

ARCHITECTURE & INDUSTRIAL DESIGN



CATALOGUE
2020

ARCHITECTURE & INDUSTRIAL DESIGN

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SCHOOL OF ART, DESIGN & ARCHITECTURE

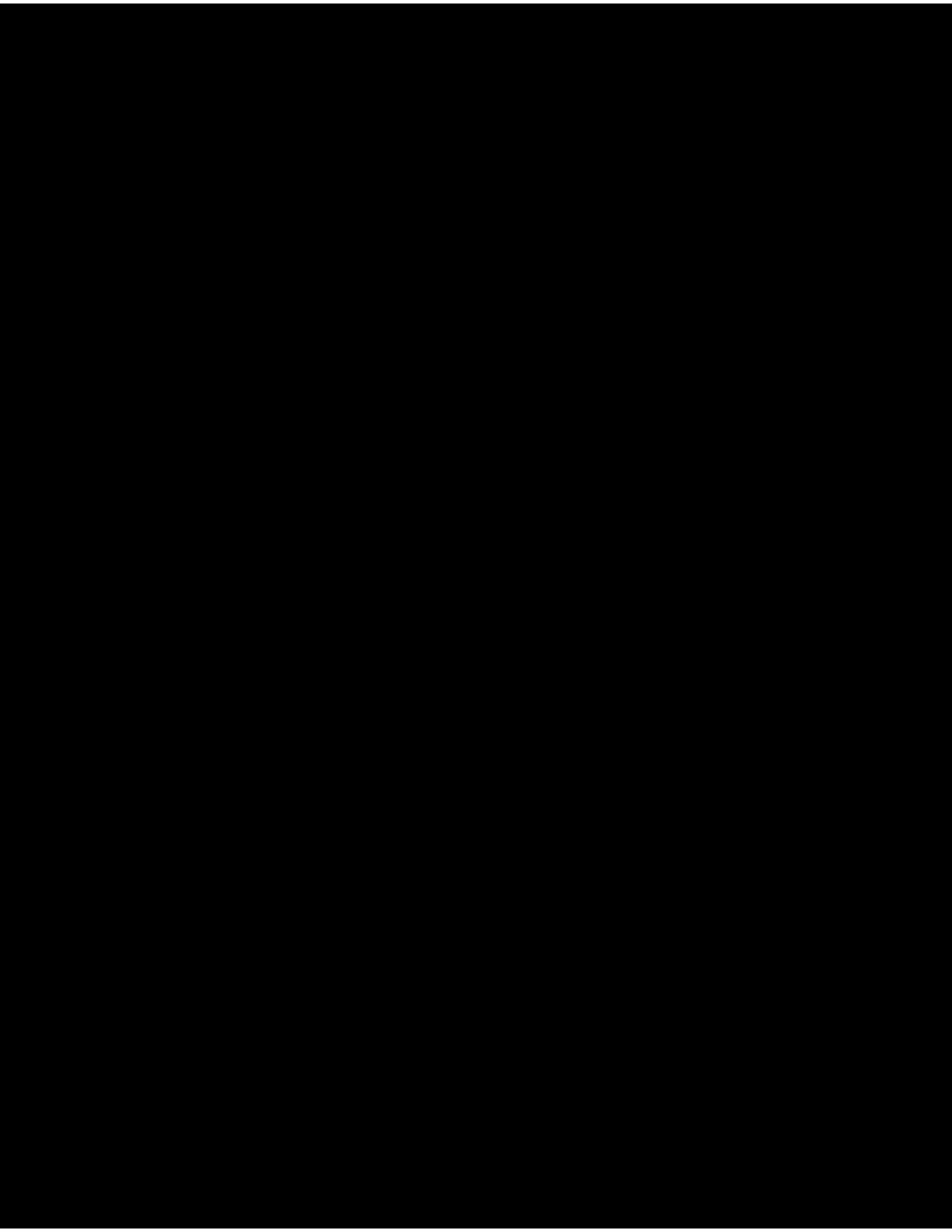
NATIONAL UNIVERSITY OF SCIENCES AND TECHNOLOGY

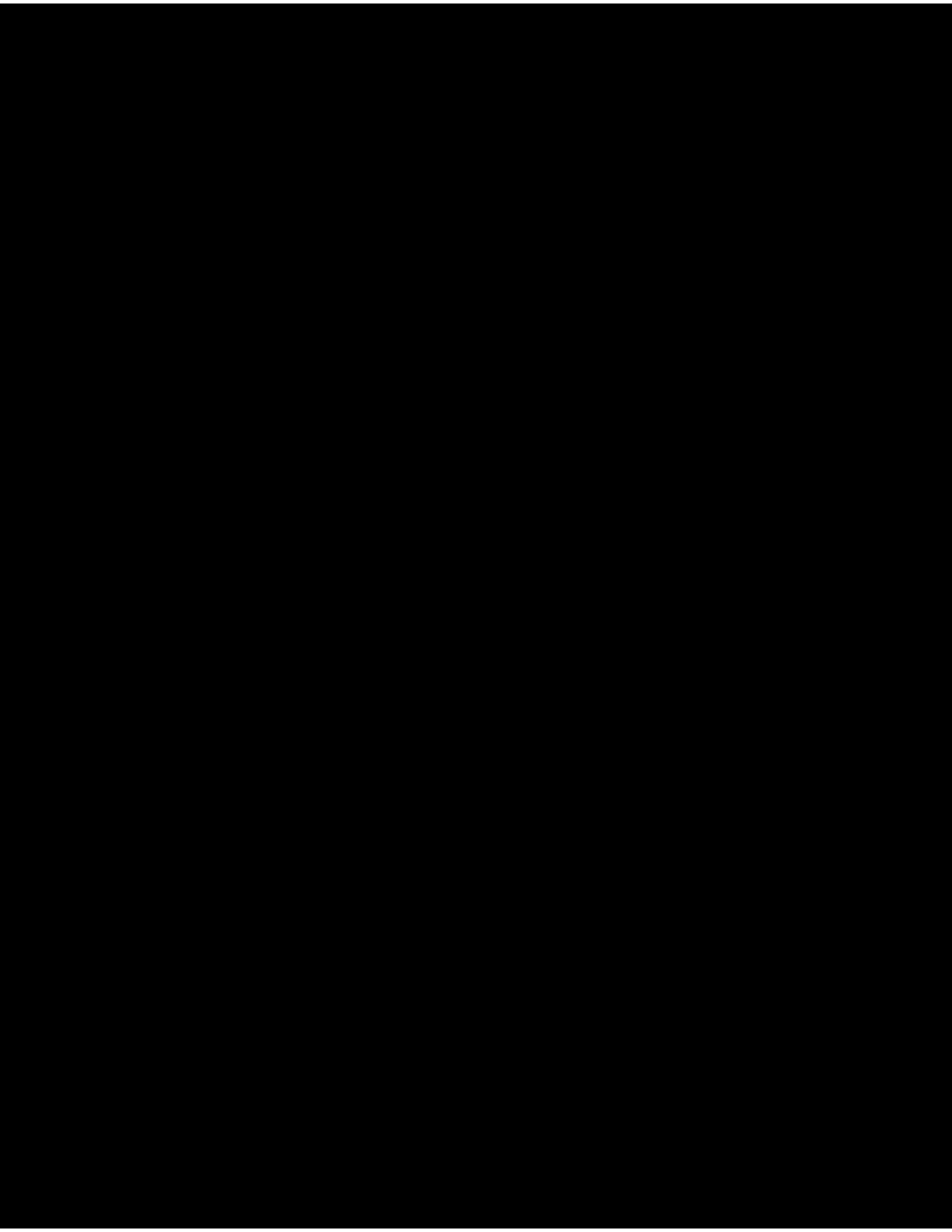
H-12, Islamabad Pakistan

info@sada.nust.edu.pk

+92-051-90855401

www.nust.edu.pk





CONTENTS

RECTOR'S MESSAGE	
PRINCIPAL'S MESSAGE	
ARCHITECTURE PROJECTS	2
GUEST LECTURES	131
WEBINARS	135
WORKSHOPS	139
INDUSTRIAL DESIGN PROJECTS	148
EDITORIAL BOARD	269
SADA FACULTY	271
ACKNOWLEDGEMENTS ARCHITECTURE	273
ACKNOWLEDGEMENTS INDUSTRIAL DESIGN	275



Lieutenant General Naweed Zaman, HI (M), (Retired) Rector National Institute of Science & Technology (NUST)

The year 2020 has been challenging for all of us due to COVID-19. Knowing full well the gravity of situation, NUST quickly adopted measures to contain the spread and got into the act of developing innovative anti-pandemic products and technologies. Notwithstanding the continuing predicament, the academic and research activities at NUST never came to a halt, as it ascended to more coveted positions amongst international and national universities – #355 globally and #1 in Pakistan.

Apart from sustaining excellence in teaching and learning, NUST grooms its students to become thorough professionals. Like any other institution of NUST, SADA has been producing high-calibre graduates, who have the will, poise and knowledge to create discernible impact in their respective professional spheres. I am specifically pleased to see the contributions of the School's alumni to the entities operating at National Science & Technology Park (NSTP).

My heartiest felicitations to the graduating students and their families. Quality work in this thesis catalogue bears witness to the creative potential of SADA's students. I would urge the fresh architects and industrial designers to stay put with the School's legacy of innovation and creative dynamism and further build the image of their institution. Let me also appreciate the efforts of the Editorial Team for putting together this excellent publication.

Wish you a happy reading!

Lt Gen Naweed Zaman, HI(M), (Retd)



Sikander Ajam Khan

Principal School of Art, Design & Architecture

SADA has undergone a period of consolidation, of its two programs as graduates have entered the profession, besides going abroad for higher studies. They have been well received nationally and internationally which is satisfying for us.

