited with Grade "A++" by NAAC | 12B Status by UGC | Approved by AICTE
JEPPIAAR NAGAR, RAJIV GANDHI SALAI, CHENNAI - 600 119**

MAY - 2024



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

Accredited A++ Grade by NAAC | 12B Status by UGC | Approved by AICTE
www.sathyabama.ac.in

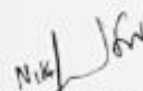
DEPARTMENT OF ARCHITECTURE

BONAFIDE CERTIFICATE

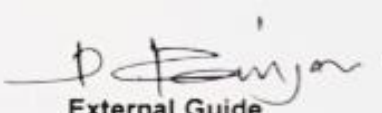
This is to certify that Thesis Report is the bonafide work of **SUDERVEL D (39210091)**, who carried out the Thesis entitled "**INSTITUTE OF FINE ARTS**" under our supervision from December 2023 to May 2024.


Internal Guide

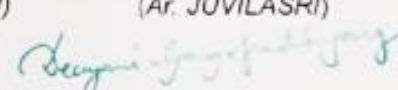
(Ar. MOHANA GOPIRAJ)


Internal Review Member

(Ar. JUVILASRI)


External Guide

(Ar. RANJAN DANIEL)

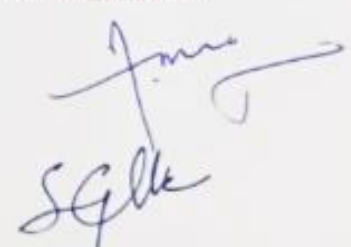


Dean and Head of the Department

Dr. DEVYANI GANGOPADHYAY

Submitted for Viva voce Examination held on


Internal Examiner


External Examiner

DECLARATION

I, **SUDERVEL D** hereby declare that the Project Report entitled “**INSTITUTE OF FINE ARTS**” done by me under the guidance of **AR. MOHANA GOPIRAJ**(Internal) and **AR. RANJAN DANIEL** (External) is submitted in partial fulfillment of the requirements for the award of Bachelor of Architecture degree at Sathyabama Institute of Science and Technology.

DATE: 16.05.2024

PLACE: Chennai

A handwritten signature in blue ink, appearing to read 'D Sudervel', is shown within a light blue rectangular box.

SIGNATURE OF THE CANDIDATE

ACKNOWLEDGEMENT

I am pleased to acknowledge my sincere thanks to Board of Management of **SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY** for their kind encouragement in doing this project and for completing it successfully. I am grateful to them.

I convey my thanks to **Dr. Devyani Gangopadhyay**, Dean and Head of the Department, School of Building and Environment, our Design Chair **Ar.Sarath C Kanth**, thesis coordinator **Ar.Mohana Gopiraj** for providing me necessary support and details at the right time during the progressive reviews.

I would like to express my sincere and deep sense of gratitude to my Internal Guide **Ar. Mohana Gopiraj**, Internal review member **Ar. JUVILASRI** and External Guide **Ar. RANJAN DANIEL** for their valuable guidance, suggestions and constant encouragement paved way for the successful completion of my Thesis work.

I wish to express my thanks to all Teaching and Non-teaching staff members of the Department of Architecture who were helpful in many ways for the completion of the project.

SUDERVEL D

THESIS SYNOPSIS

This project consists of spaces designated to give people knowledge by doing and acquiring skills. An innovative educational environment that supports scholars, experimenters, and explorers by utilizing an Indian design curriculum. The design of fine arts institution encourages students to bring in their own tales to Mold their particular routes in order to become designers with strong conceptual and collaborative talents.

TABLE OF CONTENTS

CHAPTER NO.	TITLE	PAGE NO.
	LIST OF FIGURES	
	LIST OF TABLES	
	LIST OF PLATES	
	CHAPTER 1-INTRODUCTION	
1.1	INTRODUCTION TO FINE ARTS	1
1.2	NEED OF THE PROJECT	2
1.3	AIM	3
1.4	OBJECTIVE	3
1.5	METHODOLOGY	3
	CHAPTER 2-ABOUT FINE ARTS	
2.1	STUDY ABOUT FINE ARTS INSTITUTE	4
2.2	PROGRAM AND COURSE IN TAMIL NADU	9
	CHAPTER 3 -STUDIES AND DATA COLLECTION	
3.1	KAVIN KALAI KALLURI, CHENNAI	10
3.2	JAMIA MILLA ISLAMIA, DELHI	14
3.3	CHITRA KALA PARISHATH, BANGALORE	19
3.4	NATIONAL INSTITUTE OF DESIGN, BANGALORE	20
	CHAPTER 4-SITE AND DESIGN	
4.1	SITE SELECTION	30
4.2	LOCAL NORMS AND CMDA LAW	30
4.3	SITE JUSTIFICATION	32
4.4	SITE ANALYSIS	33
4.5	SWOT ANALYSIS	36
4.6	DESIGN DEVELOPMENT	36
4.7	SKETCHES AND VISUALIZATION	37
5	REFERENCE	
5.1	STANDARDS	
	LIST OF FIGURES	

Figure 1: institute space mind map	2
Figure 2: pigment making	4
Figure 3: pigments	4
Figure 4 Display room	5
Figure 5: kiln.....	8
Figure 6: pottery making	8
Figure 7 kavin kalai kalluri site plan	10
Figure 8: red building plan	11
Figure 9: views of red building	11
Figure 10: sculpture block plan	12
Figure 11: sculpture studio space.....	12
Figure 12: exhibition hall inside view	12
Figure 13: admin block kavin kalai kalluri	13
Figure 14: plan for textile ,ceramic, workshop, ceramic storage and cola kiln.	13
Figure 15: site plan for jamia mila islamia	15
Figure 16: BFA plan painitng studio	15
Figure 17: BFA classroom plan Jamia Mila Islamia	16
Figure 18.2.4: GF PLAN.....	16
Figure 19: GF plan.....	16
Figure 20	16
Figure 21: GF plan.....	16
Figure 22: sculpture block plan Jamia Mila Islama	17
Figure 23: printing press machine	17
Figure 24: printing press machine	17
Figure 25: graphlic design block	18
Figure 26: graphic design block.....	18
Figure 27: library at Jamia Mila Islamia	18
Figure 28.....	18
Figure 29: library at Jamia Mila Islamia	18
Figure 30: applied art department Jamia Mila Islamia	19
Figure 31: chitrakala parishath Bangalore site plan.....	20
Figure 32: NID Bangalore plan	21
Figure 33: NID Bangalore ground floor plan	22
Figure 34: NID Bangalore Basement plan.....	22
Figure 35: NID Bangalore first floor plan	23
Figure 36: NID Bangalore second floor plan	23
Figure 37: NID Bangalore central connecting space between blocks	24
Figure 38: land use map	30
Figure 39: site.....	33
Figure 40	34
Figure 41	34
Figure 42	34
Figure 43.....	35
Figure 44: Library view from entrance rough sketch	37
Figure 45: Dinning Hall	37
Figure 46: Landscape central view with solar charging station	38
Figure 47: painting studio classroom	38
Figure 48: Weaving studio	39

Figure 49: ceramic studio	39
Figure 50: Cafeteria inside view	40
Figure 51: Hostel block Exterior view	40

LIST OF TABLES

Table 1: METHODOLOGY	3
Table 2 equipment and space making.....	8
Table 3 program courses in Tamil Nadu for fine arts institute	9

LIST OF PLATES

plates 1	44
plates 2	45
plates 3	46
plates 4	47
plates 5	48
plates 6	49
plates 7	50
plates 8	51
plates 9	52
plates 10	53
plates 11	54
plates 12	55

CHAPTER 1

1.1 INTRODUCTION TO FINE ARTS

Fine arts institute is a trove of arts whose primary value is to provide knowledge to create aesthetical and beautiful elements. since fine arts is a process of learning and to create visual things. It can either be two dimensional(2D) or three dimensional(3D), fine arts is the composition of different forms of arts such as textile, sculpture making, ceramic, photography, visual communication, photography, film, architecture, etc.

Fine arts campus is an hub for creative expression and intellection of inovative ideas, where one can learn and explore the artistic talents and develop there skills in a supportive and inspiring environment.

The vision for this fine arts campus is to incorporate dynamic and inclusive space by creating an integrated life within education social entity of school and urban life that fosters

- Collaboration and cross disciplinary learning
- Exprementing with subject
- Critical thinking and skill building

Linking with local arts and community

The project encompasses academic spaces such as

- studio halls for painting, pottery, weaving, printmaking, sculpture and paper working.
- classrooms for art history, theory and critisism.
- digital labs for modelling and graphical designing.
- Exhibition spaces and gathering spaces with community and social spaces.
- Natural light and ventilation in classrooms and studio halls
- Accesible ramps, staircase and elevators for all areas.

Applied arts is the comprhensive of visual arts that incorporates visual communication, photography, fashion designing, graphic designing, painting and drawings etc.

Bachelor of fine arts is an undergraduate course degree which deals with the study of visual and performing arts. this course graduation is period of 3 to 4 years depending on the interest of subject, as the candidate has to choose the department based on their interest.

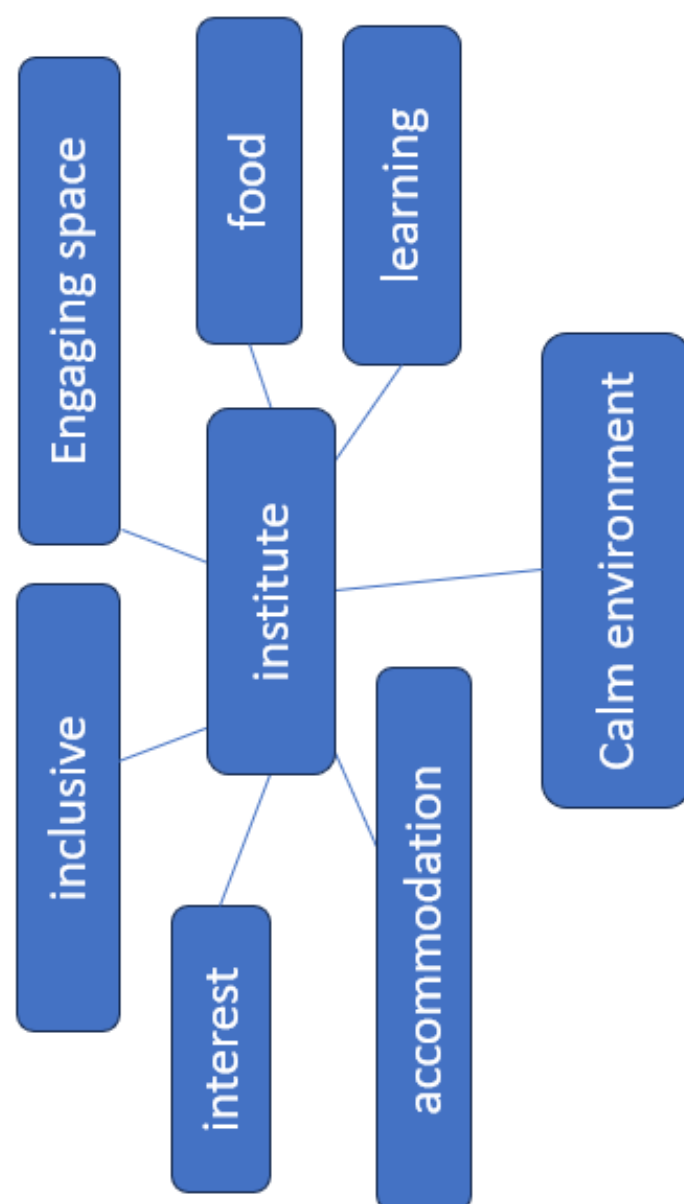


Figure 1: institute space mind map

1.2 NEED OF THE PROJECT

An innovative educational environment that supports scholars, experimenters, and explorers by utilizing an Indian design curriculum. The design institution encourages students to bring in their own tales to Mold their particular routes in order to become designers with strong conceptual and collaborative talents.

- learners community interest towards arts.
- openness to gaining the knowledge of arts
- interactive approach towards architecture.

1.3 AIM

Vision of this project is to create dynamic and adaptable spaces that inspires collaboration and creativity, which provides art facilities and equipment's for art exploration and foster a sense of community among students, faculty and local arts.

1.4 OBJECTIVES

- spatial planning building according to site condition
- comprehending the ideology of institute and convert it into built form.
- create an interactive campus which foster community of students and faculties
- incorporate sustainable principles pertain to warm and humid climate.
- create a sustainable approach by including local norms and by creating user-oriented structure.

1.5 METHODOLOGY

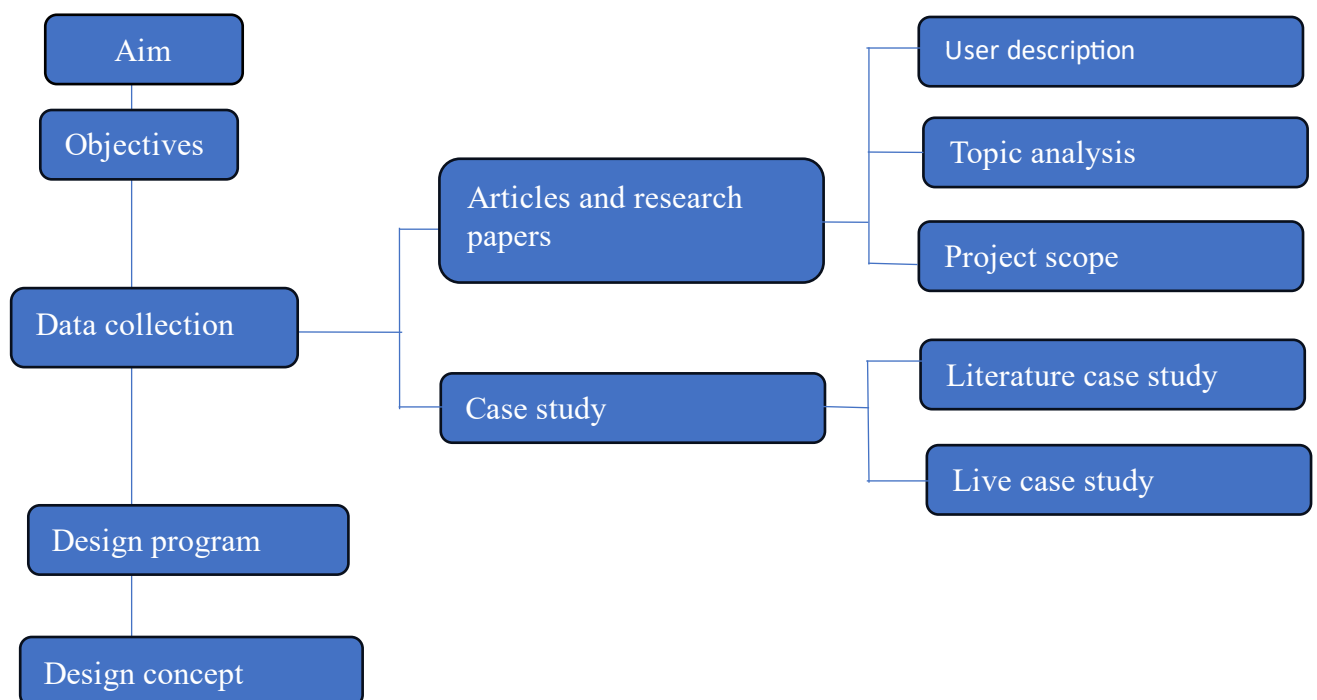


Table 1: METHODOLOGY

CHAPTER 2

2.1 STUDY ABOUT FINE ARTS INSTITUTE

Fine arts institute is an educational institute that focuses the study of virtual and applied arts either by practicing or by acquiring the knowledge of visualizing and interpreting the art works, in other terms fine art is the making and study of virtual art. it preaches students to prepare to attain the knowledge in field of applied arts.

PAINTING DEPARTMENT REQUIRED SPACES

- Office
- Material lab, pigment making
 - Sink
 - Storage cabinets
- Theory classroom
- Outdoor spaces mend with nature such as courtyards
- Watercolour and mixed media classroom
 - Storage cabinets
 - Washing sink
- Portrait classroom with easel
 - Storage cabinets



Figure 2: pigment making



Figure 3: pigments

Things to consider

- Reduction of dust as dust might accumulate on painting surface which may affect the paintings.
- Ambient natural lighting
- Humidity needs to be at control since painting can get form mould.
- Inhaling of pigments may cause health issue so ventilation need to manage to get rid of paint smells

DEPARTMENT OF TEXTILE

- Office
- Theory classroom with demonstration area(60sq.m)
- Studio space
- Sewing machine and ironing tables with mannequin
- Computer room
- Display area
- Handloom studio
- Material lab
- Storage room for materials
- Exhibition space
- Toilet
- Faculty room
- Hod room



Figure 4 Display room

Things to consider

- dust is formed inhaling of dust lead to health issue so air flow needs to be controlled.
- Handling of tools without proper storage area cause problems. proper storage space for tools and eye washing area (sink) needs to be provided

- Clay might get dried and might get soggy if it not properly stored so PROPER storage area is must.

PRINTMAKING/GRAPHIC ART

- Silkscreen classroom
 - Silkscreen drying rack(1320x1066)mm
 - UV screen exposure system(1524x1066)mm
 - Large Silkscreen washing sink
 - Hydro tech pressure washer
 - Paper cutter(27"x22")
- Lithography and Letterpress classroom
 - Lithography press(48"x24")(38"x19.8")
 - Lithography stone library
 - Printing press adjustable bed size
 - Platen press(12"x8")
 - Paper cutter machinery guillotine(25"x22")
 - Washing sink
 - Storage cabinets
- Woodcutting and etching classroom
 - Vented Acid booth ,safety storage(60"x24")
 - Etching press(52"x32")
 - Storage cabinets for book making supplies and wood cut inks and tools
 - Washing sink
 - Toilet
 - Faculty room
 - Hod room
- Computer room
 - Laser print(13"x24")
 - Epson printer
 - Litho light tables
 - Scanner
 - Systems

- Large drawing table
- Sheet making
- Drying rack
- Shade drying and sun drying

DEPARTMENT OF CERAMIIC

- Office
- BFA studio 1,2,3(900sq.ft)
- Kiln space with vent
- Glazing station
- Sun dry area
- Clay storage pit(3mx3M)
- Workshop area (100sq.m)
- Wedging desk
- Storage cabinet metal
- Display cabinet for finished projects
- Teacher's desk
- Sink with sediment taps
- Outdoor space to dry sand things
- Material lab (types, terminology and varieties)
- Pottery wheel
- Rolling pin and slat counter
- Storage lockers for students

Things to consider

- More dust is formed inhaling of dust lead to health issue.so wet working and dry working two different areas need to be provided.
- Handling of tools and splatter of mud to eyes and cause problems proper storage space for tools and eye washing area (sink) need to be provided
- Clay might get dried and might get soggy if it not properly stored so proPer storage area is must.



Figure 5: kiln



Figure 6: pottery making

Table 2 equipment and space making

MACHINE	SIZE	USE	SPACE FOR WORKING
Lathe machine	2.0 x 0.75	To make circular path	1m on front side
Milling machine	1.4 x 2.0	To make baring	1m on front side
Nibbling machine	1.8 x 0.8	Forming	1m on three sides
Hydraulic press	0.6 x 0.4	To press sheet	1m on one side
Bend saw	1.0 x 1.4	For cutting	>1m on three sides
Drilling machine	1.0 x 1.2	To make holes	1m on all sides
Spot welding	1.5 x 0.3	To weld	1m on front side
MACHINE	SIZE	USE	SPACE FOR WORKING
Circular Saw	1.0 x 1.8	To cut woods	>1m on all side
Bend Saw	0.6 x 1.0	For cutting	>1m on three side
Drilling Machine	0.8 x 1.4	For drill	1m on three side
Sender	1.0 x 1.0	For finishing	1m on front side
Wood Lathe	2.0 x 0.75	To make circular part	1m on front side
Buffing Machine	1.0 x 1.0	For cleaning	1m on three side

2.2 PROGRAM AND COURSES IN TAMIL NADU FOR FINE ARTS INSTITUTE.

Table 3 program courses in Tamil Nadu for fine arts institute

BACHELOR OF FINE ARTS(4YEARS)B.F.A DEGREE AND MASTER OF FINE ARTS(2YEARS)M.F.A DEGREE				
SI.NO	DEPARTMENT	course	course	For B.F.A course age limit is less than 26 and for M.F.A no age limit above 26.
1	Visual Communication Design	B.F.A	M.F.A	
2	Painting	B.F.A	M.F.A	
3	Sculpture	B.F.A	M.F.A	
4	Design In Ceramics	B.F.A	M.F.A	
5	Design In Textiles	B.F.A	M.F.A	
6	Print Making	B.F.A	M.F.A	

S

CHAPTER 3

3.1 KAVIN KALAI KALLURI

LOCATION: E.V.R. High Road, Periyamet, Chennai, Tamil Nadu 600003.

STYLE: Indo- Saracenic Architecture

Area:4acres.

Description:

It is one of oldest art institute in India this institute was established in 1850 by surgeon alexander hunter as a private school.in year 1852 government takeover it and renamed government school of industrial arts. It was later renamed as government school of arts and crafts before finally renamed as kavin kalai kalluri as present.

Site plan.

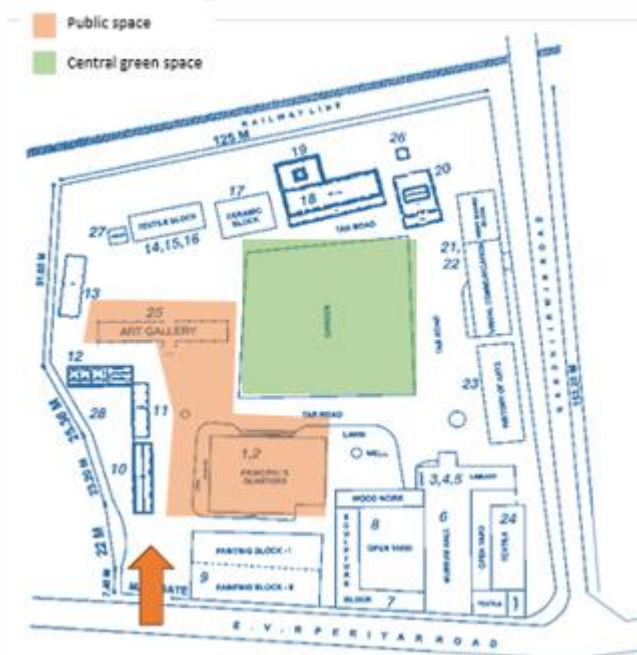


Figure 7 kavin kalai kalluri site plan

- Admin
- Multipurpose block
- Sculpture block
- Painting block
- Textile block
- History of arts block
- Visual communication block
- Print making block
- Ceramic block

Red building

- Consist of library, painting studio and museum, movable stage of 300mm height is used at studio to display subject.
- Floor height of classroom is 4.5m.
- Room 1 and room 2 area 224sq.m
- Room 3 and 4 area is 224sq.m
- Museum 378sq.m.

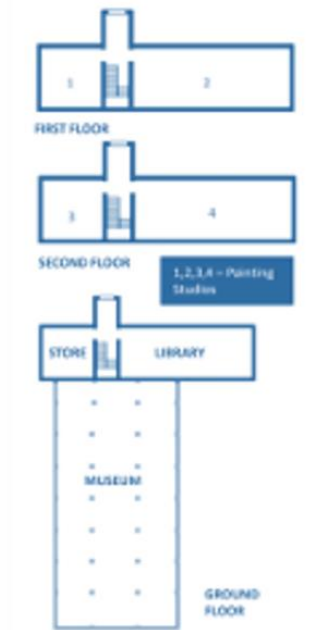


Figure 8: red building plan



Figure 9: views of red building

Sculpture block

- Single storey
- Sculpture studio-275sq.m
- Sculpture courtyard 1035sq.m



Figure 10: sculpture block plan



Figure 11: sculpture studio space

First year studio /exhibit hall

- Placed near to the site entrance
- Movable partitions are provided according to space requirement the wall can be adjusted.
- Cubicle at one corner act as staff room.
- Painting studio-885sq.m



Figure 12: exhibition hall inside view

Admin block

- Placed near entrance consist of principal room, staff room, waiting area, lobby, etc.
- 2 entrances for building
- Admin area-495sq.m



Figure 13: admin block kavin kalai kalluri

Ceramic block

- Two storey blocks
- Ground floor used as studio with benches and storage cupboards. First floor consists of studio for learning textile design. Adjacent to this block ceramic workshop with coal kiln are their ceramic store room is used for storing students work.



Figure 14: plan for textile ,ceramic, workshop, ceramic storage and cola kiln.

Open spaces:

- Addition of trees, pergolas, sculptures and artifacts in open area gives the feel of connectivity to place, these spaces also act as outdoor working area for students as students tend to sit in nature to carry on there work.

Characteristics:

Gothic and paladin style building.

Tarred roads connected to each building

Materials such as brick Wook, terracotta tiles where used.

Placement of sculptures and other artifacts at some places within campus brighten up the spaces and gives the feel of liveliness to it.

Inference:

The dedicated parking space need to be created, site is rectangle base and several individual blocks arranged around courtyard. classrooms are well ventilated and sufficient lighting since most of the blocks are single storey with courtyard at center.

3.2 JAMIA MILA ISLAMIA, FACULTY OF FINE ARTS

Description:

Jamia Milla Islamia was established in 1951. Foundation was laid by Abdul Kalam Azaad. it consist of following departments such as painting, sculpture, applied art, art education, graphic art, art history & appreciation.

Approach:



- Landmarks-Jamia School, Doctors Zakia Husain Memorial & Museum.
- Nearest Bus Stop- Jamia Milla Islamia, 300m
- Nearest Airport-Indira Gandhi International Airport (25kms)
- Nearest Railway Station -Nizamuddin Railway Station (16kms)
- approachable from maulana Mohammad Ali Jauhar Marg.

Site plan

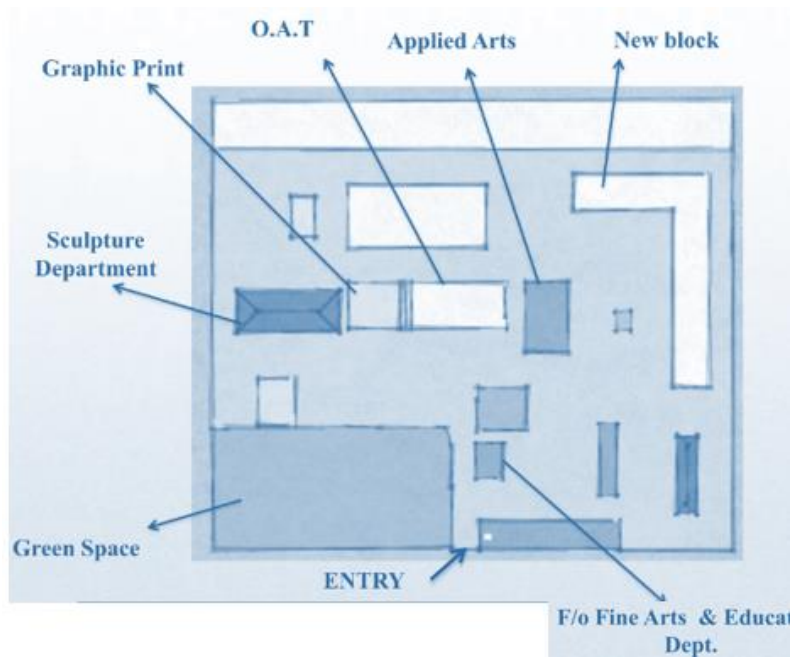


Figure 15: site plan for jamia mila islamia

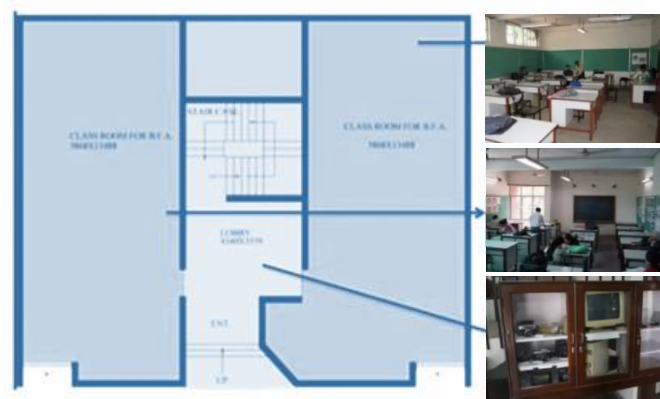


Figure 16: BFA plan painting studio

BFA painting 1st year

- Studio size 8mx5m.
- Capacity 20 students.
- Display boards attached to walls.
- Lockers for storage materials.
- Flooring P.C.C.
- Working table size 900mmx500mmx800mm.

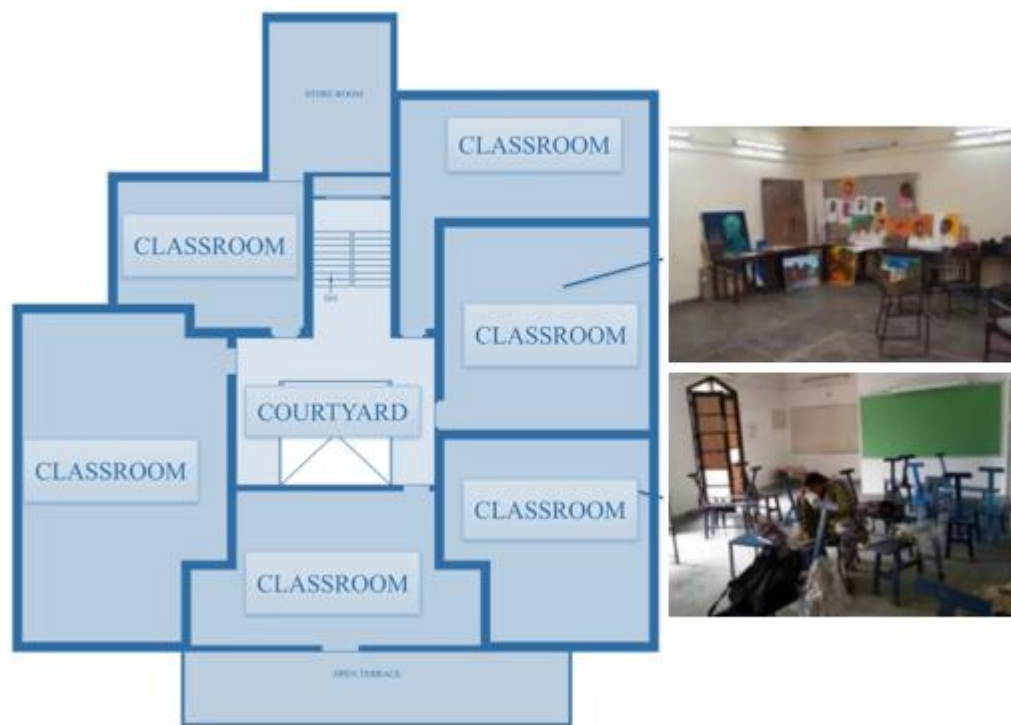


Figure 17: BFA classroom plan Jamia Mila Islamia

BFA, M.F.A painting 2nd year

- Studio size 10mx6m.
- Capacity 20 students.
- Display boards attached to walls.
- Works majorly on large canvas.
- Provision of drying canvas and storing.
- Lockers for storage materials.