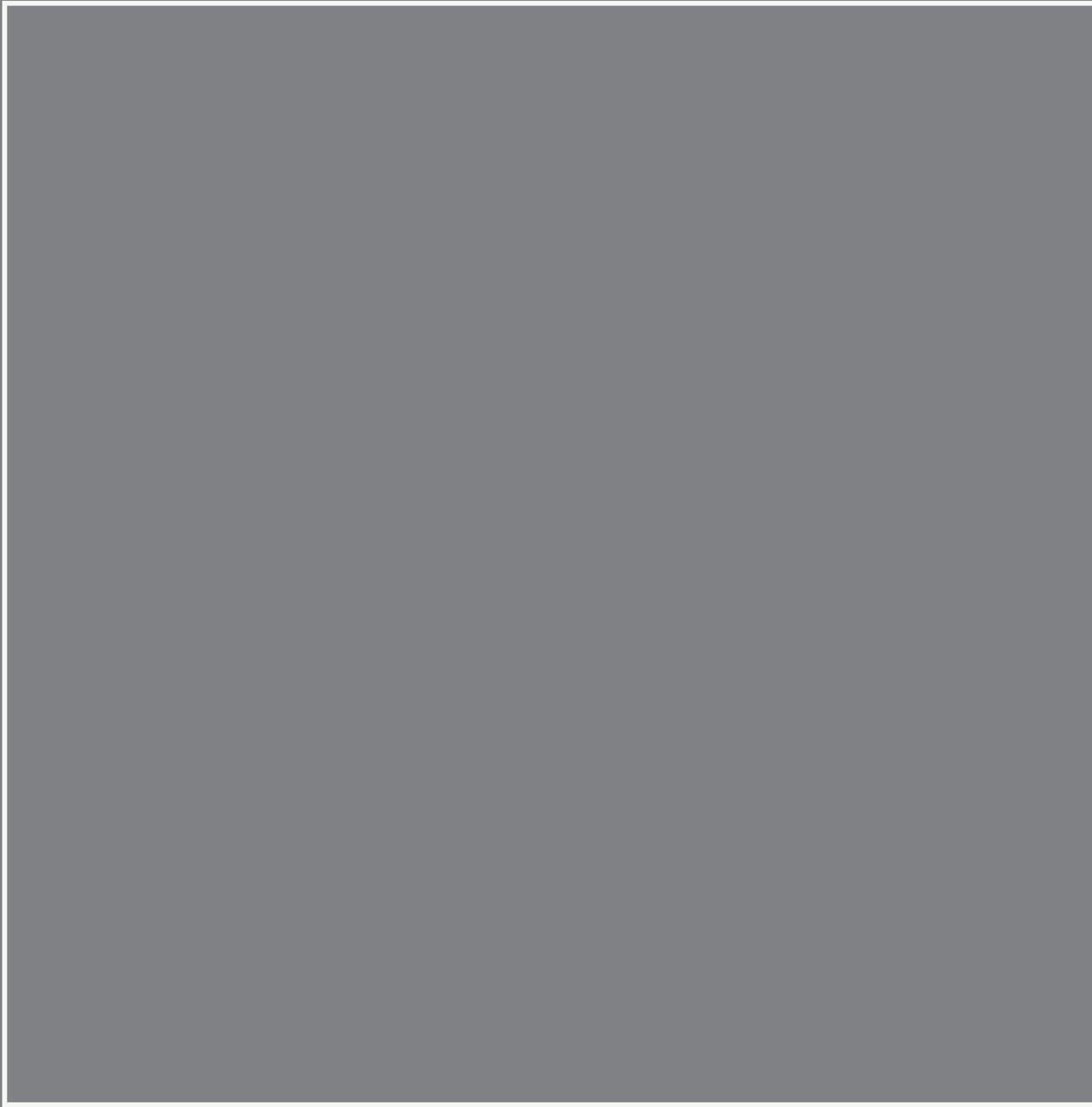
A large number of Fullbright and Erasmus grants have been received by the students. School now needs to forge new paths besides consolidating its success which includes curriculum review, co-ordination between theory courses, and studios, which will be the main focus for the present year. It was felt by all that a greater co-ordination effort is required in that direction to make the studios more meaningful and relevant. Studios are an integral part of the curriculum, ranging from intermediate to advanced culminating in a final year project for B.ID and the B.Arch thesis. This provides the necessary skills and competencies for future advanced studies and professional practice. Challenges of developing, critical and design thinking remain, as students who are not conversant, with this aspect and their previous education experience has not prepared them for a career in Architecture or Industrial Design remain, but now the school is better geared to deal with this issue.

SADA has been awarded the IAP/BAE student design excellence award first prize for two consecutive years, this is an achievement for a new school. SADA is focused on design excellence, generating patents in B.ID, the main challenge now for the school is that these patents get commercialized in large numbers, our B.ID students have also won international awards, and been published in reputed international magazines.

Alumni of SADA are vibrant and fully energized entity. The school would appreciate that they should help the recent graduates in securing jobs, help them through the licensing process of the country. They also provide valuable feedback to the school on various issues such as job counseling.

Covid-19 has put a severe dent in the way we teach, and has affected the functioning of the studios, SADA is grappling with this issue, and has taken steps to ensure that academics do not suffer through a combination of distant learning and face to face learning. Studios, its conduct and assessment are being carried out face to face. We are hopeful that the situation will improve in the near future.

We hope that the graduating students will keep a close relationship with the School. Warm wishes are extended to them and their families.





Department of
ARCHTECTURE



I M A R A H

Saira Rana

B.Arch 2015

srana.barch15sada@student.nust.edu.pk

Thesis Advisor: Ar./Plnr. Sikander Ajam Khan

Building Program:

A Permaculture Research and Learning Center for Rural Regeneration

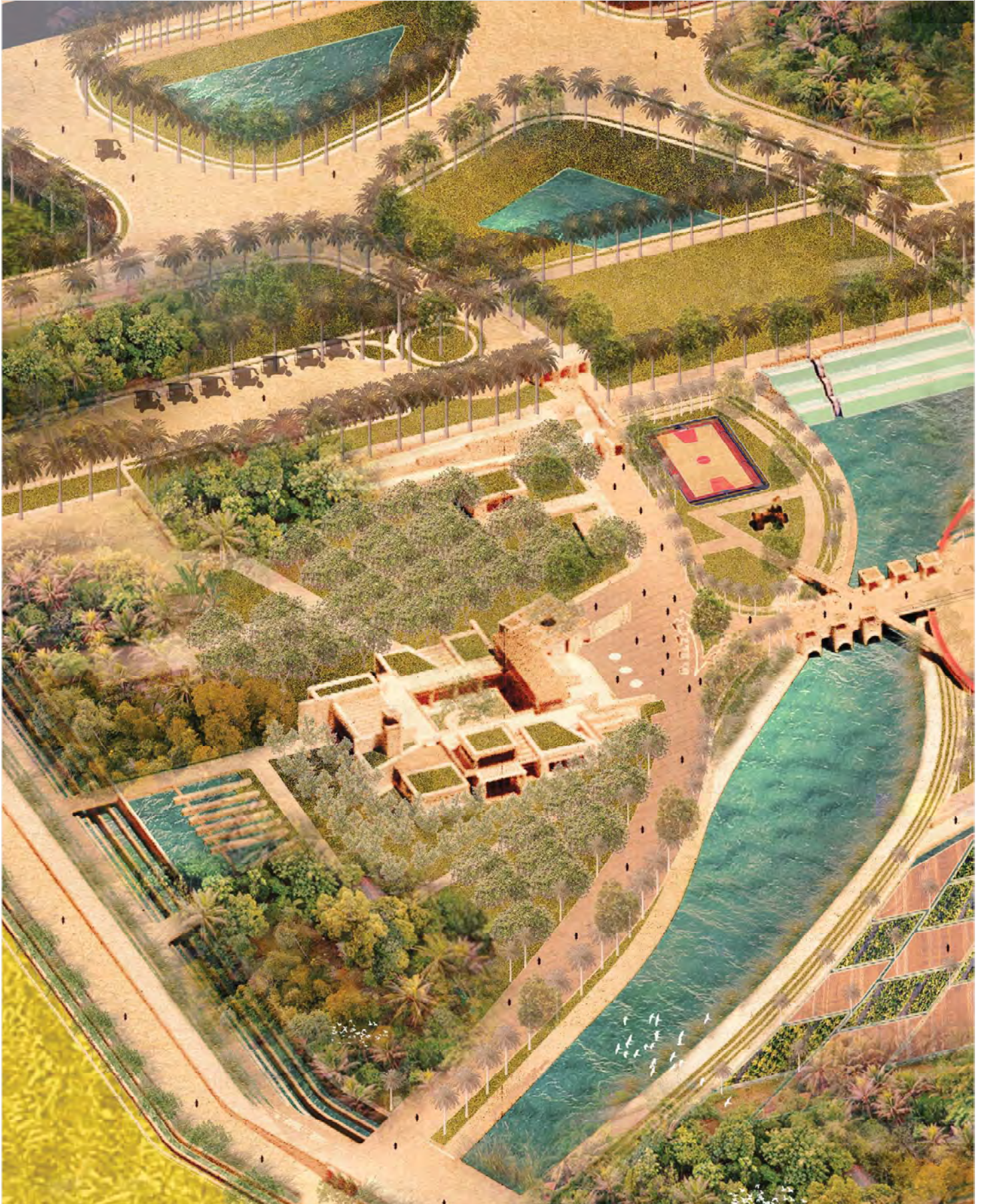
Site:

Sahiwal, District Sargodha, Punjab, Pakistan.

A Permaculture Research and Learning Center for Rural Regeneration.

Regenerating the patterns of traditional rural practices in order to cultivate a resilient rural community by adapting the Permaculture design model. This thesis is an attempt to analyze, observe and understand these intricate patterns and unfolding them to form a coherent language of an ecologically balanced and contextually alive space.









E N D U R I N G M E M O R Y

Syed Qaiser Mumtaz

B.Arch 2015

qsyed.barch15sada@student.nust.edu.pk

Thesis Advisor: Ar. Abdullah Omer

Building Program:

Multiplex, Film School &
Concert Hall

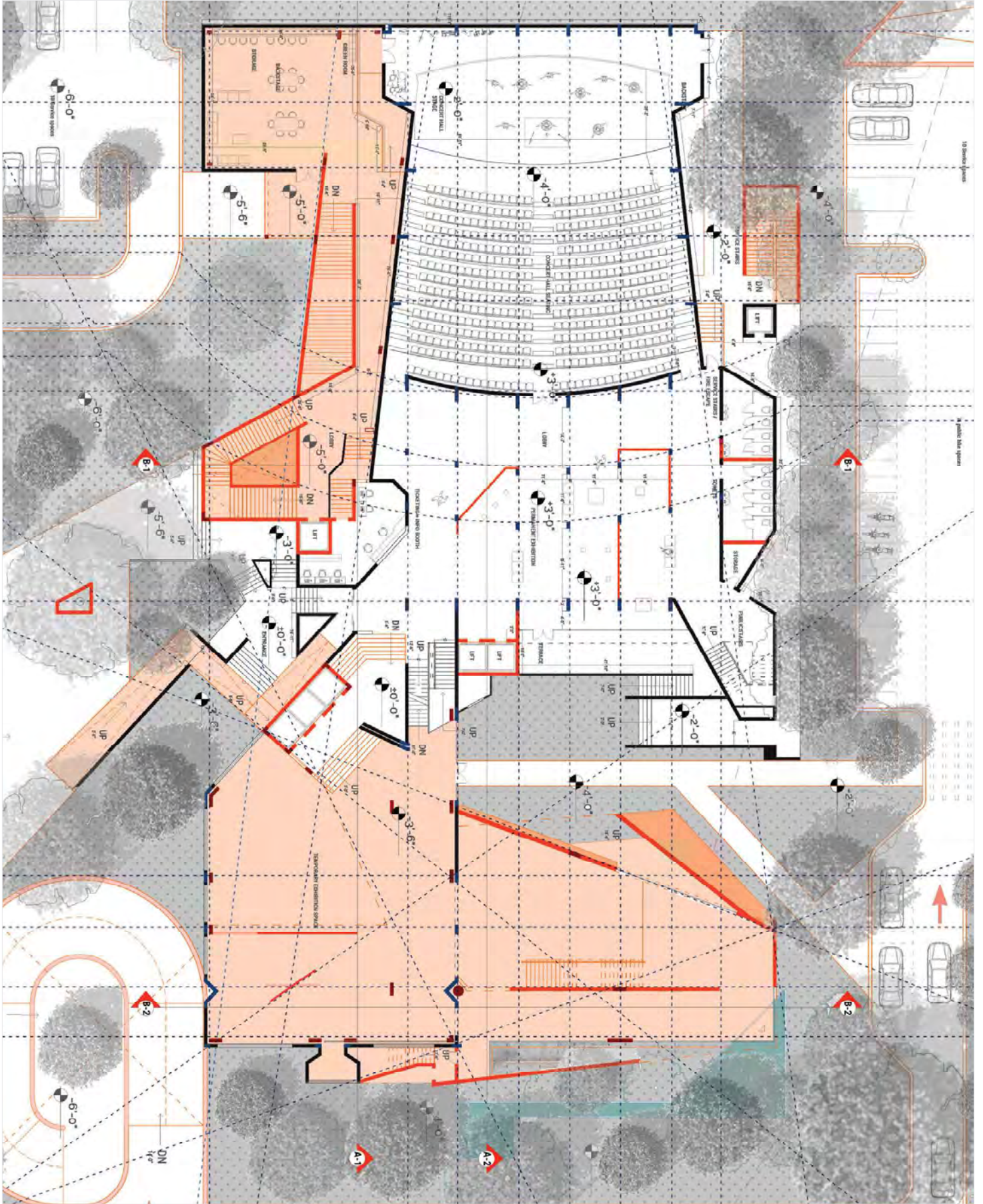
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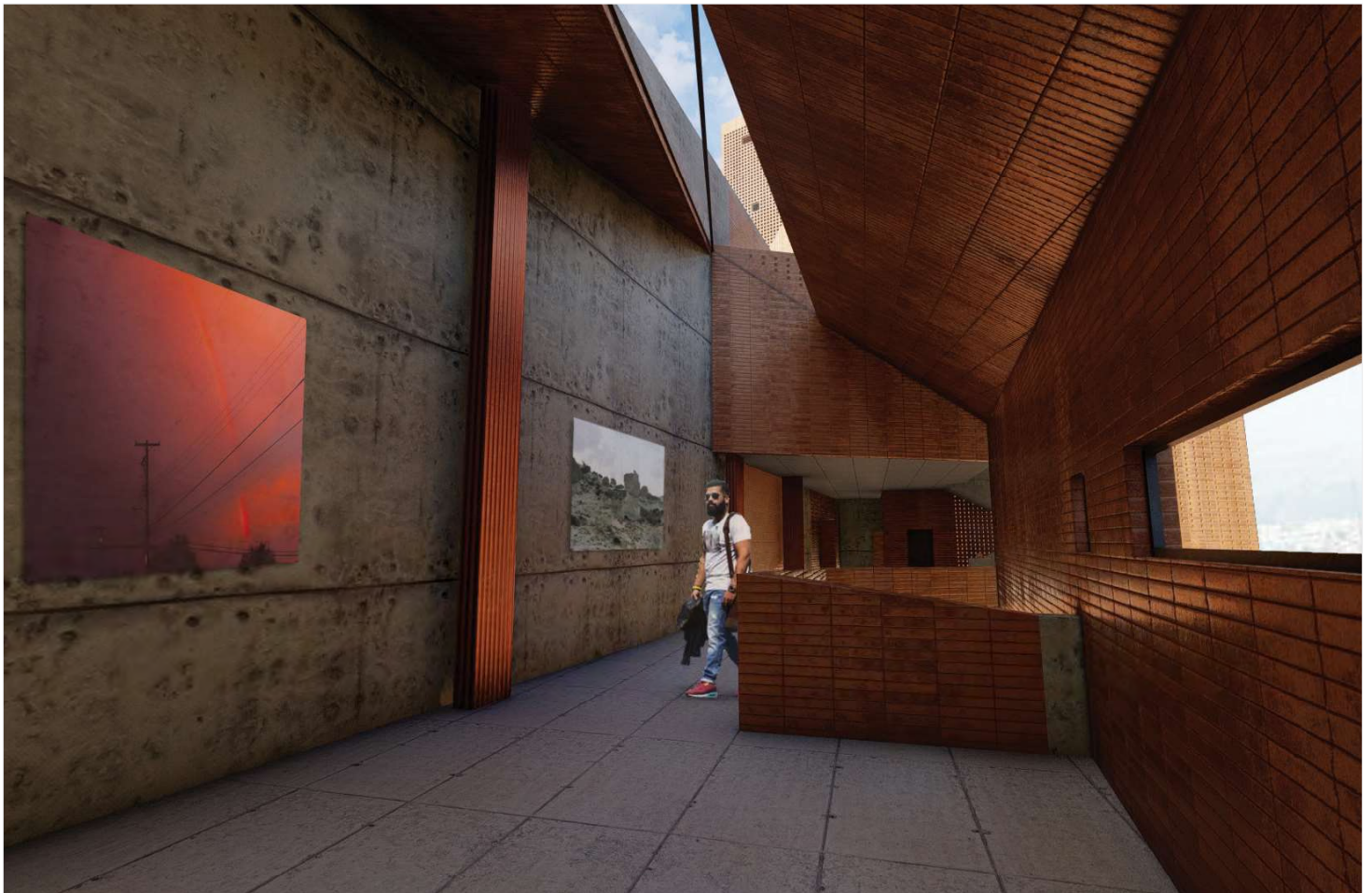
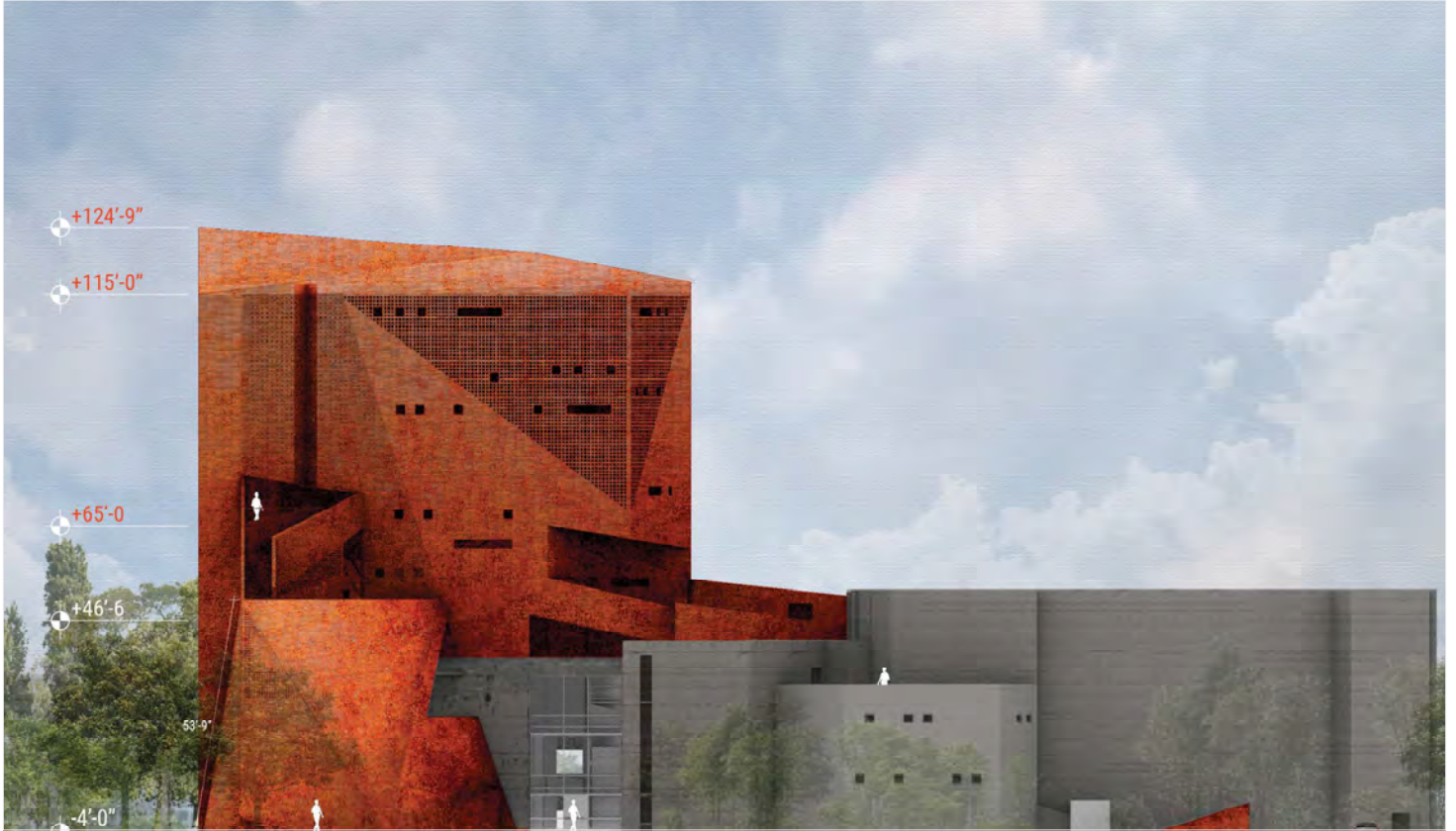
NAFDEC Cinema,
Islamabad

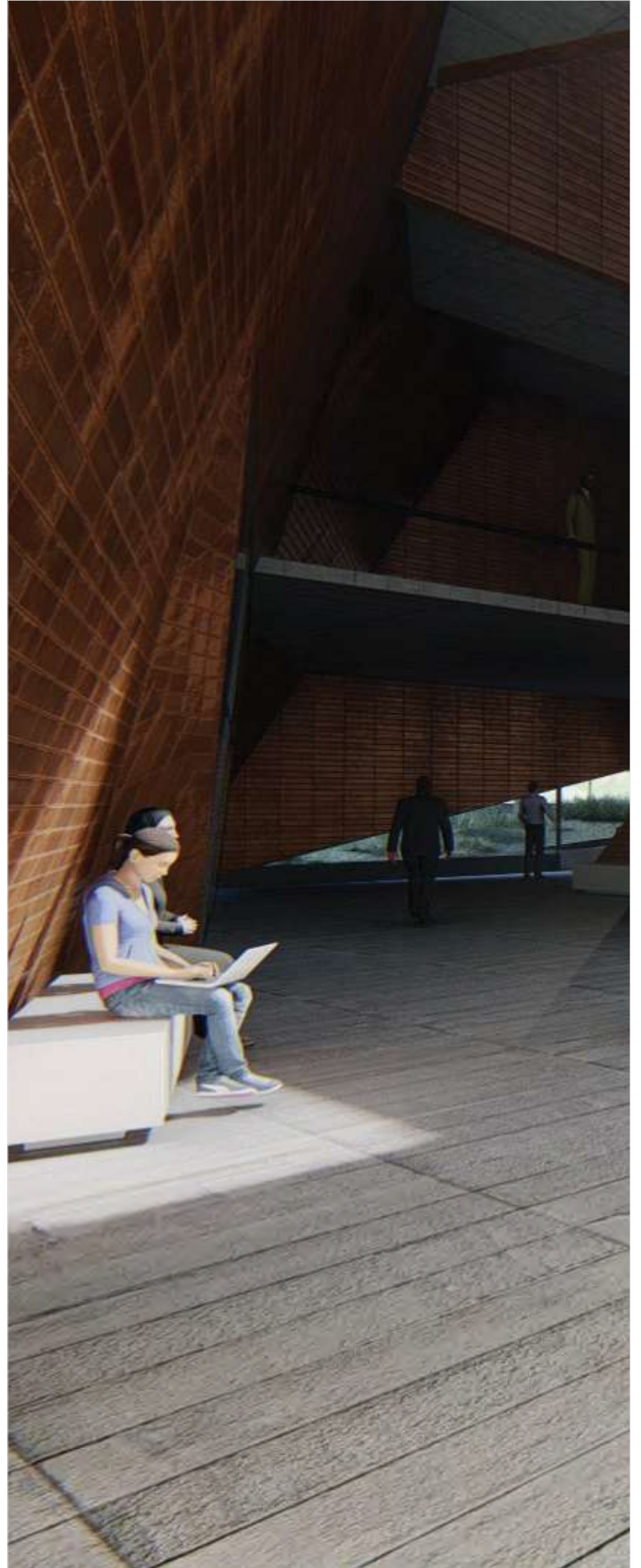
Enduring Memory

The goal of this thesis was to provide a communal space that uses the memory of a city to explore the dichotomy between “Timelessness” & the inherent obsolescence of architecture. The aim was to produce an architecture of endurance that goes beyond novelty, by emulating both innovation as well as a fundamental experience of space that stands self-uncontradicted.