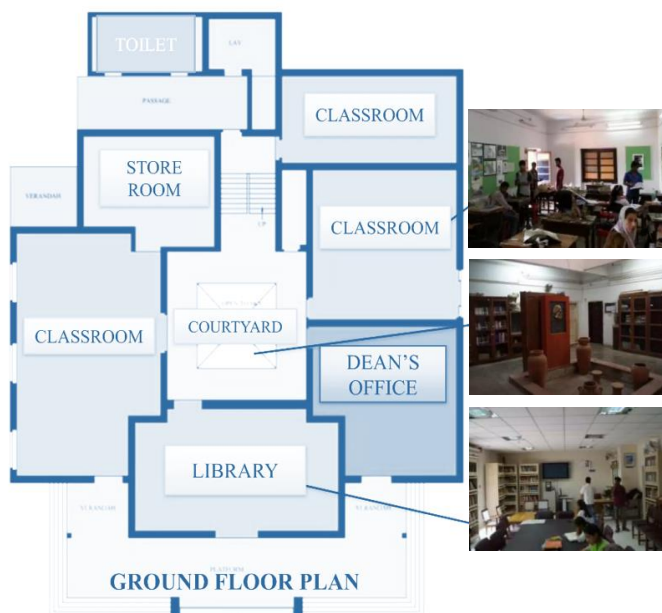


Figure 21: GF plan

Sculpture department.

- No of studio-3
- No of workshop-2
- Workshop-10mx10m
- Semi open area-20mx10m
- Area per student -10sq.m
- Sculpting 10mx6m per class

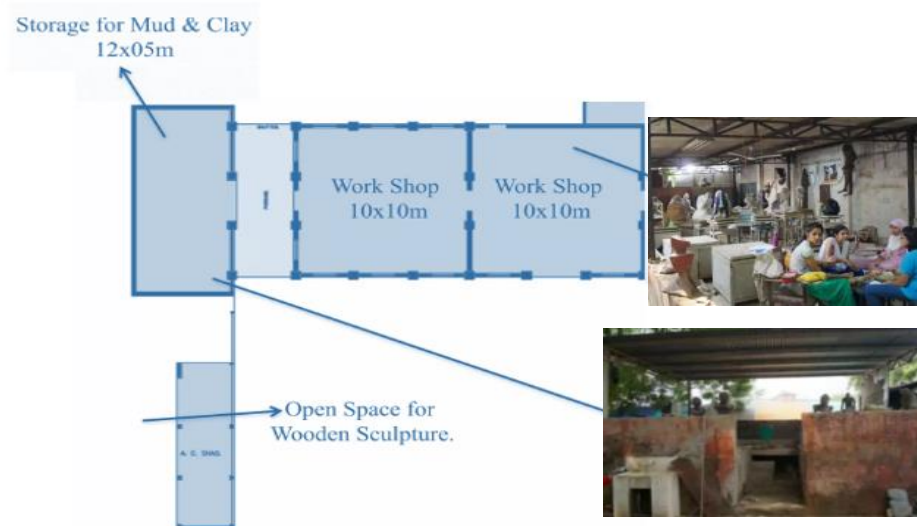


Figure 22: sculpture block plan Jamia Mila Islama



Figure 24: printing press machine

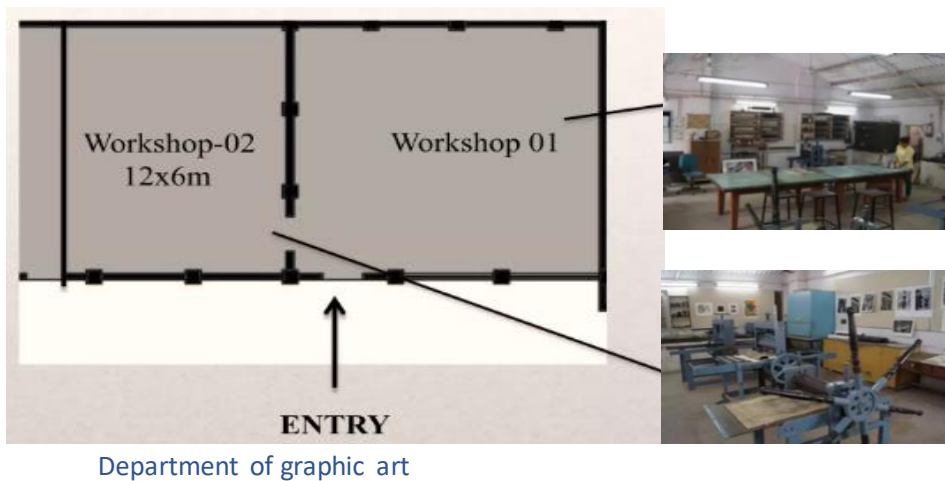


Figure 26: graphic design block

Library

- Seating capacity-25
- Flooring –vitrified tiles
- Roof-false ceiling
- Area-50sq.m
- Another door egress towards central courtyard



Figure 29: library at Jamia Mila Islamia

LAYOUT, ZONE PLANNING.

- site is well segregated into various zones with respect to the functions and activities.
- Circulation spaces are minimised to optimize efficiency in design

Landscape

- Sculpture in open spaces adds beauty to the space.
- Lot of green space provide calming atmosphere.



*Figure 30: applied art department Jamia
Mila Islamia*

3.3 chitrakala parishath Bangalore.

Location: Kumara Krupa road 2.5 Km from central bus station.

Architect: Jakaria and Thomas.

Sites: 13 acres

Topography: flat on left half and contoured on right half contour 10 m from N-S.

Bus Stop: Gandhi bhavan – 500m

Painting studio:

- The painting studio for the students is located on the right side of the contoured site of the college. The access to the painting block is through a stepped stone pathway.
- Painting studio in the second floor shas sloped roof with Mangalore tiles.
- Natural ventilation as well as artificial lighting is used.
- Terracotta flooring with wired brick wall is seen here.



Figure 31: chitrakala parishath Bangalore site plan

3.4 national institute of Design Bangalore.

ABOUT PROJECT

- Typology: institute
- Location: near pennya station.
- architect: Karan Grover associate.
- ESTABLISHE 31ST MARCH 2006.
- AREA:2 ACRES (2501SQ.M)



Figure 32: NID Bangalore plan

Figure 3.4.1: NID BANGALORE PLAN

Studio space:

- Which have 2 levels lower one for interactive purpose which consist of conversational area, Recreational SPACE ,projector and table tennis.
- upper level consist of individual work area with personal computers which are partitioned by panels.

Connectivity:

- The corridor spaces are well connected and directional. Different level of spaces were made interesting with ramps and steps.
- Vertical connecting spaces are painted with bright colors and has the view towards courtyard with pool.

Built form:

- The larger façade of the building face towards north which allows natural light with minimal heat gain.
- Informal atmosphere has been accomplished with open entrance space which consists of triangular cantilever roof and curvilinear ramp.
- 100mm RCC roof with slight slope towards south intending to receive maximum north light.
- Rainwater from roof channeled to the central pool.

LAYOUT,ZONE PLANNING.

- Site consist of single block which consists of OAT and waterbody.

- Building is circular oval shape with central round corridor. The blocks consist of various wings which serve as different uses or spaces assigned.
- It is a multi level building which raises from basement all along the circular corridor in sloppy manner.
- Forms are subtle curvilinear and are planned along east west axis.
- Building is split into individual blocks connected with circular path.
- The built form largely face along north with gain natural lighting by reducing heat transmission.
- workshop under ground get natural lighting via skylight.

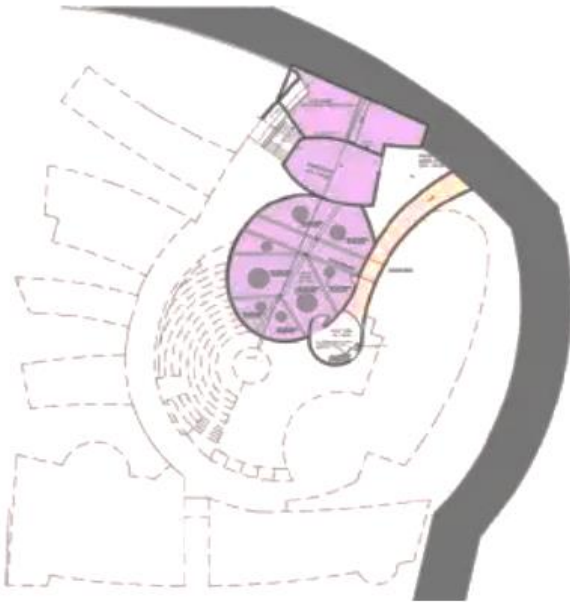


Figure 34: NID Bangalore Basement plan



Figure 33: NID Bangalore ground floor plan

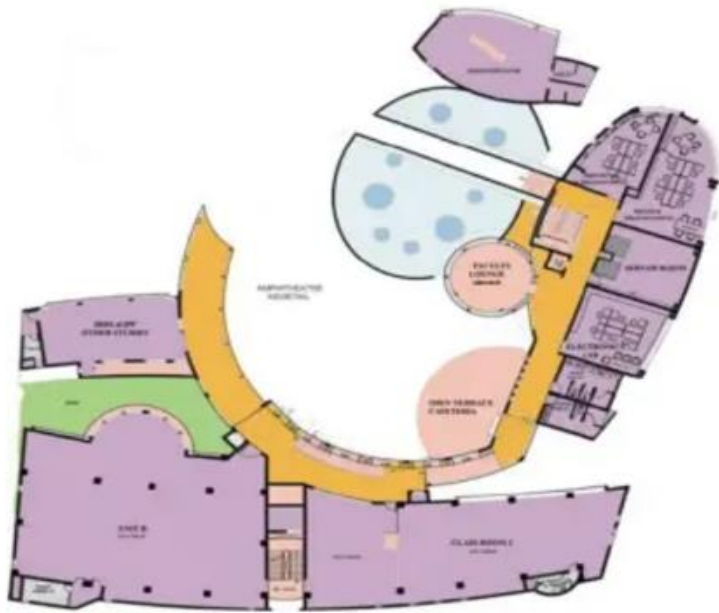


Figure 35: NID Bangalore first floor plan

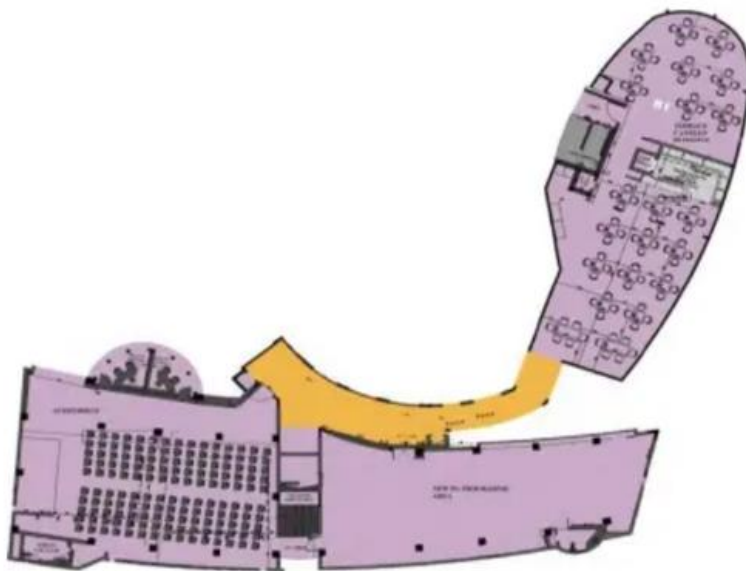


Figure 36: NID Bangalore second floor plan

The 4 modules will be accessed from the central forum .the defense related product design center is located underground like a bunker where landscape of skylights from above.



Figure 37: NID Bangalore central connecting space between blocks

The width of various academic blocks is kept such that there is sufficient penetration of natural daylight, between every block is a landscaped courtyard.

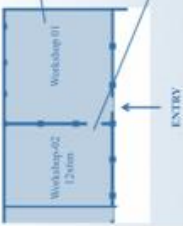
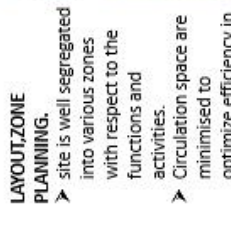
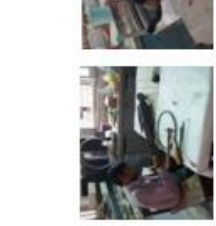
Parking:

- 2wheelers are parked on the side of the building ,the facilities provided are not adequate in case of future expansion.

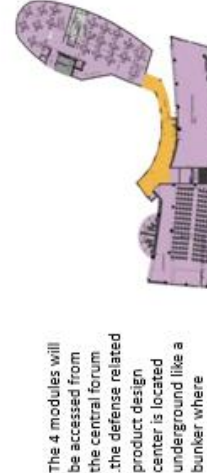
Characteristics:

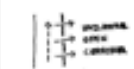
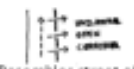
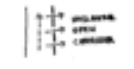
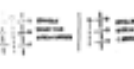
- Central green yard has small oat which has a capacity of 100seating.
- Circular connectivity among the individual blocks gives the feel of openness on both side because the presence of oat and green yard
- Central space bring diffused light and act as a gathering space.

 ABOUT PROJECT ➤ Typology: Institute ➤ Location: situated near park town, Chennai, ponnammalle high road. ➤ Architect: established by British in 1950 ➤ Coverage: 50% ➤ Site area: 4 acres ➤ Topography: slight slope ➤ Landmarks: park town, egmore railway station, st Andrews church. LAYOUT ➤ Site has a central garden with playground, while other buildings such as admin block, institution blocks, art gallery arranged surrounding central garden. CHARACTERISTICS ➤ Gothic and Palladian style building ➤ Tarred roads connected to each building ➤ Materials such as brick, wood, terracotta tiles where used. ➤ Placement of sculptures and other artifacts at some places within campus brighten up the spaces gives the feel of liveliness.	Courses and programs ➤ Painting ➤ Sculpture ➤ Woodwork ➤ Ceramics ➤ Textile ➤ History of arts/visual communication B.F.A-110 students per year M.F.A-52 students per year Admin block ➤ Placed near entrance consist of principal room, staff room, waiting area, lobby etc. ➤ 2 entrance for building ➤ Admin area-495  Ceramic block ➤ Stories ➤ Ground floor used as studio with benches and storage cupboards. ➤ First floor consists of studio for learning textile design  Open space ➤ Addition of trees, pergolas, sculptures and artifact in open area gives the feel of connectivity to place ➤ These spaces also act as outdoor working are for students as students tend to sit in nature to carry on there work lot.  Art gallery 	Ceramic workshop ➤ Adjacent block near ceramic block is ceramic workshop and the coal kiln. ➤ Ceramic store room is used for storing students work.  Red building ➤ Consist of library, painting studio and museum, movable stage of 300mm height is used at studio to display subject. ➤ Floor height of classroom is 4.5m • Library and stor-224sq.m • 1+2-224sq.m • 3+4-224sq.m • Museum-378sq.m  Red building  Painting studio	Sculpture block ➤ Single storey ➤ Sculpture studio-275sq.m ➤ Sculpture courtyard-1035sq.m  Exhibit hall  1st year studio  1 textile and ceramic 2 ceramic workshop 3 ceramic store room 4 coal kiln 5 print making 6 visual communication 7 red building 8 sculpture block	KAVIN KALAI KALLURI , CHENNAI Sudervel.D 39210091 
--	---	--	---	--

ABOUT PROJECT ➤ Typology: institute ➤ Location: situated near Jamia school, doctor Husain memorial and museum, Delhi ➤ foundation was laid by Mr. Abdul kalam azaad in 1951.  Department of Art History and Art Appreciation (Department of Applied Arts) Department of graphic art  Courses and programs ➤ Painting ➤ Sculpture ➤ Applied arts ➤ Graphic art ➤ Art education ➤ Art history & appreciation Landscape • Sculpture in open spaces adds beauty to the space. • Lot of green space provide calming atmosphere.  	LAYOUT,ZONE PLANNING. ➤ site is well segregated into various zones with respect to the functions and activities. ➤ Circulation space are minimised to optimize efficiency in design  Department of graphic art  Department of painting  Department of sculpture  Library • Seating capacity-25 • Flooring –vitrified tiles • Roof-false ceiling • Area-50sq.m • Other door open towards central courtyard  BFA painting 1st year • Studio size 8mx5m. • Capacity 20 students. • Display boards attached to walls. • Lockers for storage materials. • Flooring P.C.C. • Working table size 900mmx500mmx800mm  BFA,M.F.A painting 2nd year • Studio size 10mx6m. • Capacity 20 students. • Display boards attached to walls. • Works majorly on large canvas. • Provision of drying canvas and storing. • Lockers for storage materials.  Faculty of fine arts & art education  Art history & appreciation • No of studio-3 • No of workshop-2 • Workshop-10mx10m • Semi open area-20mx10m • Area per student block -10sq.m • Sculpting 10mx6m per class  Applied arts department BFA 1st year, 2nd year Area-13mx6m Natural light and well ventilated room Seating fixed Flooring-terrazzo Electrical outlets at corner of class 	Department of sculpture  Wax sculpting  Metal sculpting  First Floor Plan  Ground Floor Plan 	JAMIA MILLIA ISLAMIA ,FACULTY OF FINE ARTS,DELHI Sudervel.D 39210091
--	---	---	---



ABOUT PROJECT ➤ Typology: Institute ➤ Location: near penny station. ➤ architect: Karan Grover associate. ➤ ESTABLISHED 31ST MARCH 2006. ➤ AREA:2 ACRES(2501SQ.M)  LAYOUTZONE PLANNING. ➤ Site consists of single block which consists of OAT and waterbody. ➤ Building is circular oval shape with central round corridor. The blocks consist of various wings which serve as different uses or spaces assigned. ➤ It is a multi level building which raises from basement all along the circular corridor in sloppy manner. ➤ Forms are subtle curvilinear and are planned along east west axis. ➤ Building is split into individual blocks connected with circular path. ➤ The built form largely face along north with gain natural lighting by reducing heat transmission. ➤ workshop under ground get natural lighting via skylight.	    Connectivity: - The corridor spaces are well connected and directional. - Different level of spaces were made interesting with ramps and steps. - Vertical connecting spaces are painted with bright colors and has the view towards courtyard with pool.   Studio space: - which have 2 levels lower one for interactive purpose which consist of conversational area, Recreational SPACE, projector and table tennis. - upper level consist of individual work area with personal computers which are partitioned by panels. Characteristics: - Central green yard has small oat which has a capacity of 100seating. - Circular connectivity among the individual blocks gives the feel of openness on both side because the presence of oat and green yard - Central space bring diffused light and act as a gathering space.  Entrance view from main gate 	 Basement floor plan All the services like pump room, UG sump are placed on the basement.  Ground floor plan  first floor plan The 4 modules will be accessed from the central forum .the defense related product design center is located underground like a bunker where landscape of skylights from above.  second floor plan The width of various academic blocks is kept such that there is sufficient penetration of natural daylight, between every block is a landscaped courtyard.	NATIONAL INSTITUTE OF DESIGN,BENGALURU. Sudervel.D 39210091 
---	---	---	--

NO	PARAMETER	CASE STUDY-1	CASE STUDY-2	CASE STUDY-3	CASE STUDY-4	CASE STUDY-5	CASE STUDY-6
1	PROJECT	KAVIN KALAI KALLURI, CHENNAI	CHITHRAKALA PARISHATH - BANGLORE	KALA ACADEMY GOA	JAMIA MILLA ISLAMIA FINE ARTS	IBM-BANGALORE	NID-BANGALORE
2	LOCATION	Situated near Parktown, Chennai, poonamale high road.	Kumara Krupa road, 2.5km from central bus station.	Goa, Panaji, along the river mandovi.	Situated near Jamia school, Dr. Hassan memorial & museum, Delhi	Bannerghatta rd, Bangalore, Karnataka.	Near penya station, Bangalore, Karnataka.
3	ARCHITECT	Established by British in 1950.	Jakaria and Thomas.	Ar.Charles correa	NA	Ar.B.V.Dhoshi	Karan Grover associate.
4	SITE AREA	4 acres	13 acres	6.3 acres	-	102 acres	1 acres
5	BUILT UP AREA/ COVERAGE	50%	35-40%	40%	-	22.9 acres	0.7 acre
6	TOPOGRAPHY	Slight slope	Flat on left half and contoured 10m from N-S	slight slope towards river side	Flat surface	undulated terrain with gentle slope	Gentle slope
7	FORM						
8	ENTRY	Site has single entry	site has only one entry which act as path for all pathways	Site has 4 entries, on riverside boat jetty is provided	Site has single entry	Site has 2 entrance main entrance and service entrance	Site has 2 entries main entrance and service entrance.
9	BUILDING APPROACH	 oblique approach	 oblique approach	 Frontal building approach	 PROTECTED	 Spiral approach	 radial approach
10	CORRIDOR/ LOBBY	 CORRIDOR, OPEN LOBBY	 CORRIDOR, OPEN LOBBY	 CORRIDOR, OPEN LOBBY Resembles street of goa	 CORRIDOR, OPEN LOBBY	 CORRIDOR, OPEN LOBBY	 CORRIDOR, OPEN LOBBY
11	OPEN SPACES	Central garden in-between blocks.	Oat, stoned pathway, trees in-between blocks and studio spaces	Cafeteria, garden and amphitheatre, venturi effect.	Courtyard on new block.	Passageways where tree animate space	OAT, waterbody, central courtyard
12	CIRCULATION				 Circulation space are minimised to optimize efficiency in design		
13	AMENITIES	MEP service, well, toilets, etc	Service units, cafeteria, toilets, etc.	Cafeteria, toilets, water, service units.	Toilet, cafeteria etc.	E-vehicle, toilets, MEP service, water tank drinking, cafeteria, etc.	Utility, security, etc.
14	FEATURE SPACE	Pergolas, tree shades.	Stone pathways, rock landscape, etc.	pergola at entrance represent campal road	Green ground	Library, staircase and bridges.	Underground studio classroom(bunker).
15	SITE ZONE						
16	CONNECTIVITY	Axial tar road act as connecting element.	Axis divides site into half Where it connects diagonal to other spaces.	site east and west without obstructing air movement.	Blocks are connected by pathway road.	staircase where landings met with corridors for floor pathway.	Radial connectivity and in-between block connectivity.
17	LANDSCAPE	Tree below space act as working space.	rock landscape, stone pathways, green trees.	green lush lawn act as a main part of site.	Statues beauty to space & provide comfy spot.	Building blend with nature	Central water pool, green lawn.
18	MATERIAL	Brick, lime mortar, concrete, R.C.C etc.	brick, Mangalore tile, corbelled stone brackets.	RCC, brick, vibrant colour of goa.	brick, concrete, plaster, marble, tile.	Stones, Exposed concrete.	Concrete, R.C.C, tiles
19	GATHERING SPACE	Central garden	cafeteria, library, entrance lobby, etc.	OAT, amphitheatre, outdoor seating.	Corridors and courtyard	Oat, seating spaces, stairs, corridors, lobby.	Central lawn, roof of skylight and corridors.
20	PROGRAM	BFA&MFA Painting, Sculpture, Woodwork, Ceramics, Textile, History of arts/visual communication.	BVA and MVA in painting, applied art, art history, sculpture, graphic art.	Dinanath Mangeshkar Kala Mandir, Exhibit space, Bharatanatyam class rooms, technical class rooms.	Departments for: Applied Art, Painting, Sculpture, Art Education, Art History & Art Appreciation, Graphic Art	-	-
						Sudervel.D 39210091	

CHAPTER 4

4.1 Site selection

LOCATION: Rajiv Gandhi salai, opposite to tata consultancy Sholinganallur, Chennai

Latitude: 12°52'43.76"N

Longitude: 80°13'30.46"E

Accessibility: rail (Chennai central), plane (pallavaram airport), bus (semmenchery bus stop).

4.2 Local norms and CMDA regulations

LANDUSE: site can be used for institutional purpose.

SURROUNDING LAND USE: Mixed land used and industrial land use.

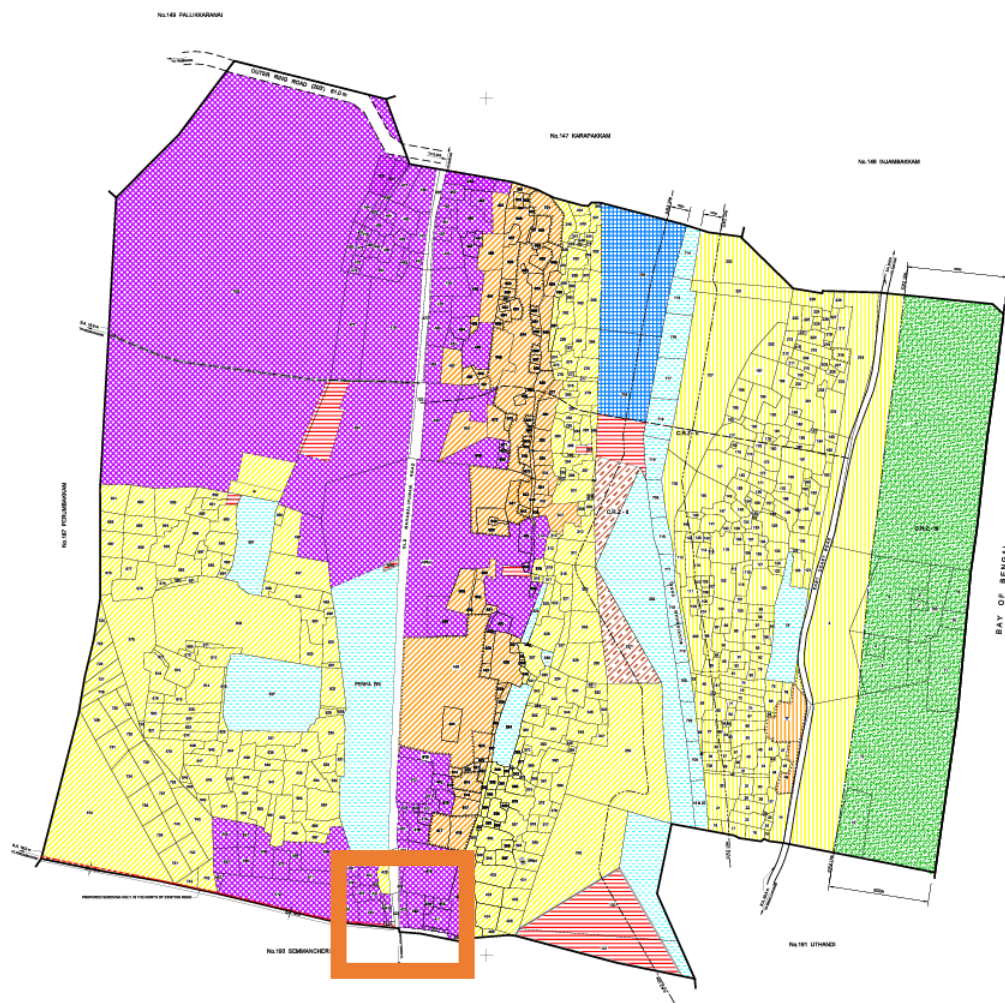


Figure 38: land use map

- Minimum plot extent: 440sq.m
- Minimum plot frontage: 15m

- Front setback: abutting road width above 30m-6m
- Side setback: 2m on both side
- Rear setback: 2m

4.1 Land Requirements for Technical Institutions

	Land Area requirement in Acres					
	Other than Rural places (Competent Authority to certify that the place is not located in a rural area)			Rural Places as defined by Competent Authority		
	UG Programs	Diploma	Stand alone Post Graduate Programs	UG Programs	Diploma	Stand alone Post Graduate Programs
Engineering & Technology	2.50	1.50	2.5	10.0	5.00	10.0
Pharmacy	0.75	0.75	0.75	2.00	2.00	2.00
Architecture & Town Planning	1.00	1.00	1.00	2.50	2.50	2.50
Applied Arts & Crafts	0.75	0.75	0.75	2.00	2.00	2.00
HMCT	1.00	1.00	1.00	2.50	2.50	2.50
MCA	--	--	0.50	--	--	1.50
Management	--	--	0.50	--	--	1.00

4.1.1	a	Land area shall cover hostel facilities, if any
	b	Land shall be in one continuous piece.
	c	Considering hilly nature of land in North Eastern States, land may be made available in 3 pieces which are not away from each other by more than 1 Km

4.2 Built-up Area Requirements

4.2	a	The Institution area is divided in, Instructional area (INA, carpet area in sq. m.), Administrative area (ADA, carpet area in sq. m.), Amenities area (AMA, carpet area in sq. m.).
	b	Circulation area (CIA) is equal to $0.25 \times (INA+ADA+AMA)$.
	c	Total built up area in sq. m. is equal to $(INA+ADA+AMA) + (CIA)$.

	Number of Divisions UG (Class of 60)	Duration of course in Yrs	Class Rooms (C)	Tutorial Rooms (D) PG Class rooms (H)	Laboratory (including additional WS/Labs for category 'X' courses)	Research Laboratory	Work Shop (for all courses)	Additional WS/Labs for Category 'X' courses	Computer Centre	Drawing Hall	Library & Reading Room	Seminar Halls
Carpet Area in sqm per room			66	33	66	66	200	200	150	132	400	132
Number of rooms required for new Institution	A	4	C=A	D=C/4	02/Course	-	1	-	1	1	1	1
Total Number of rooms (UG)	A	4	C=Ax4	D=C/4	10/Course [#]	-	1	2/Course (Maximum 4)	1	1	1	1/Course
Total Number of rooms (PG)	F	2	-	H=Fx2	1/Specialisation	1/Specialisation						

1	Category X of courses: Mechanical, Production, Civil, Electrical, Chemical, Textile, Marine, Aeronautical and allied courses of each.
2	Classrooms, Tutorial rooms and Laboratories required for 2 nd , 3 rd and 4 th year may be added progressively to achieve total number as stated.
3	Additional Library (Reading room) area of 50 sq m / per 60 student (UG+PG) intake beyond 420.
4	UG laboratories if shared for PG courses shall be upgraded to meet requirements of PG curriculum
5	[#] Progressive requirement, 2 nd year onwards shall be calculated as 3+3+2 labs/course
6	[#] Additional 5 Labs/Course when number of divisions are more than 2/course.
7	Round off fraction in calculation to the next integer.

4.2.2 Administrative Area (Carpet Area) in sq m

	Principal/Director Office	Board Room	Office all inclusive	Department Offices	Cabins for Head of Departments	Faculty Rooms	Central Stores	Maintenance	Security	Housekeeping	Pantry for staff	Examinations Control Office	Placement office
Carpet Area in sqm per room	30	20	150* 300s	20	10	5	30	10	10	10	10	30	30
Number of rooms required for New Technical Institution	1	1	1	-	-	First Year Student intake/15	1	1	1	1	1	1	-
Total Number of rooms	1	1	1	1/Dept	1/Dept	One per teaching faculty (as per	1	1	1	1	1	1	1

4.2.3 Amenities Area (Carpet Area) in sqm

	Toilets (Ladies & Gents)	Boys Common Room	Girls Common Room	Cafeteria	Stationery Store & Reprography	First Aid cum Sick room	Principal's quarter	Guest House	Sports Club / Gymnasium	Auditorium / Amphi Theater	Boys Hostel	Girls Hostel
Carpet Area in sqm per room for Technical Campus having more than one Program	350*	100	100	150	10	10	150	30	200	400	Adequate	Adequate
Carpet Area in sqm per room for Technical Campus having one Program	150s	75	75	150	10	10	150	30	100	250		
Number of rooms required for New Technical Institution	Adequate	1	1	1	1	1	-	-	-	-	-	-
Total Number of rooms	Adequate	1	1	1	1	1	Desired	Desired	Desired	Desired	Desired	Desired

4.3 SITE JUSTIFICATION

- site has the potential for constructing intuitional building, ongoing metro project helps for easier transportation facility.
- There are two road abutting to site primary road where entrance arrive is Rajiv Gandhi express highway and secondary road adjoin site is the road connecting towards Nookampalayam.