FAMILIARITY

IN ARCHITECTURE

Aleena Samir Khokhar

B.Arch 2015

akhokhar.barch15sada@student.nust.edu.pk

Thesis Advisor: Ar. Mian Muhammad Naseer

Building Program:

Vocational Training and
Healthcare Center

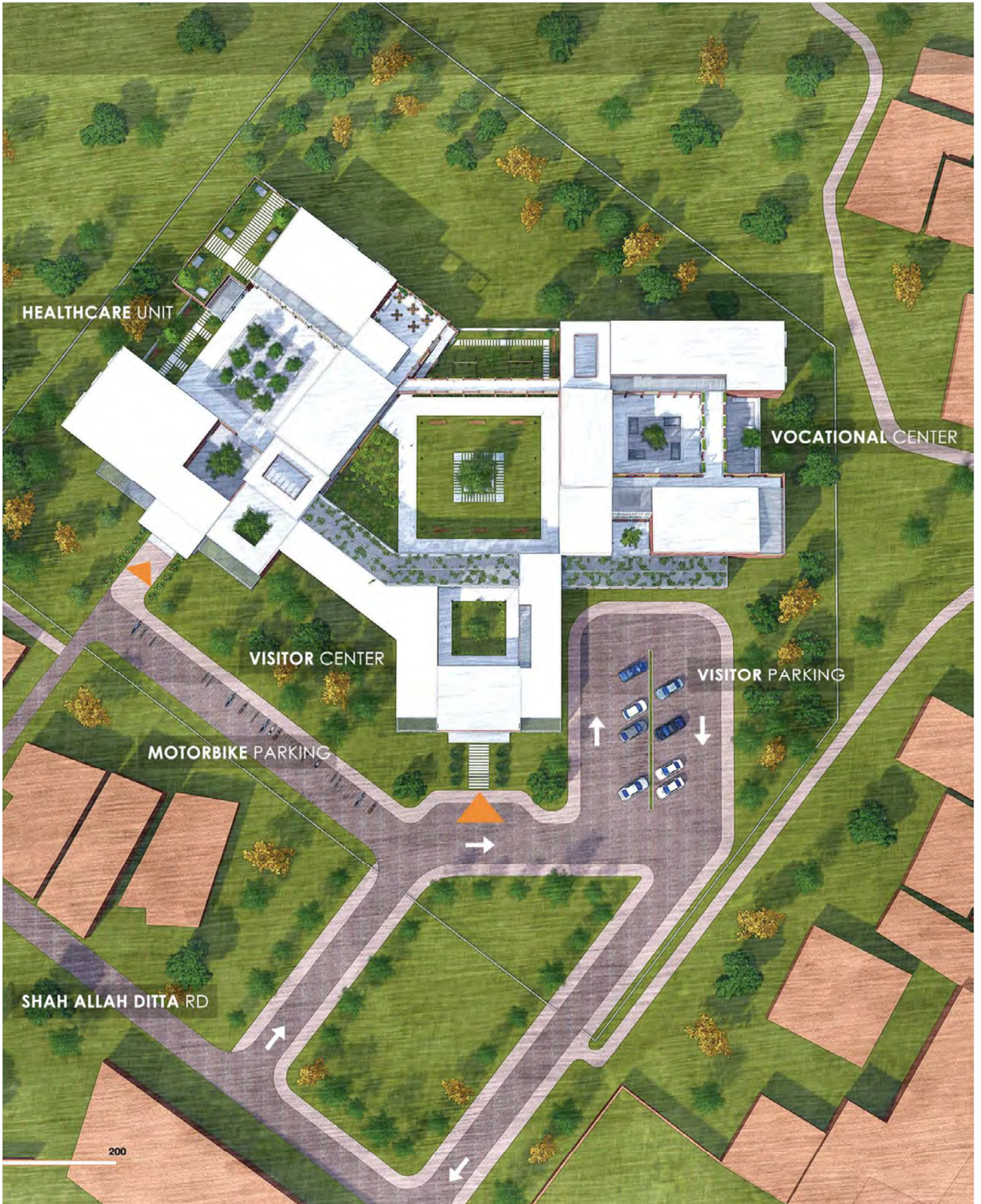
Site:

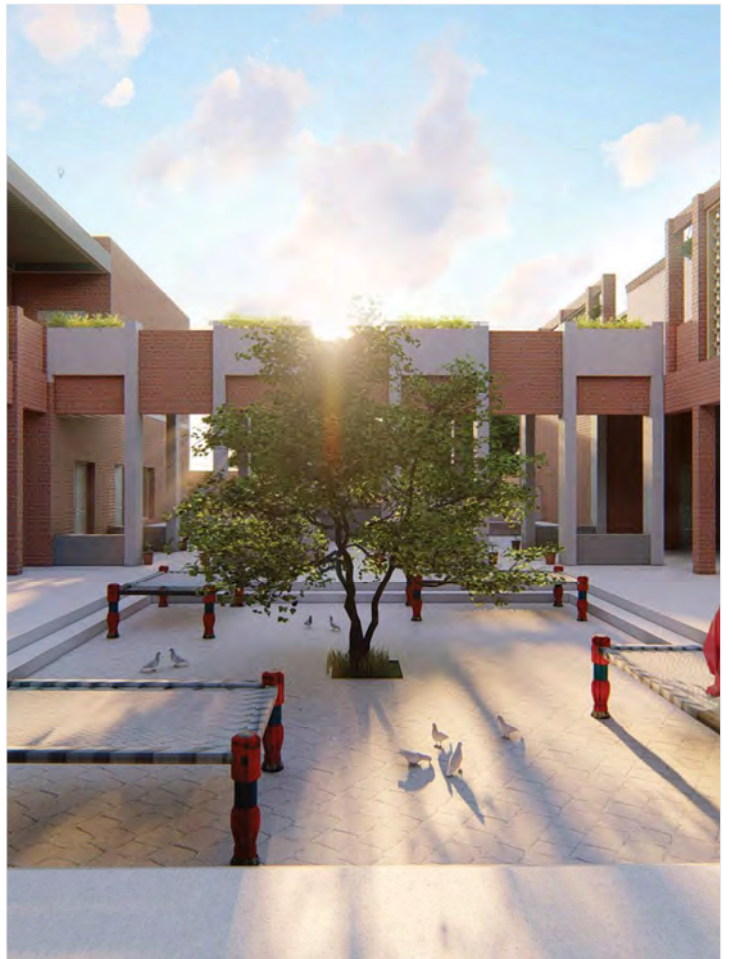
Mehrabadi, Islamabad

**Familiarity in
Architecture**

This thesis is an investigation of architecture as a tool to socially and economically empower the women of Mehrabadi community for their welfare and uplift in society.











ARCHITECTURE AS CELEBRATION OF SPIRITUALITY AND ART

Sameen Javed

B.Arch 2015

sameen_javed96@outlook.com

Thesis Advisor: Ar./Plnr. Sikander Ajam Khan

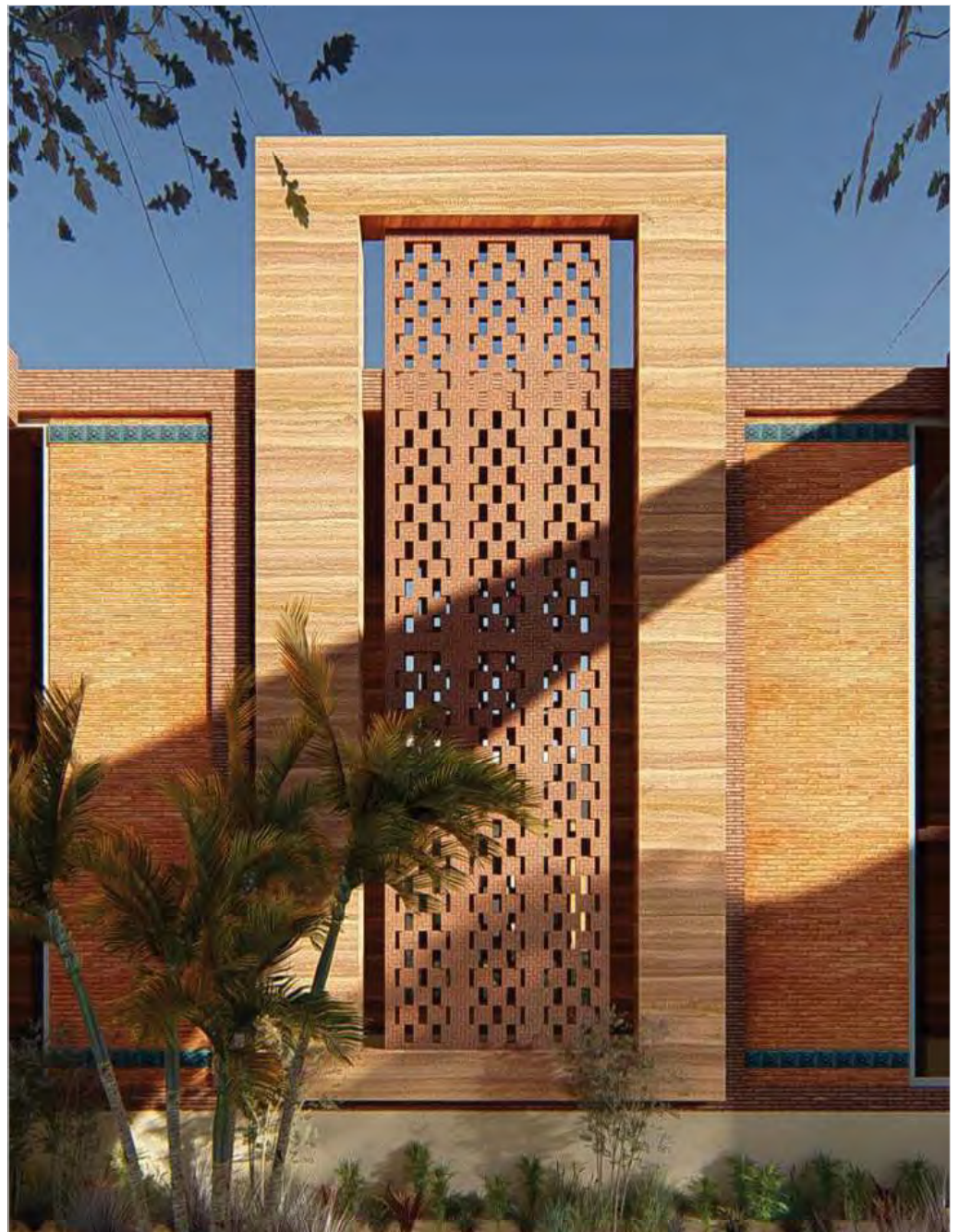
Building Program:

Ethnic complex for exploration and revival of spiritual/mystical artistic practices