4.4 SITE ANALYSIS

Total site area :22 acres. (121191sq.m)

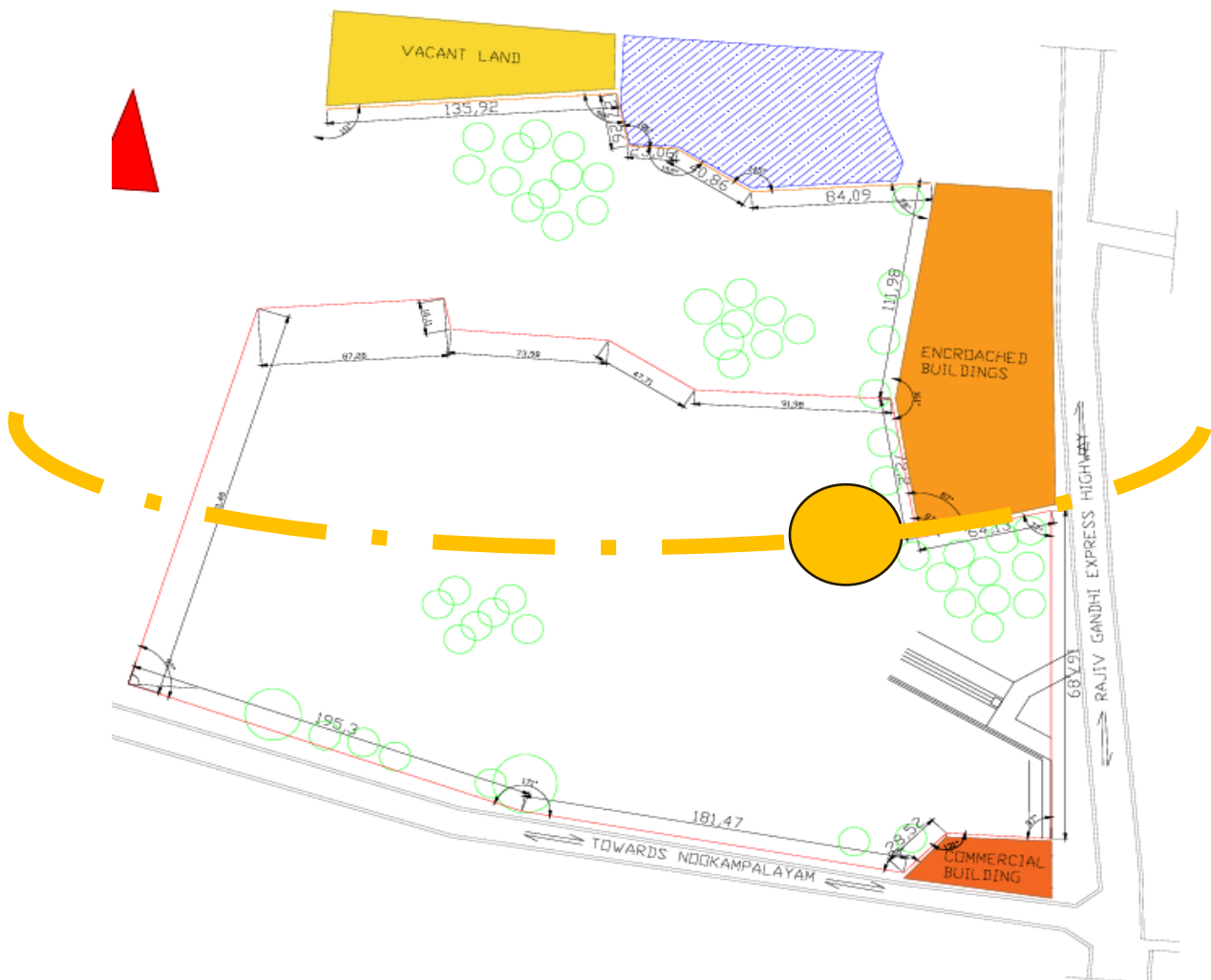


Figure 39: site

Sun path diagram

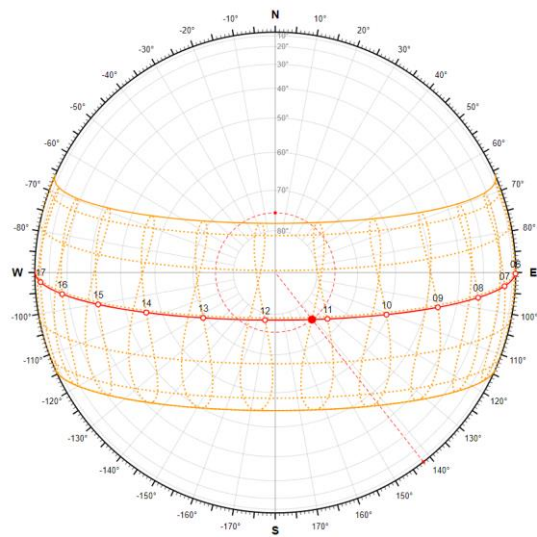


Figure 40

Precipitation

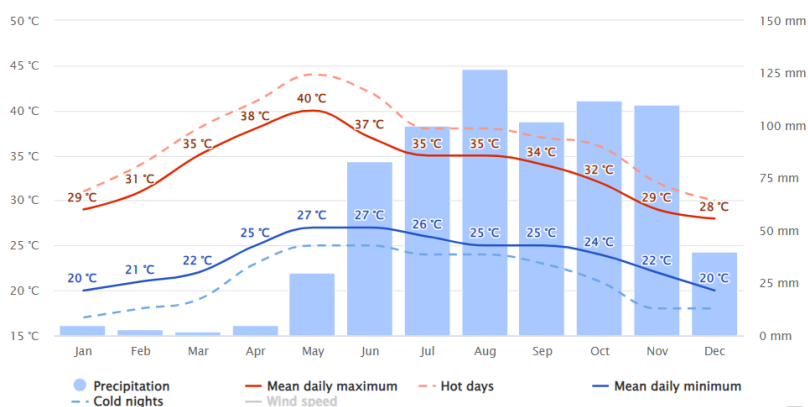


Figure 41

TEMPERATURE

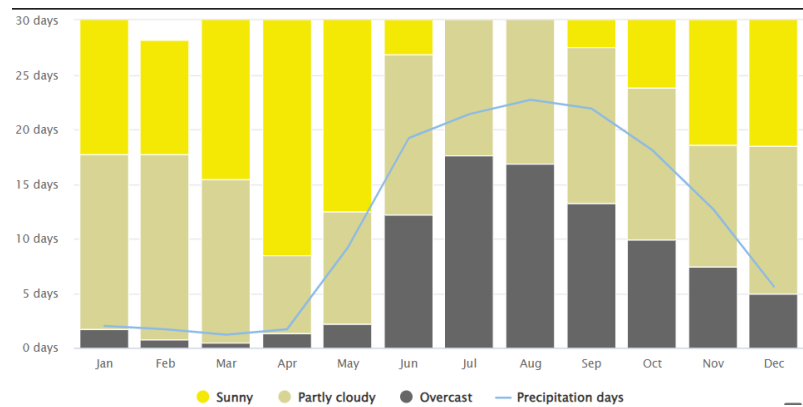


Figure 42

WIND ROSE DIAGRAM

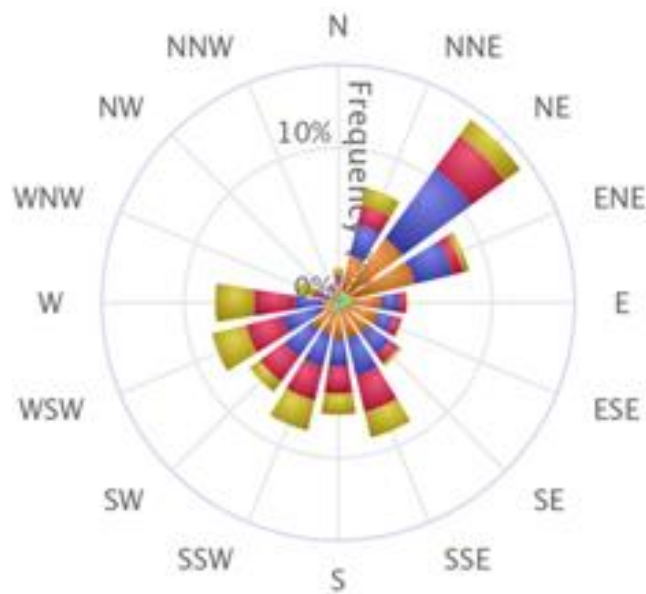


Figure 43

Chennai is located on coromandel coast From ECBC climatic zone map of India, Chennai falls under warm and humid climate. Its mean monthly temperature is 30degree Celsius and relative humidity is greater than 55%.

- **Climate:** warm and humid
- **Soil type:** clay soil
- **Hydrology:** 4.5m below EGL
- **Disaster:** flood
- **Vegetation:** neem tree, palm tree. Fire lily tree, pongamae oil tree, ivy ground, green bushes.



4.5 swot analysis

Site has the potential capacity for constructing institution.

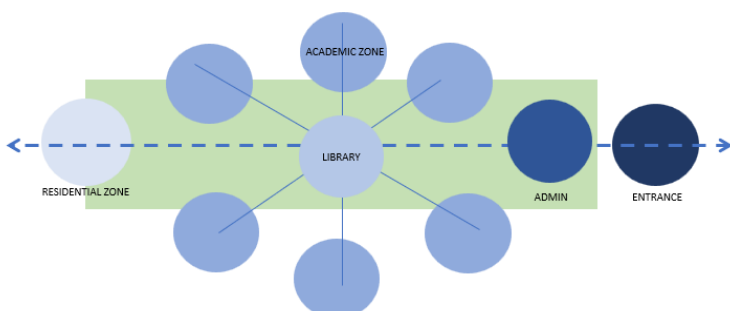
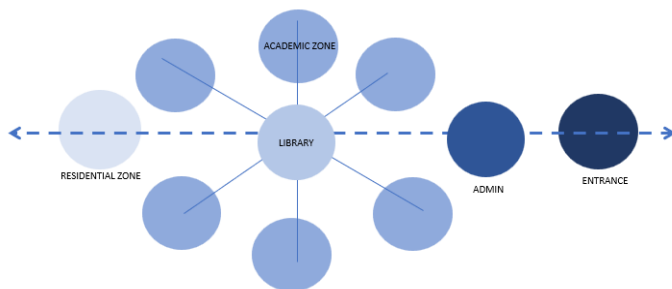
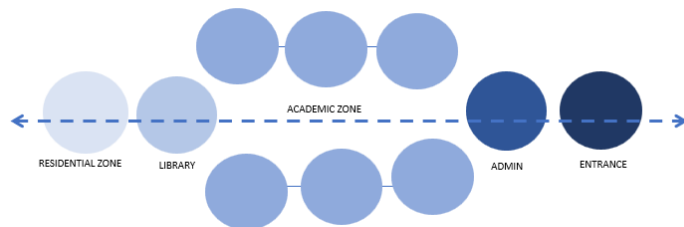
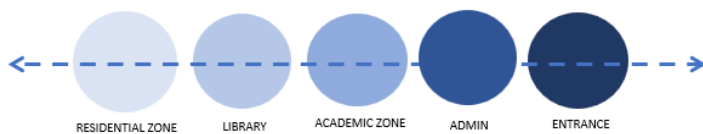
During December time flood may occur



Ongoing metro projects help for easier transport

Building at SE corner hides the site

4.6 DESIGN DEVELOPMENT



ARRANGING
MASSES BY
CONNECTING
SPACES IN A LINEAR
PLATFORM
ACCORDING TO

FOLLOWING
CIRCULAR
MOVEMENT IN
ACADEMIC BLOCK
FOR EASIER

INCORPORATING
CENTRAL COMMON
SPACES, TO
PROVIDE OPENESS
AND CREATE
EXPLORATION

ADDING LANDSCAPE
FEATURES AND
CAFETERIA FOR
WISER CONNECTION
WITH ENVIRONMENT
AND PEOPLE.

4.7 sketches and visualization

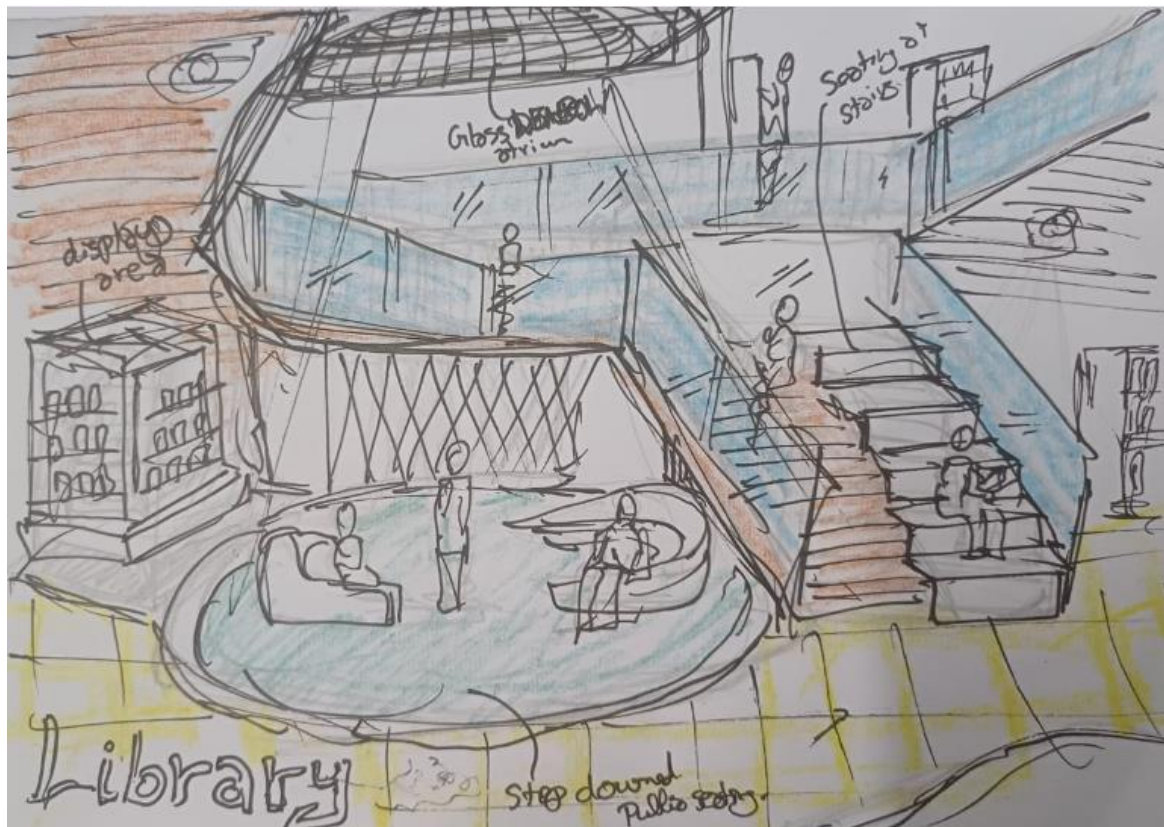


Figure 44: Library view from entrance rough sketch



Figure 45: Dining Hall



Figure 46: Landscape central view with solar charging station



Figure 47: painting studio classroom



Figure 48: Weaving studio



Figure 49: ceramic studio



Figure 50: Cafeteria inside view

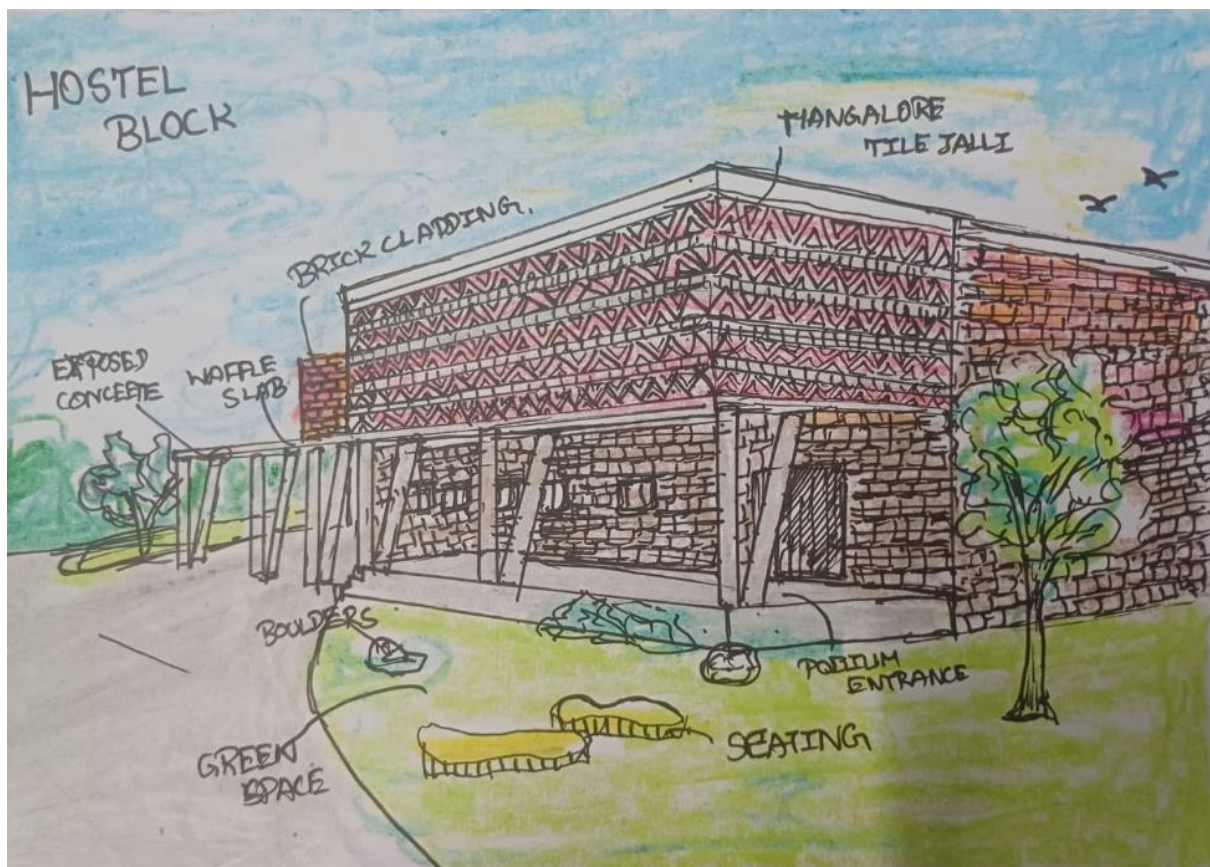


Figure 51: Hostel block Exterior view



Figure 4.7.9: CERAMIC DEPARTMENT EXTERIOR VIEW

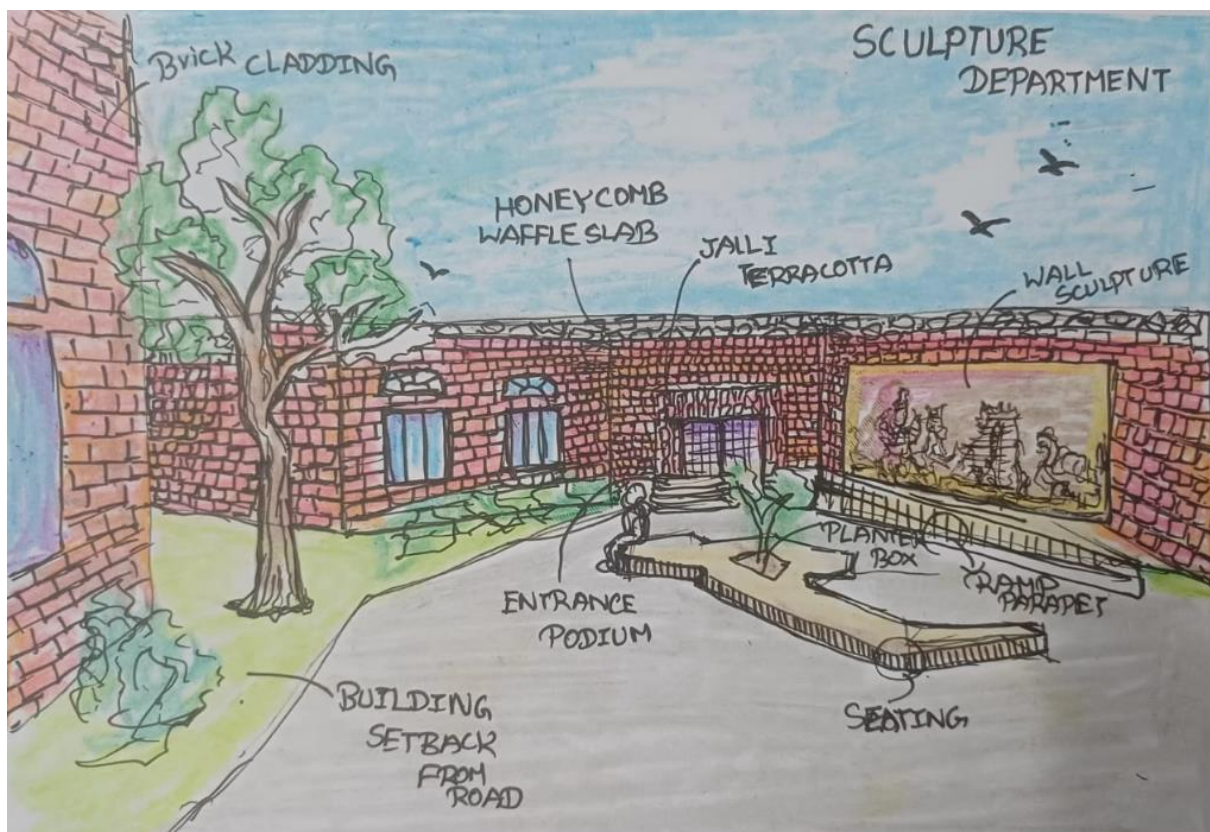


Figure 4.7.10: SCULPTURE DEPARTMENT EXTERIOR VIEW



Figure 4.7.11: ART AND HISTORY DEPARTMENT EXTERIOR VIEW

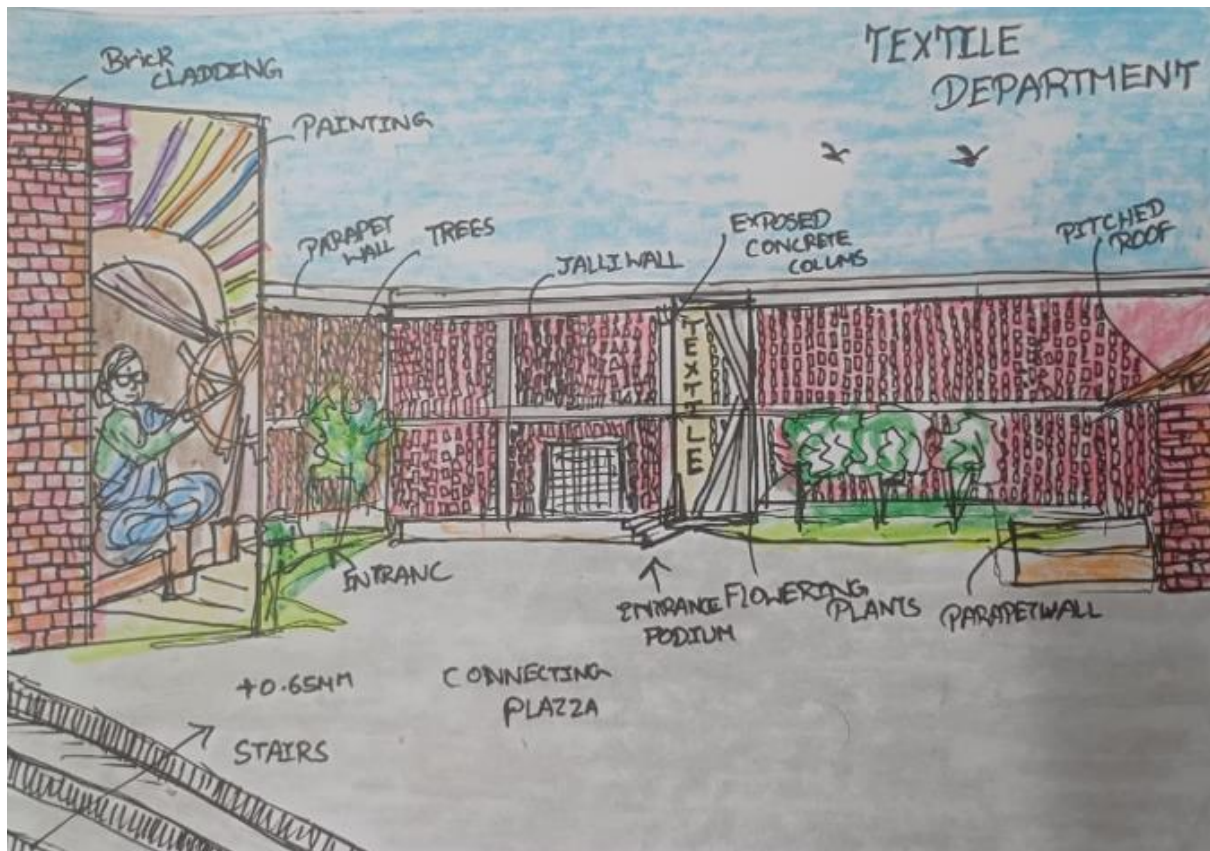


Figure 4.7.12: TEXTILE DEPARTMENT EXTERIOR VIEW

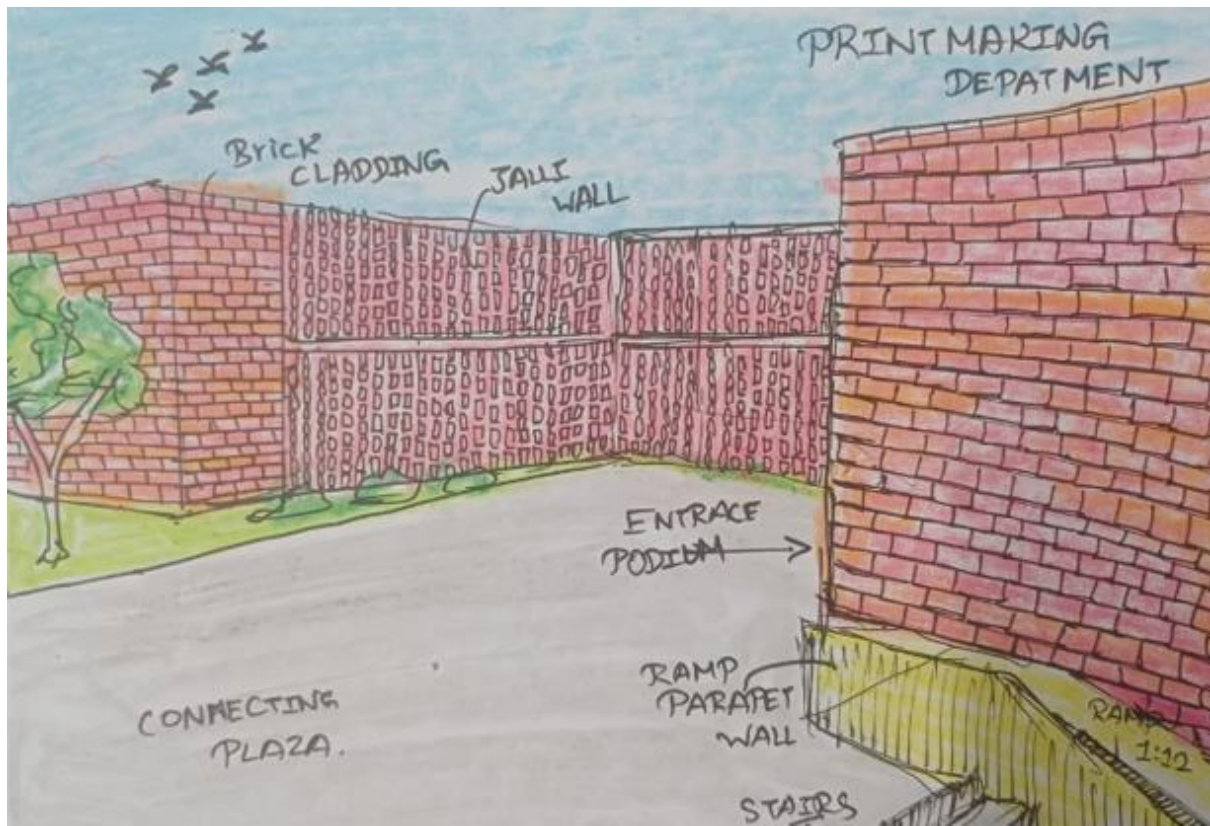
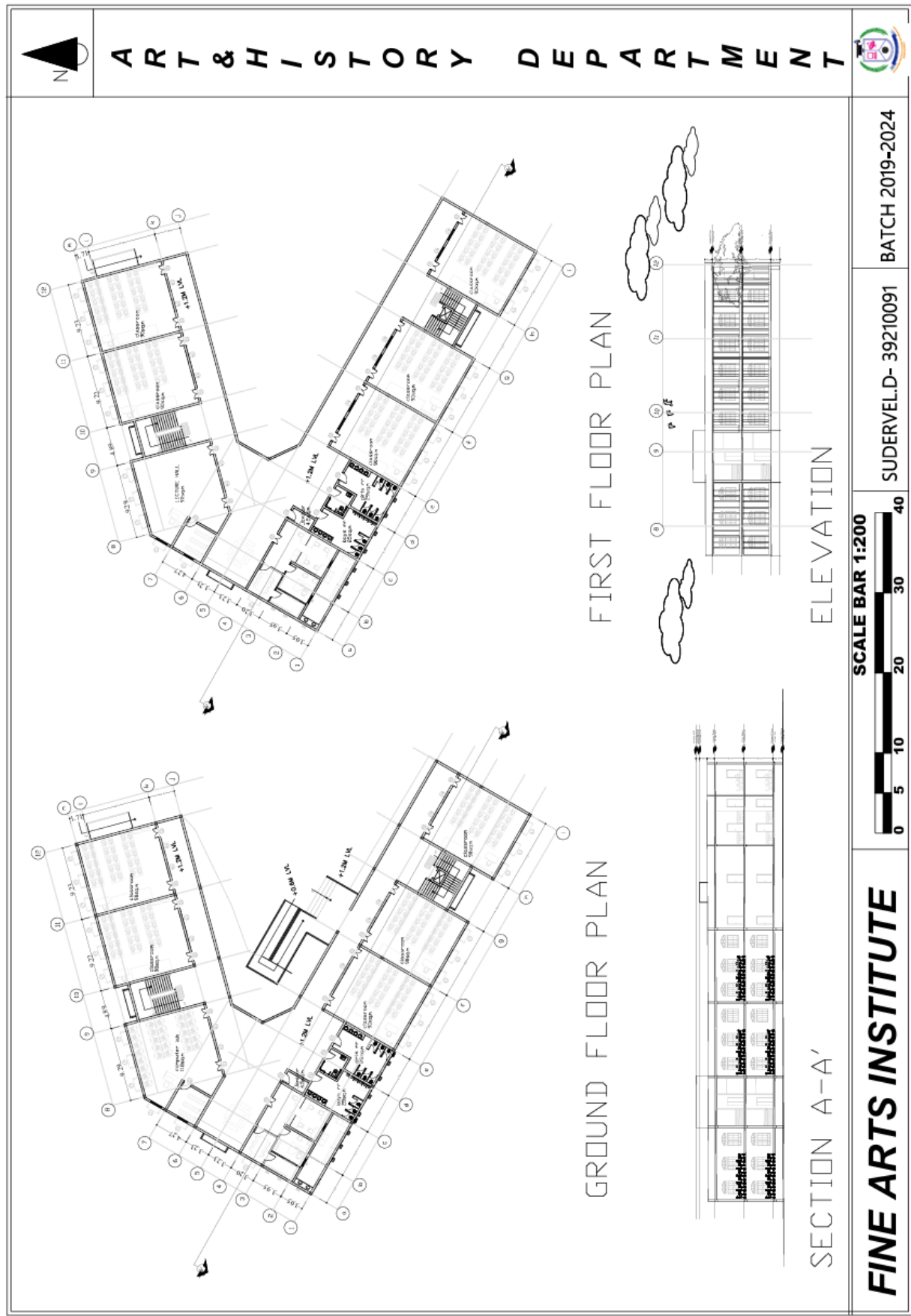
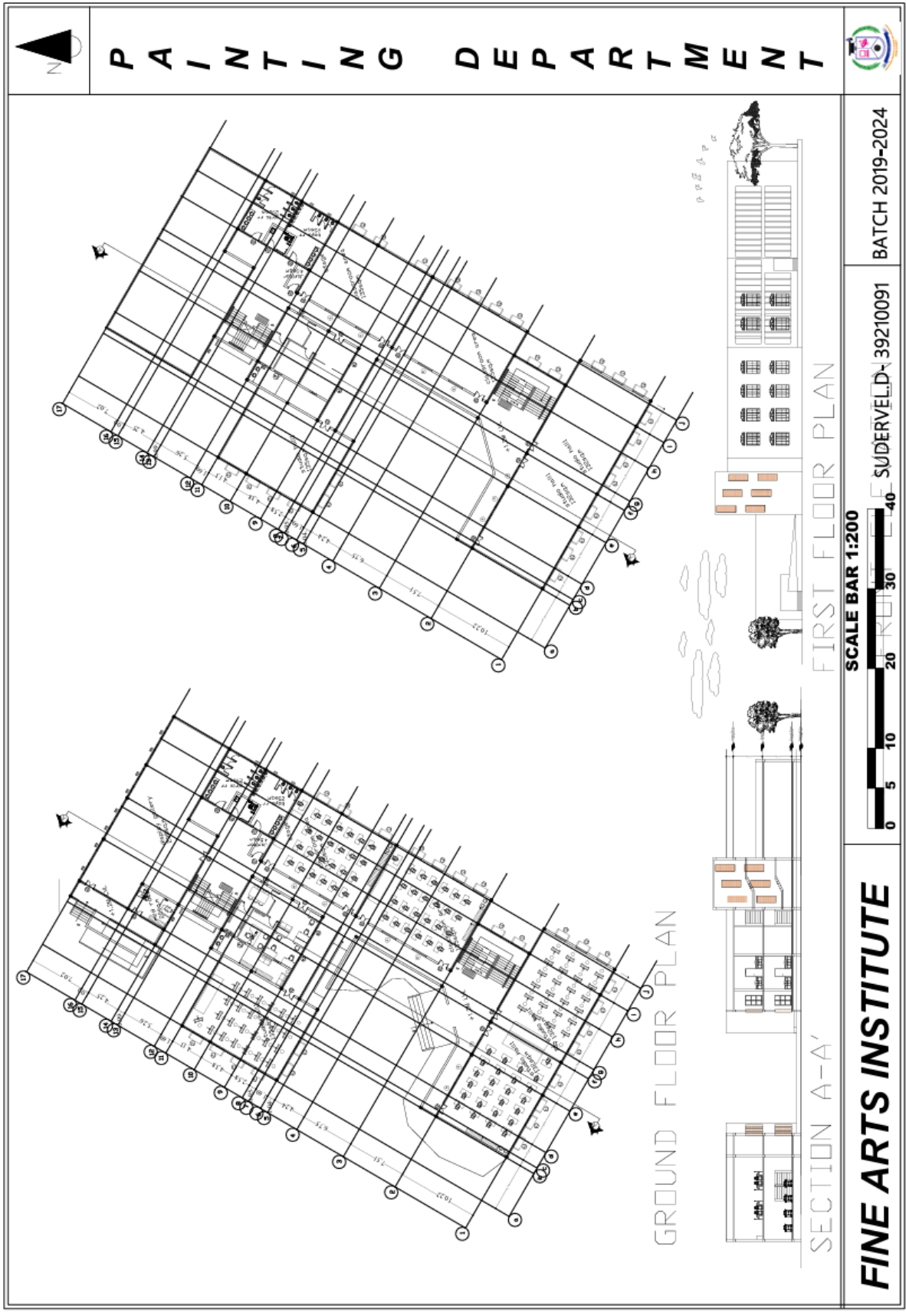