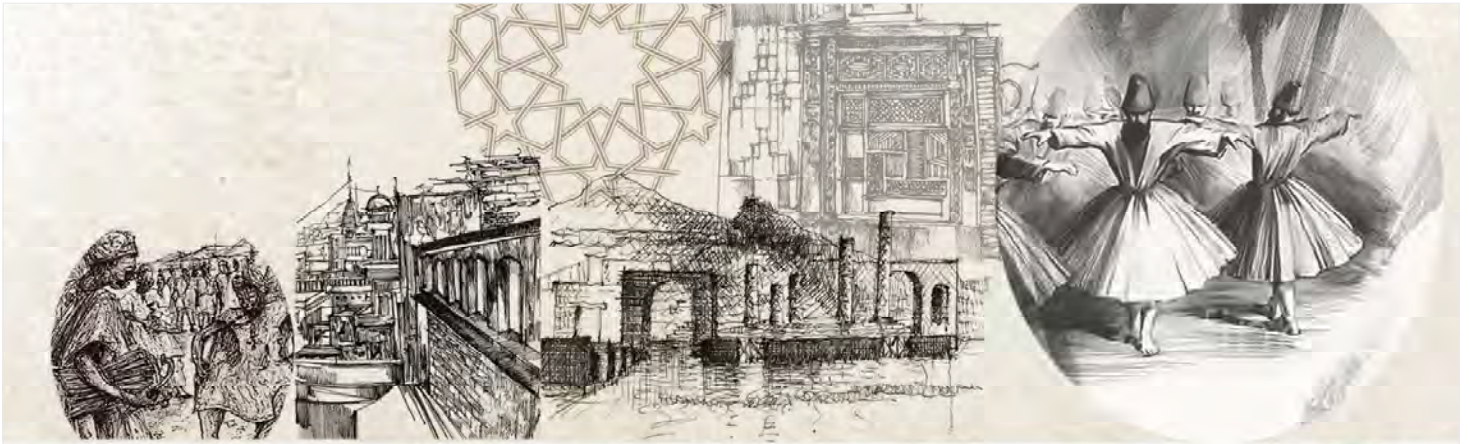
Site:

Qilla Kohna, Multan

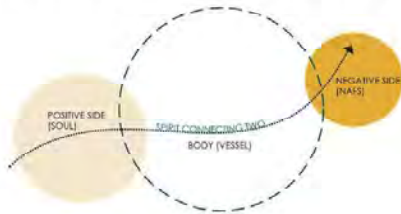
This thesis aims at re-activation of spaces that enfold spirit of mystical practices to promote cultural dimensions of Sufism by forming a dialogue between spiritualism, culture, context and architecture.



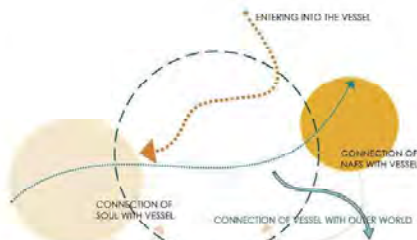




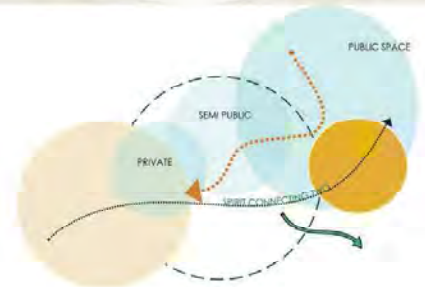
CONCEPTUAL TRANSLATION



1-BASIC IDEA OF SPIRITUAL CENTER OF HUMAN BODY

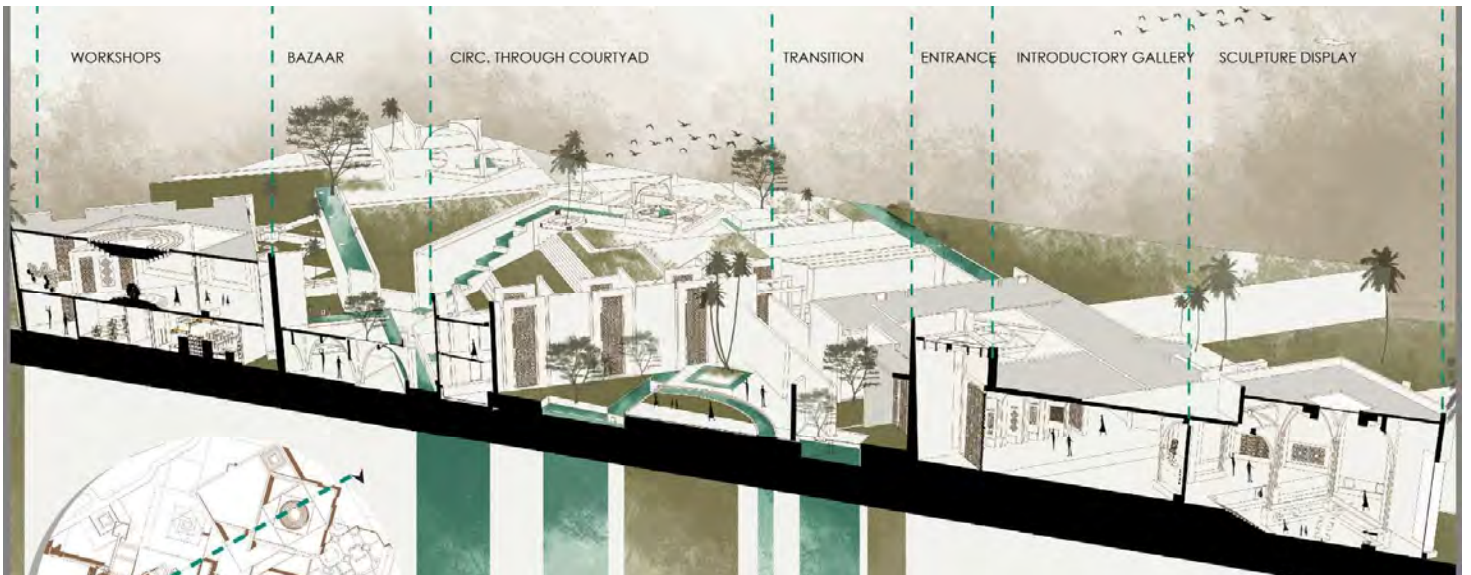


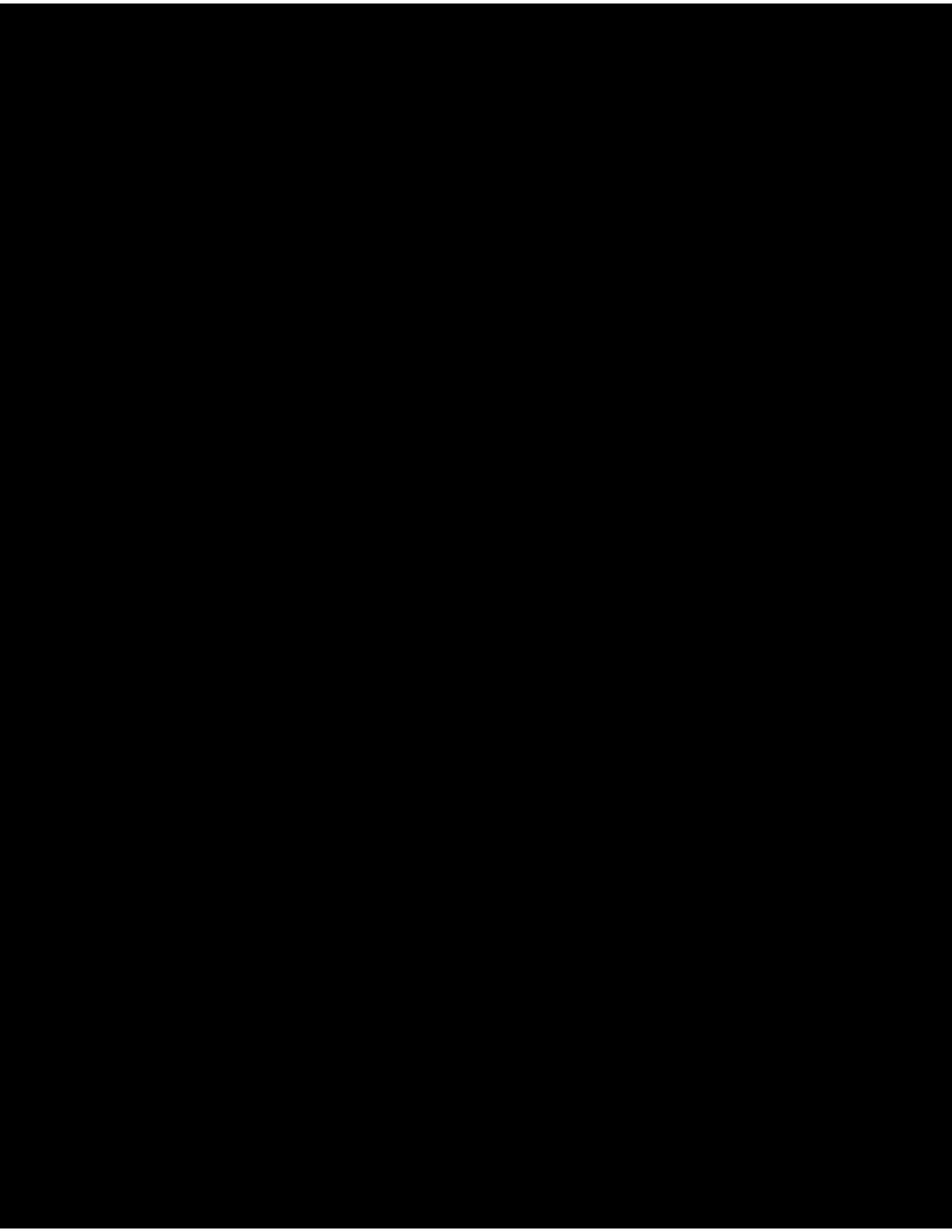
2-CONNECTION OF SOUL AND NAFS WITH BODY AS COUNTERPARTS



3-ENTERING INTO THE SPIRITUAL CENTER THROUGH LAYERS OF PUBLIC INTERACTION







GUEST LECTURES

SALMAN BEYG



CONSERVATION IN ASIA: THE AKCSP EXPERIENCE

28 . 02 . 2020

Salman beg has been the chief executive officer of the Aga Khan Cultural Service Pakistan since October 1998. He has a multifaceted background and a diverse education, which includes a quarter century in the army. He holds masters degree from the United States Army Command and General Staff College Fort Leaveworth, and Lahore University of Management Sciences.



PAOLO ROSELLI

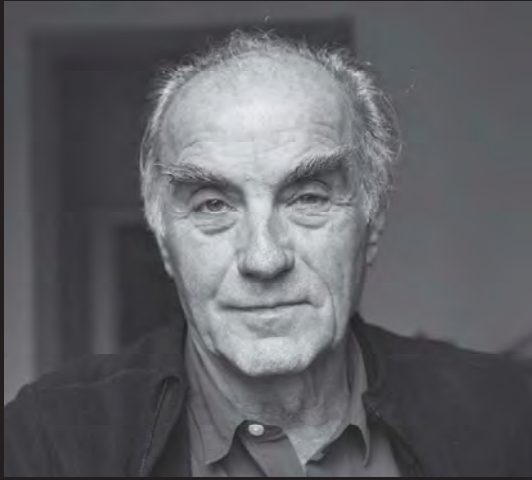
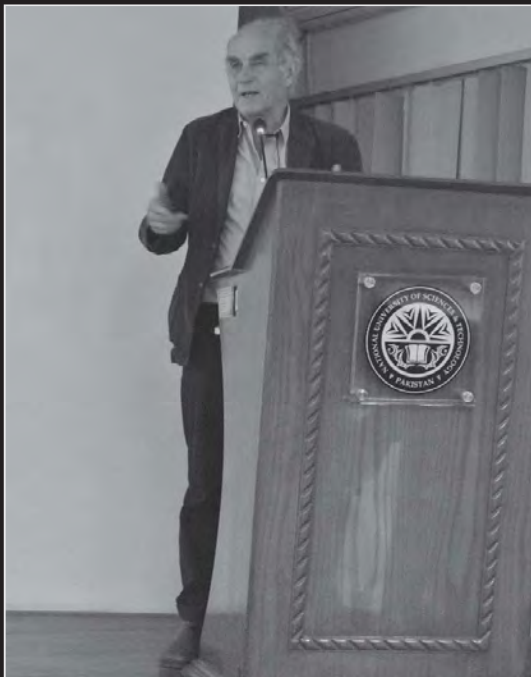


IMAGE IN ARCHITECTURE

06 . 02 . 2020

One of the most outstanding architectural photographers of his generation, Paolo Roselli was introduced to photography while studying for a degree in architecture at Politecnico di Milano. His interest in architectural photography evolves along diverse trajectories: from the works of contemporary architects to the masters of modern architecture and the history of architecture.