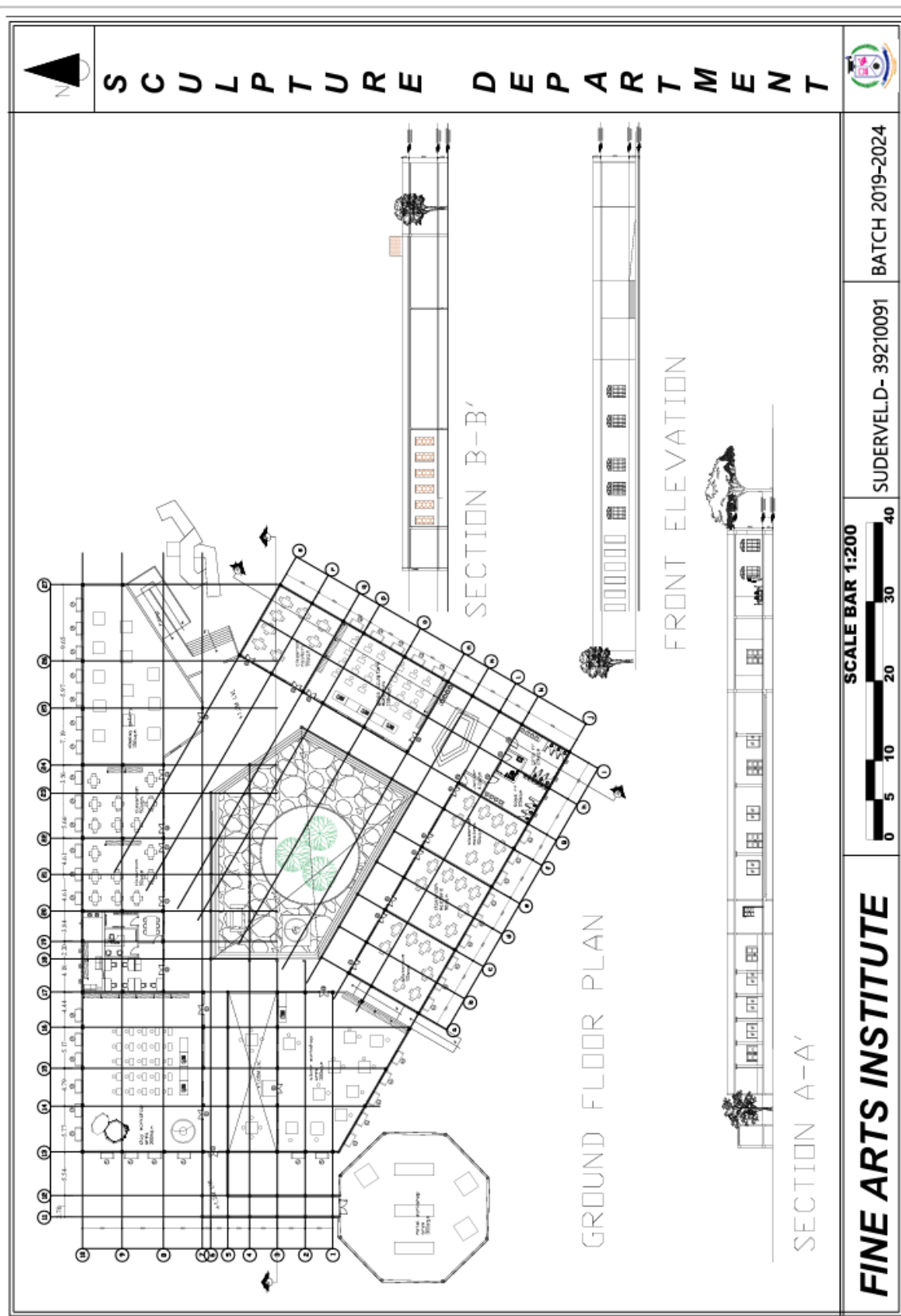
Figure 4.7.13: PRINTMAKING DEPARTMENT



Figure 4.7.14: SEATING PLAZA AS GATHERING SPOT



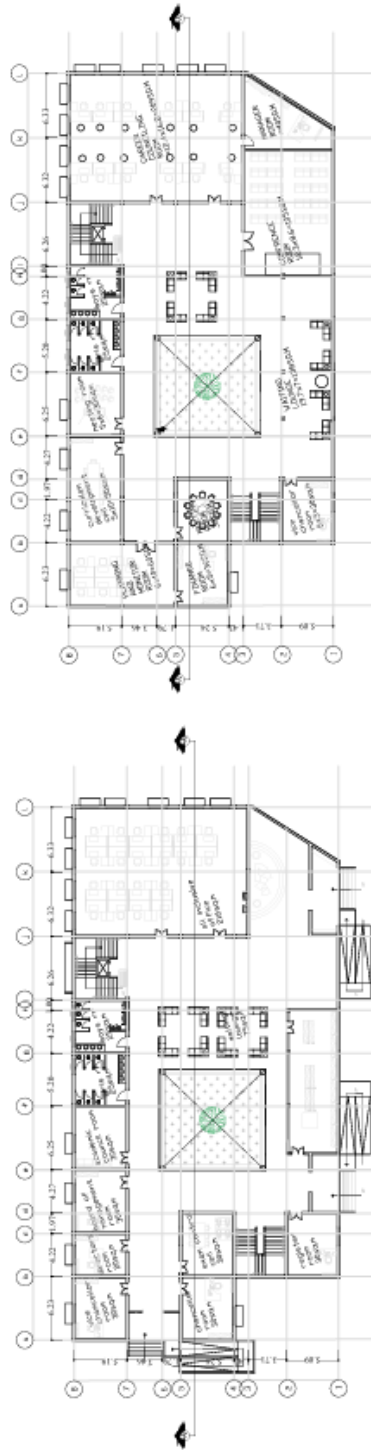




plates 3

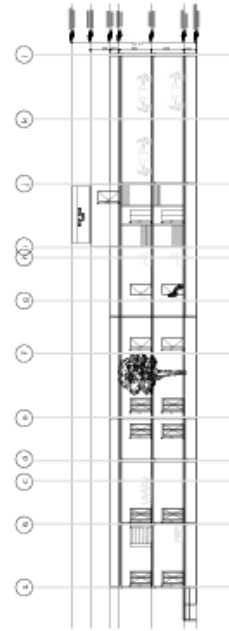


ADMINISTRATION BLOCK



GROUND FLOOR PLAN

FIRST FLOOR PLAN



SECTION A-A'