VICKY CLARK



WORKING TOWARDS A NEW NORMAL

26 . 11 . 2019

Dr Vicky A Clark is an independent curator and writer based in Pittsburgh. She was curator of the Pittsburgh Center for the Arts from 1996 to 2002 and served in a number of positions at the Carnegie Museum of Art (curator of education, then director of publications, then associate curator of contemporary art) from 1981 to 1996. She was named one of the 1000 women in Mirabella magazine.



WEBINARS

ALESSANDRO VILLA



ALESSANDRO VILLA

Architect, alternates design activity with teaching at the Design Faculty of Politecnico di Milano and at Interior Design master classes. graduated with honor at the Faculty of Architecture of Politecnico di Milano, course of Industrial design and Furniture.

MAKERS, DESIGNERS & MINDFUL OBSERVERS 29 . 06 . 2020

 NUST Webinar Series 2020 

Makers, Designers & Mindful Observers
Didactics of Design in a Post-COVID World

ARRANGED BY
NUST SCHOOL OF ART DESIGN & ARCHITECTURE (SADA),
H-12, ISLAMABAD

SPEAKER
Mr Alessandro Villa
Design Faculty,
Politecnico di Milano

**ZHIANG
JIANLONG**



ZHANG JIANLONG
Professor / Department of Architecture
Chair / Foundational of Architectural
Design
College of Architecture & Urban
Planning, Tongji University, China.

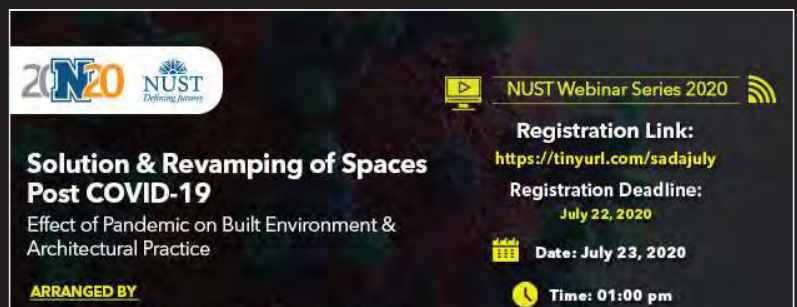
&


**KALEEM
SIDDIQUI**



KALEEM SIDDIQUI
Renowned practicing architect.
B-Arch. University of Engineering
and Technology, Lahore Pakistan,
M.Sc Human Settlement Planning
and Development, Asian Institute of
Technology Bangkok, Thailand.

SOLUTIONS AND REVAMPING OF SPACES: POST COVID-19 22 . 07 . 2020



2020  **NUST**
Delivering Justice

NUST Webinar Series 2020

Registration Link:
<https://tinyurl.com/sadajuly>

Registration Deadline:
July 22, 2020

Date: July 23, 2020

Time: 01:00 pm

ARRANGED BY

**Solution & Revamping of Spaces
Post COVID-19**
Effect of Pandemic on Built Environment &
Architectural Practice

**ZAEEM
SHIKO**



ZAEEM SHIKO
Master of Business Administration,
in Marketing, Allama Iqbal Open
University
Director, Advance Industrial
Materials, Guangzhou, China

TECHNOLOGICAL SHIFT IN ARCHITECTURE 31 . 08 . 2020

**Technological Shift in
Architecture & Design**

ARRANGED BY
NUST SCHOOL OF ART, DESIGN & ARCHITECTURE (SADA)
H-12, ISLAMABAD

SPEAKER
Mr Zaeem Shiko

NUST Webinar Series 2020

Link to Webinar:
<https://tinyurl.com/yy3qpmr8>

Registration Deadline:
August 30, 2020

Webinar Date: August 31, 2020

Webinar Time: 01:00 pm

**NAEEM
IQBAL**



NAEEM IQBAL
19 years of experience in IT/
Technology Management/Contract
& Project Management.
Project manager at NADRA

UNLOCK YOURSELF - HAPPINESS & WELLBEING 01 . 09 . 2020

**SADA WEBINAR SERIES
UNLOCK YOURSELF**

THEME: HAPPINESS & WELL-BEING
SEPTEMBER 1ST, 2020 | 12PM - 1PM

SPEAKER
NAEEM IQBAL
PROJECT MANAGER AT NADRA
HAPPINESS MENTOR

WORK SHOPS

C. ABDI GUZER



FACULTY DEVELOPMENT WORKSHOP

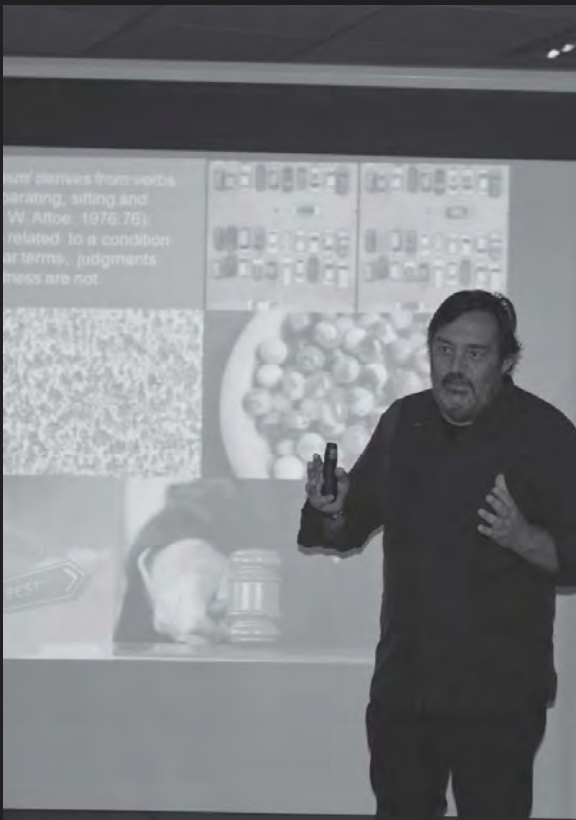
21-24 . 11 . 2019

The second in a series of workshops held at SADA in association with PCATP. Main speaker was Dr Abdi Guzer from METU Ankara. He has a wide experience in teaching the 4th year Design Studio at METU, and has a Doctorate in architectural criticism. His major fields of interest includes architectural design; architectural theory and criticism; education buildings; media; housing.





The workshop targeted faculty up to Assistant Professor level of SADA, and 20 other Architectural schools from all over the country. The subject of studio handouts, and studio criticism were targeted to improve the competencies of faculty in delivering quality evaluation, as mentors, as critics, to improve studio teaching, deliverables, skills and competencies.





AMY BRIER

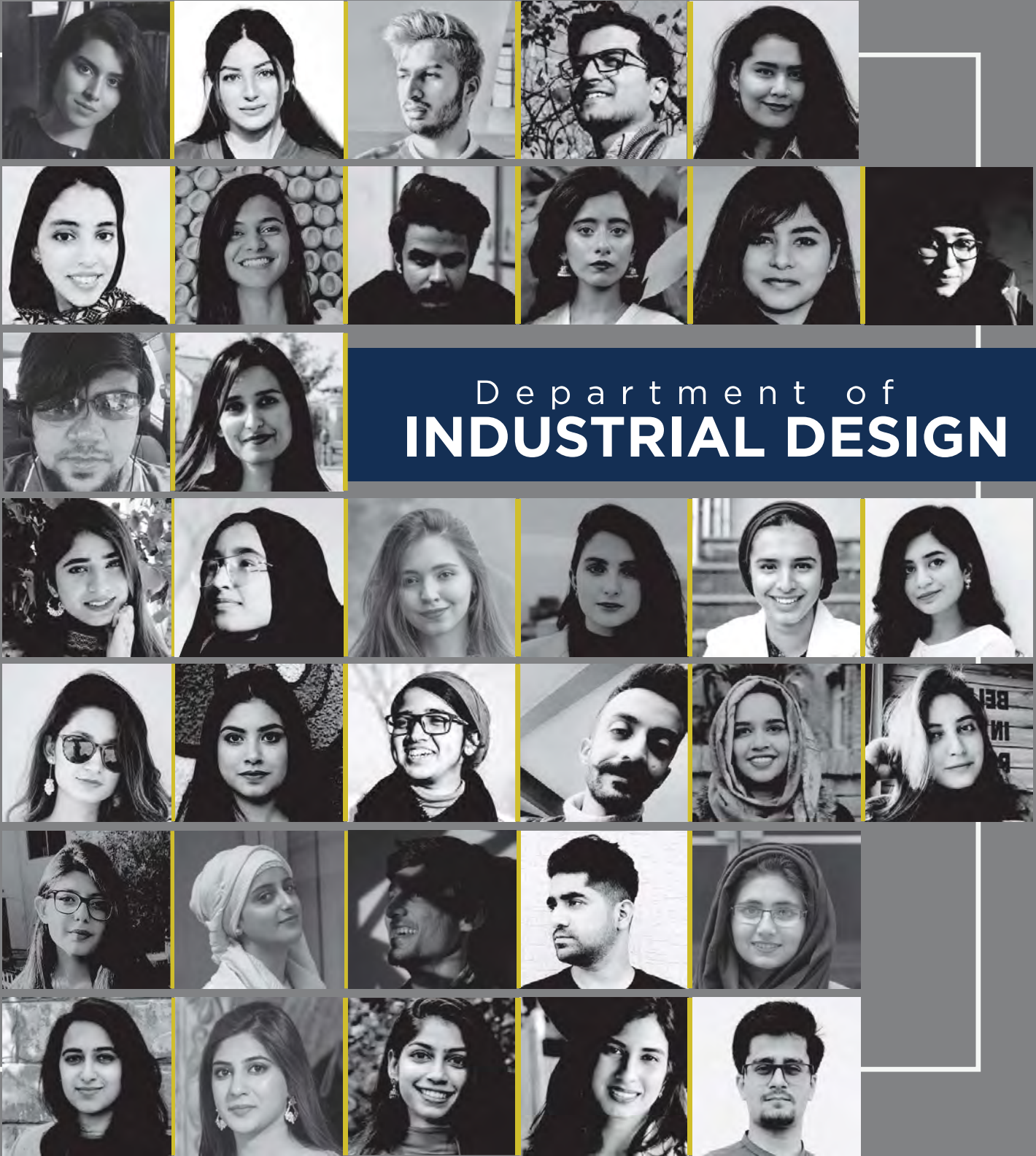


STONE CARVING WORKSHOP

15 . 11 . 2019

Ms. Amy Brier is a highly-skilled carving artist, sculptor, and educator with international training (conversant in French and German) and understanding of the intricacies of stonecarving. She is also the Founder and Director of the seventeen-year-old Indiana Limestone Sculpture Symposium. Her works are found in Indiana University, in New York, and in private and corporate collections.





Department of
INDUSTRIAL DESIGN



C O V E

Tanjeena Asif

B.ID 2016

tanjeena.asif-id16@sada.nust.edu.pk

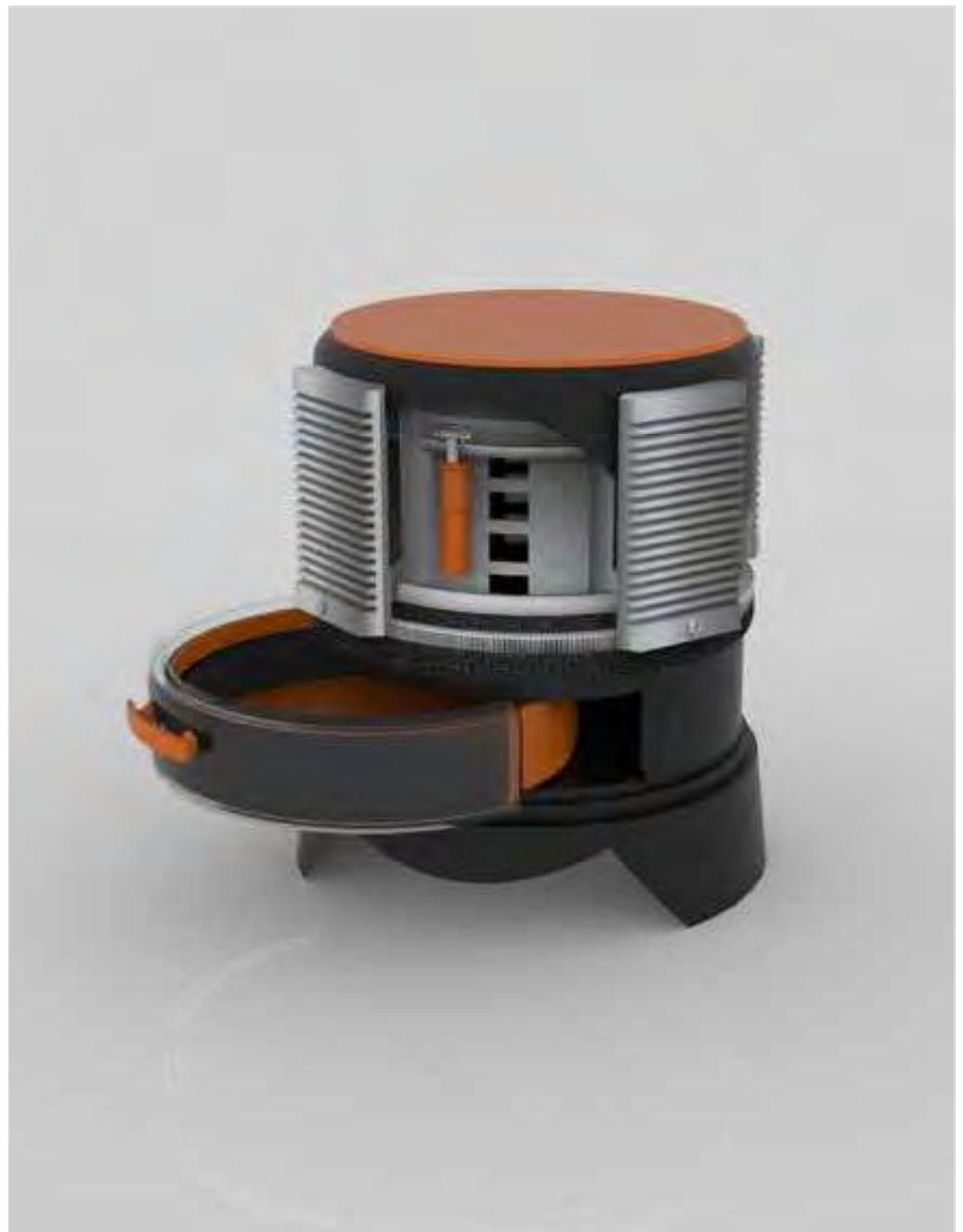
Instructor: Jawwad Zaidi

Project Title: Cooking Stove promoting sustainable lifestyle.

Category: Responsible Consumption and Production

Cove

Research shows that one of the pertinent problems of the refugees living in northern areas of Pakistan, is the absence of daily life necessities such as electricity and gas. This makes them resort to cutting down trees for their cooking purposes. To bridge the gap, a product designed to help these people get rid of their outdated methods. A cooking stove that uses biomass for power. The aim is to make our product as sustainable and user friendly for these people. It will allow them to cook without any hassle, while being environmentally conscious by utilizing the waste material.











A R T A C T

Umnah Aslam

B.ID 2016

umnah.aslam-id16@sada.nust.edu.pk

Instructor: Khadija Zia

Project Title: An interactive assistive tool for visually impaired.

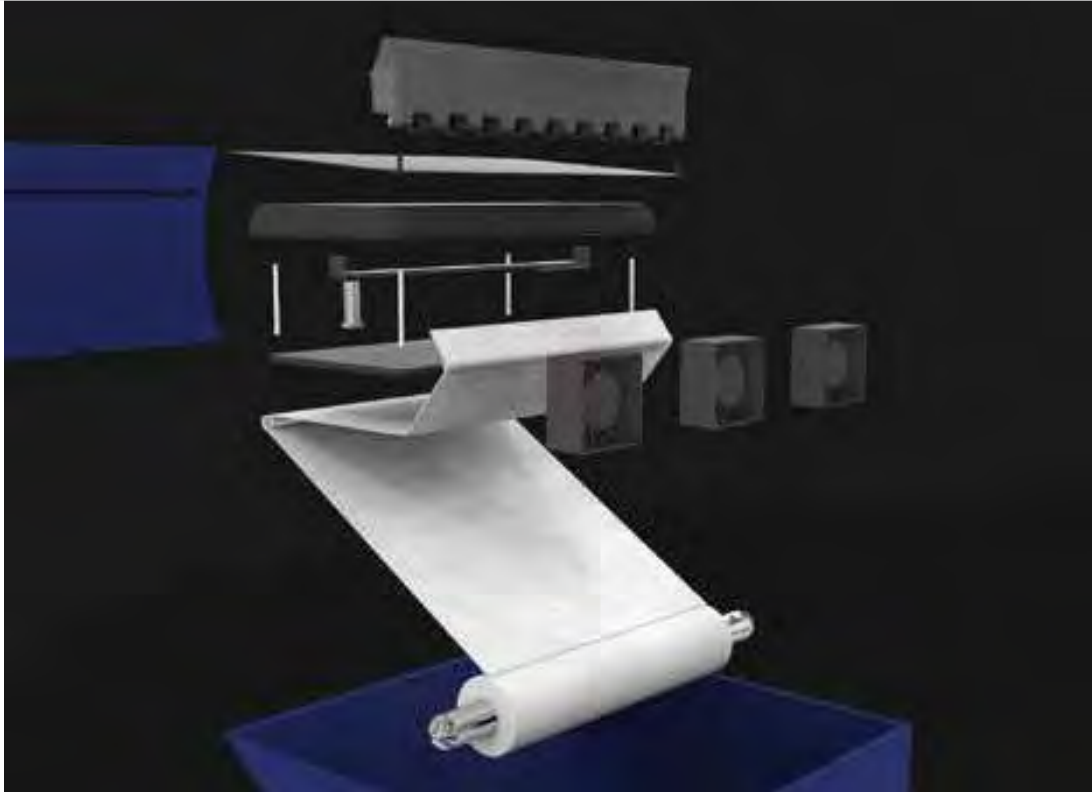
Category: Industry, Innovation and Infrastructure

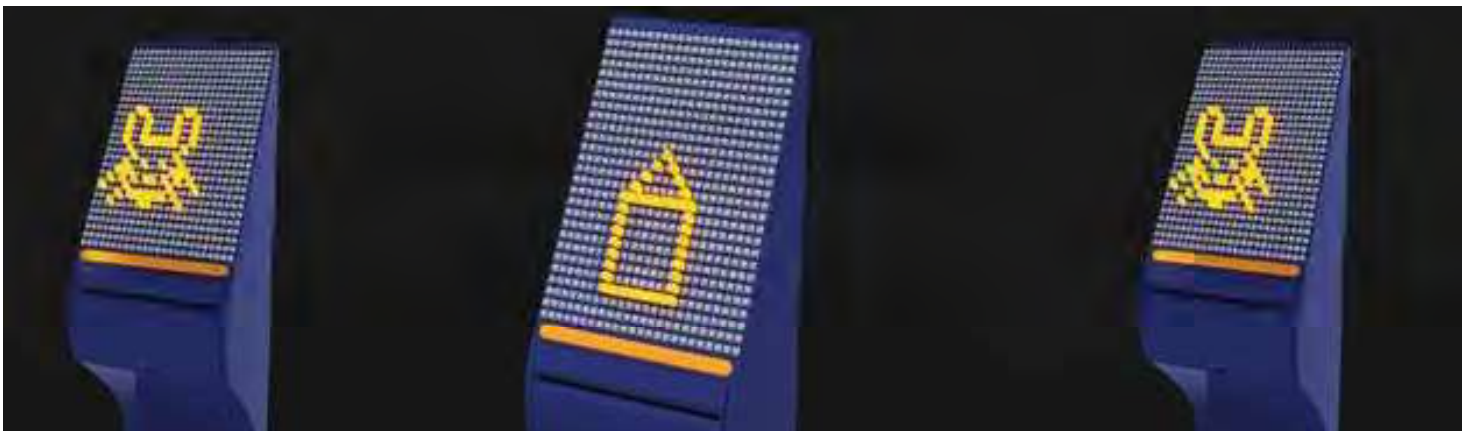
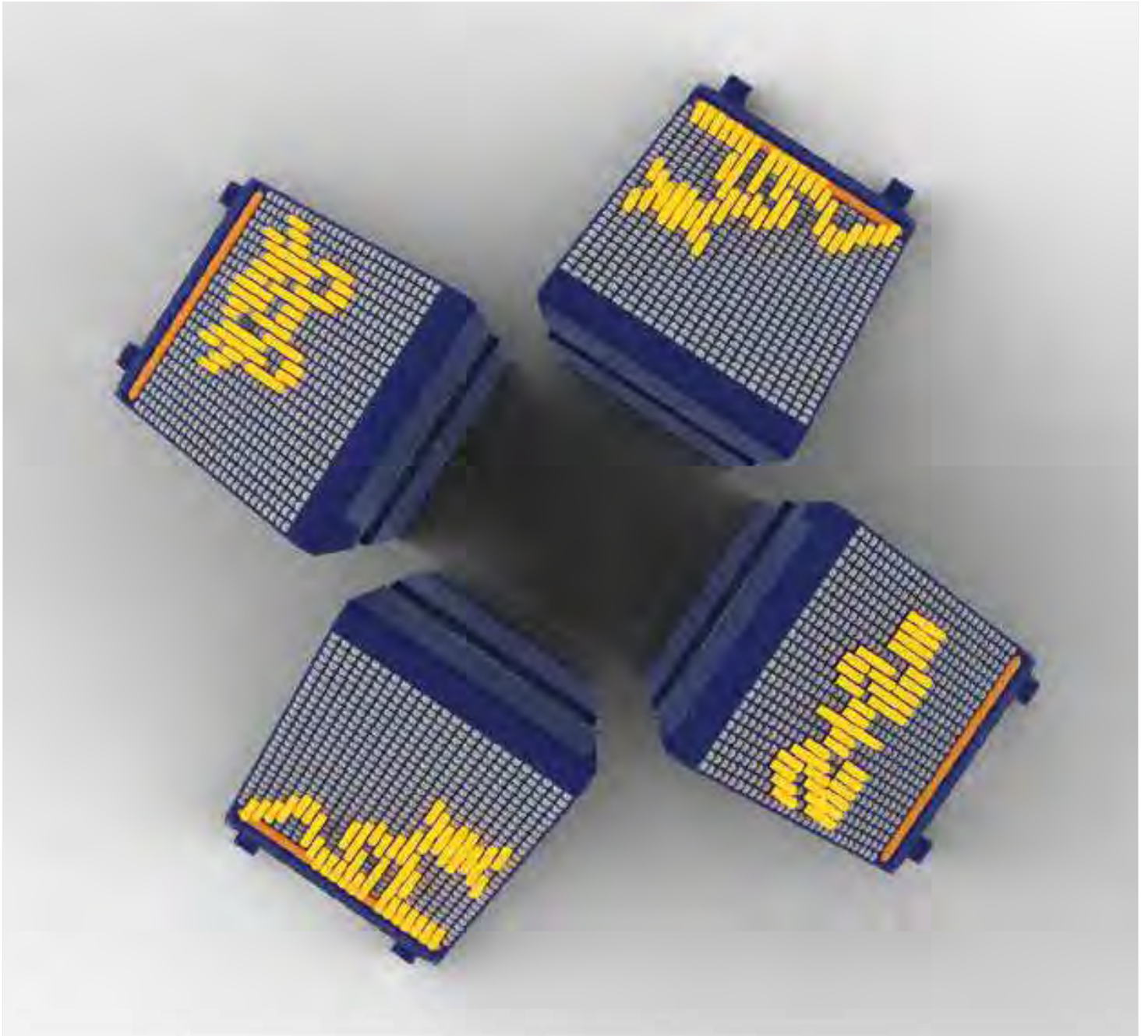
Artact-