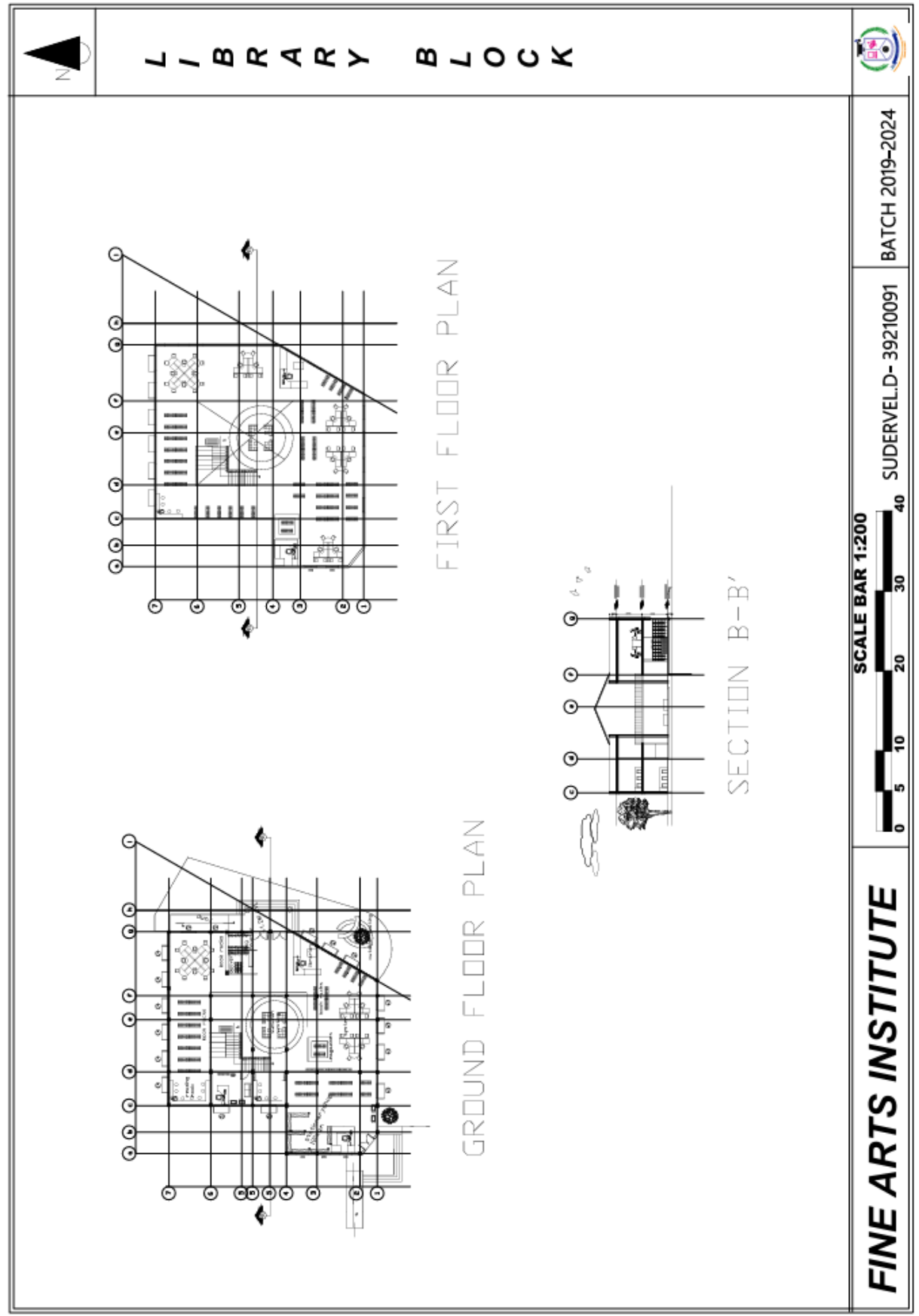
SCALE BAR 1:200

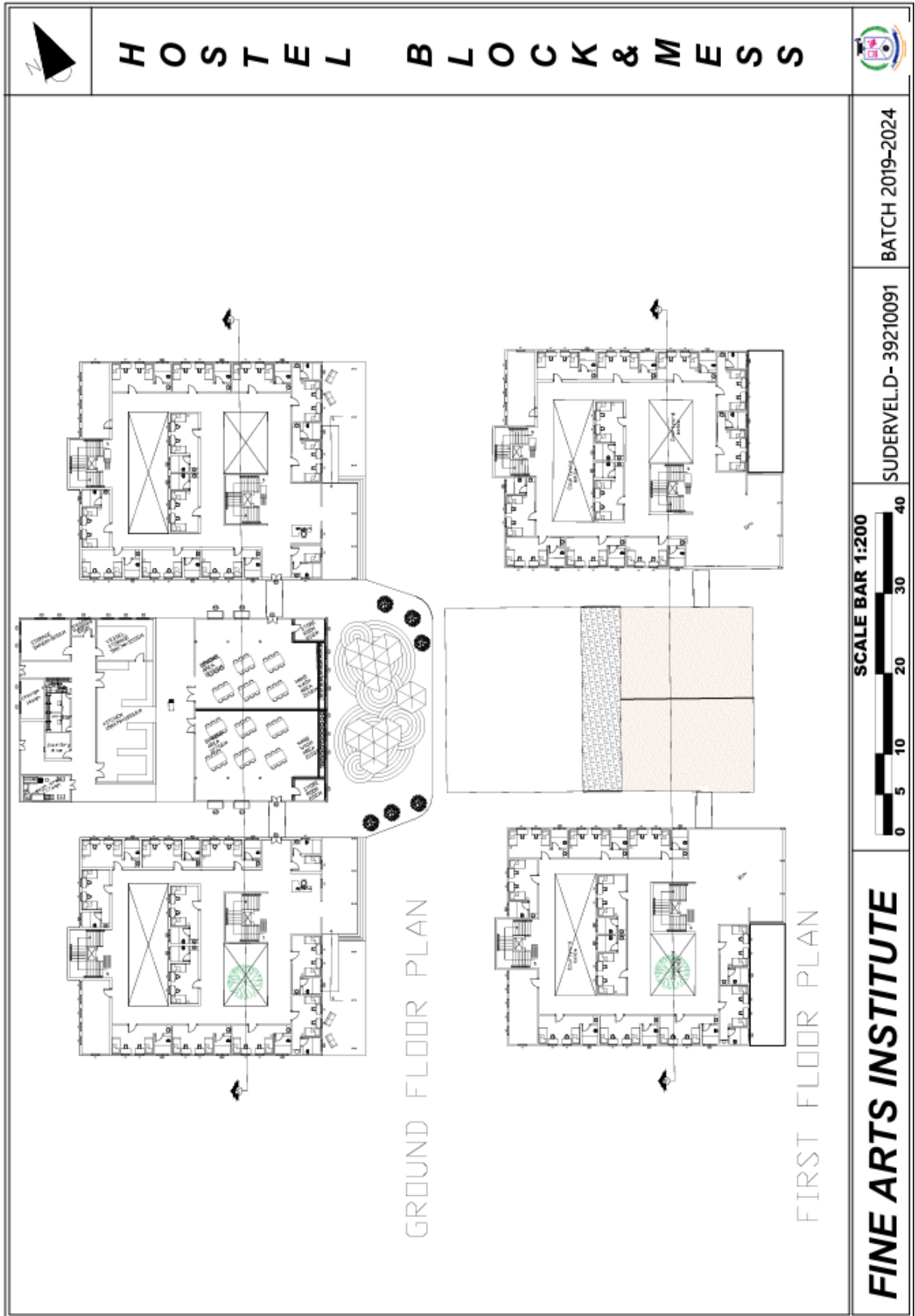


FINE ARTS INSTITUTE

SUDERVELD- 39210091

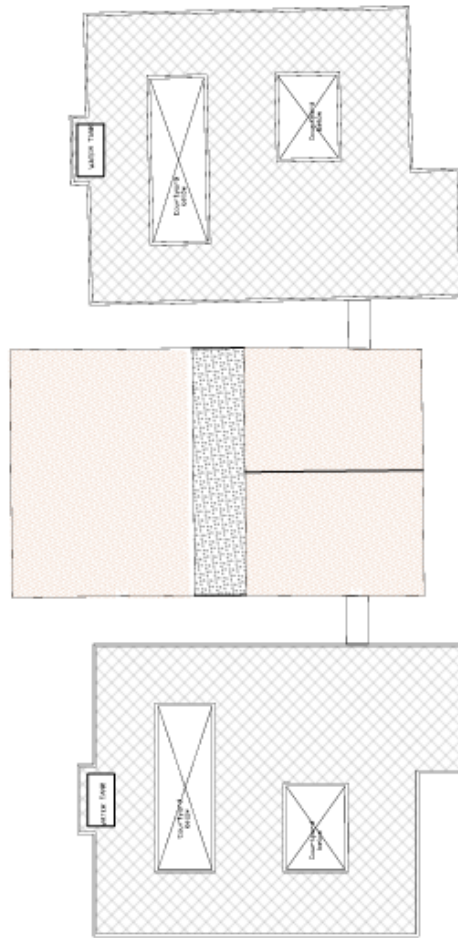
BATCH 2019-2024



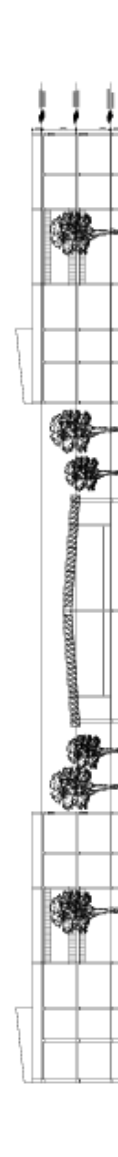




HOSTEL BLOCK & MESS



ROOF PLAN



SECTION A-A'

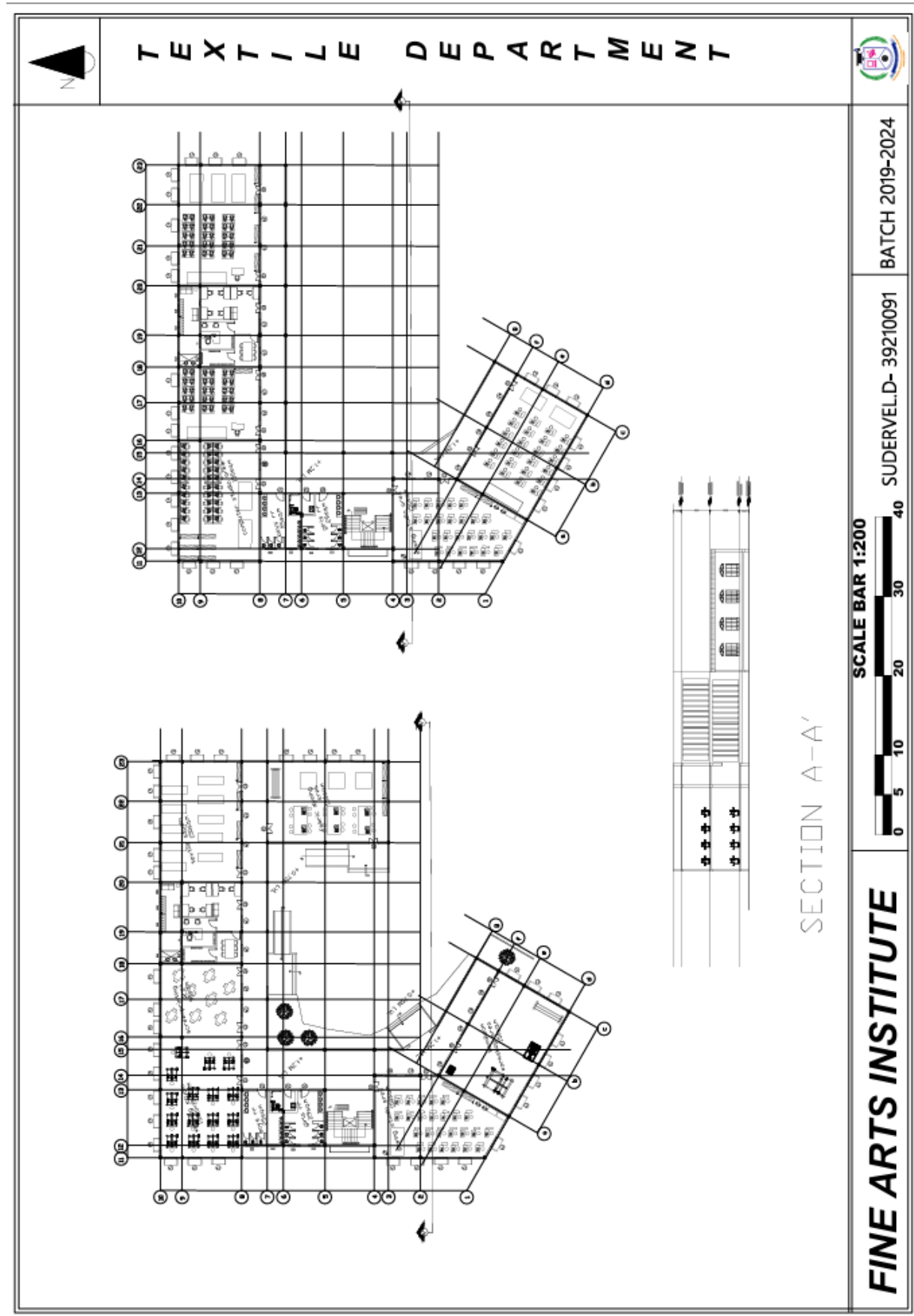
SCALE BAR 1:200



FINE ARTS INSTITUTE

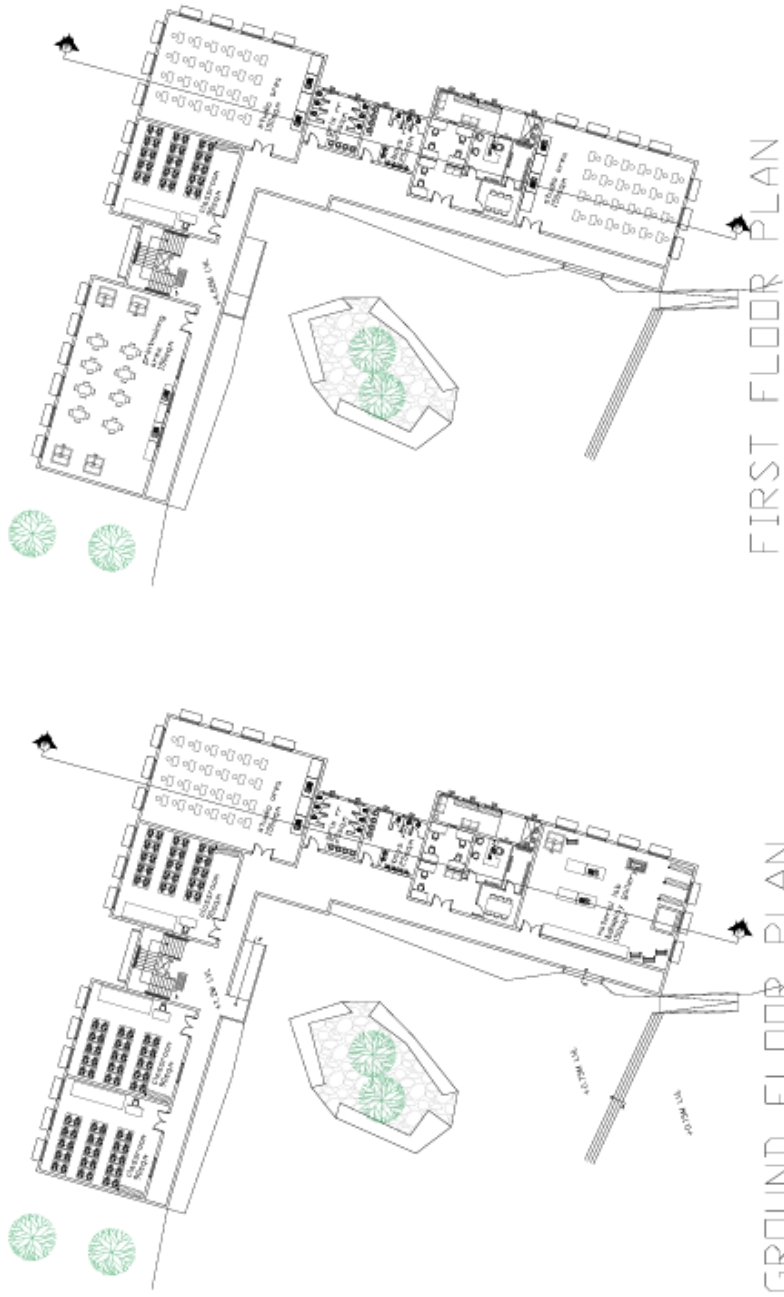
SUDERVEL.D- 39210091

BATCH 2019-2024





PRINT MAKING DEPARTMENT



SECTION A-A'

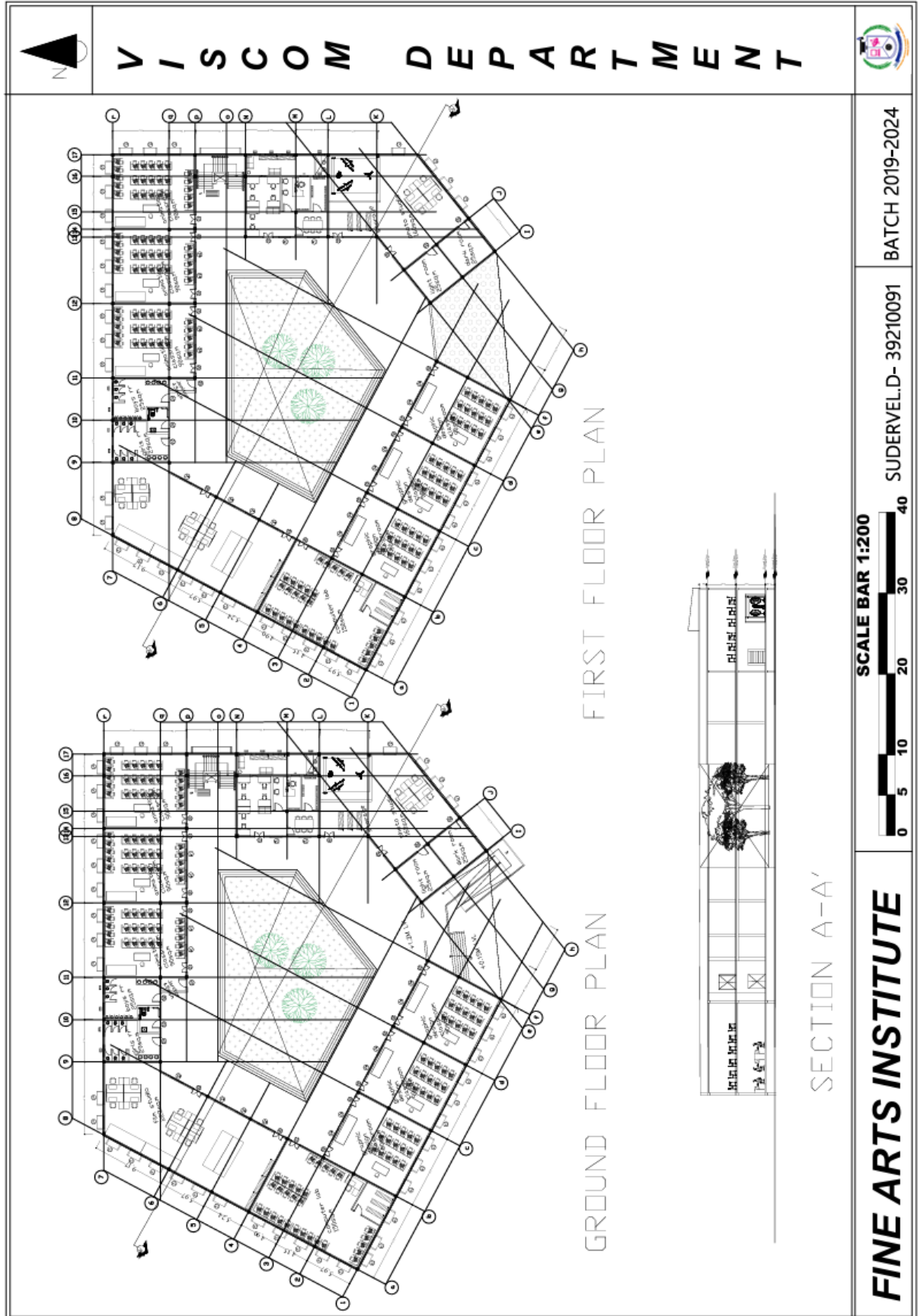
SCALE BAR 1:200



FINE ARTS INSTITUTE

SUDVEL.D- 39210091

BATCH 2019-2024



REFERENCE

6.1 STANDARDS

<https://ncte.gov.in/Website/regulation.aspx>

<https://www.bis.gov.in/standards/technical-department/national-building-code/>

6.2 WEBSITE

<https://www.tcp.tn.gov.in/masterplans>

<https://www.jmi.ac.in/ffa>

<https://www.cmdachennai.gov.in/sitemap.htm>

<https://chitrakalaparishath.org/>

https://sist.sathyabama.ac.in/sist_naac/documents/1.3.4/1722-b.arch-arch-batchno-28.pdf