The project highlights a tactile growth experience for the visually impaired. It focuses on developing and providing a design solution for a visually impaired child that helps him/her in communicating their ideas and making an understand the diversity of visual media. Through the use of this product my user is introduced to a new domain of experiences. Allowing them to engage with a previously alien concept of visual communication and learning the skill of visual arts like a normal child during his/her developmental years.











PLUS ONE

Husnain Batool

B.ID 2016

husnain.batool-id16@sada.nust.edu.pk

Instructor: Khadija Zia

Project Title

Flood Rescue Vehical

Category:

Transportation

Plus One

The aim of this project is to propose a solution appropriate for the local context and its available resources. It will help in enhancing the efficiency of existing rescue operations by eliminating threat to the safety and security of rescuers and flood affecties. This project focuses on strengthening flood rescue operations by supporting flood survivors as well as rescuers during assisted flood rescue missions.











C E V I

Asad Ullah

B.ID 2016

akhan.id16sada@student.nust.edu.pk

Instructor: Fowad Iqbal

Project Title:

Smart faucet made of enhanced materials to make everyday experience better

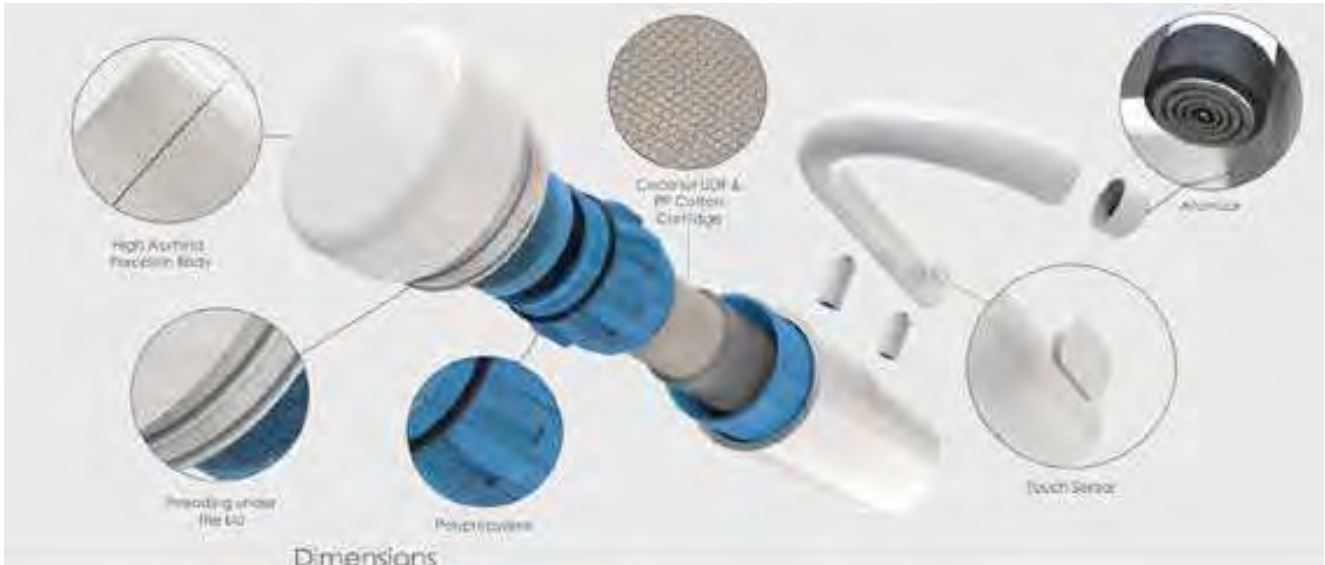
Category:

Sanitaryware

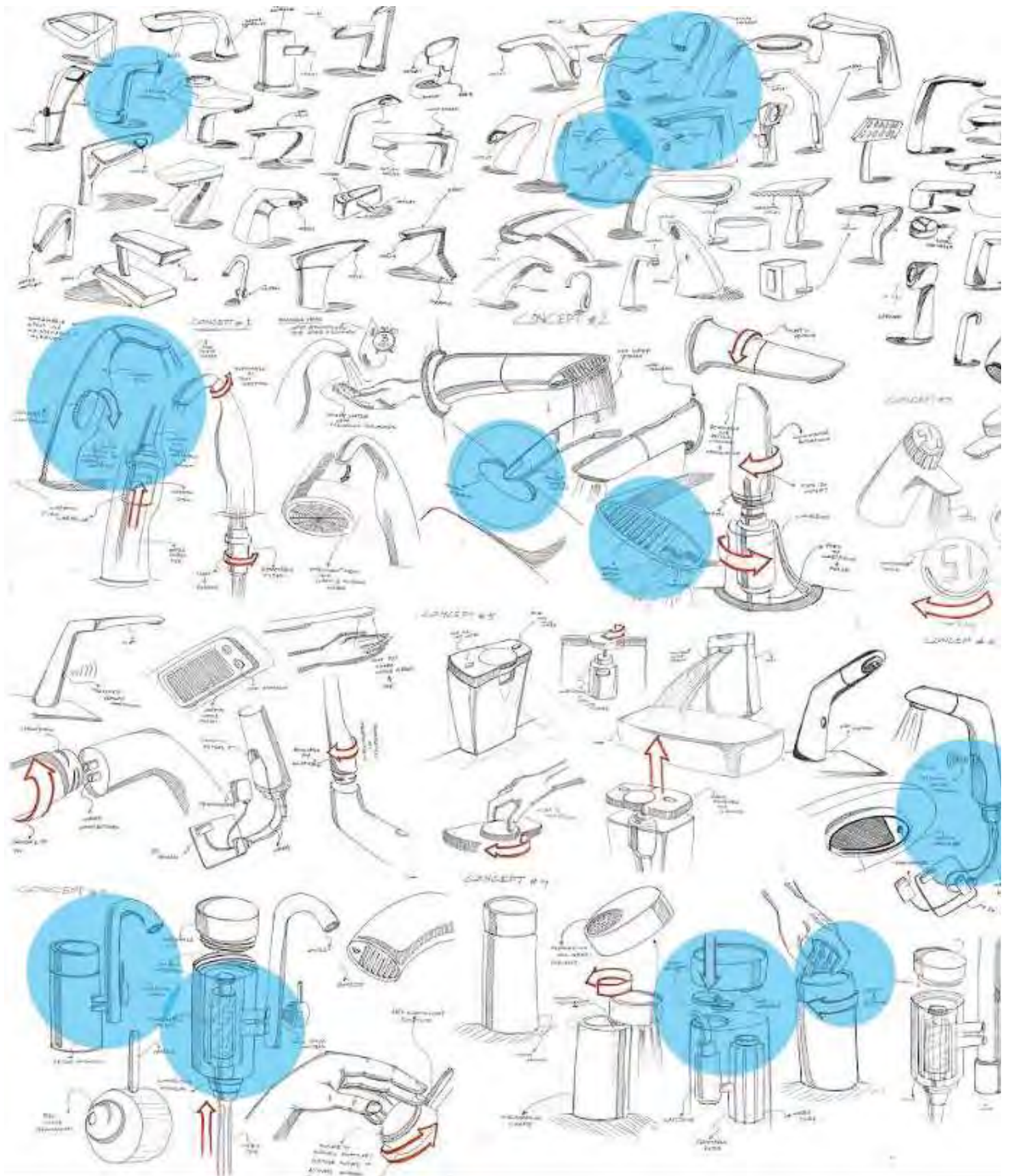
CEVI

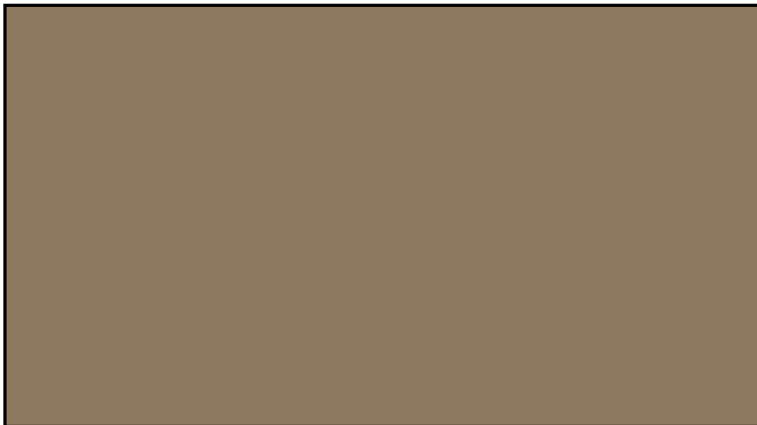
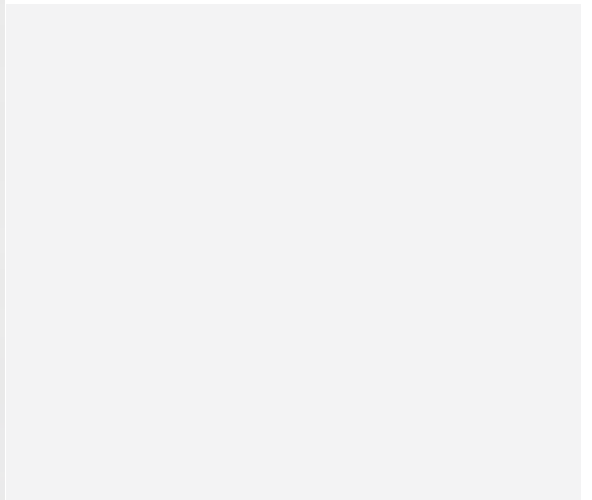
Smart faucet made of enhanced materials to make everyday experience better
Faucets have become an essential part of human life. Running water is considered as a necessity that every living human being has a right to. This report talks about how it should be made better in terms of materials, hygiene, intelligence, and design elements and about the problems faced by users while interacting with this simple but very important everyday part of human life, and about the proposed solution.





DESIGN DEVELOPMENT







I N F U S E R

Muhammad Muneeb Idrees

B.ID 2016

muhammad.muneeb-id16@sada.nust.edu.pk

Instructor: Fowad Iqbal

Project Title:

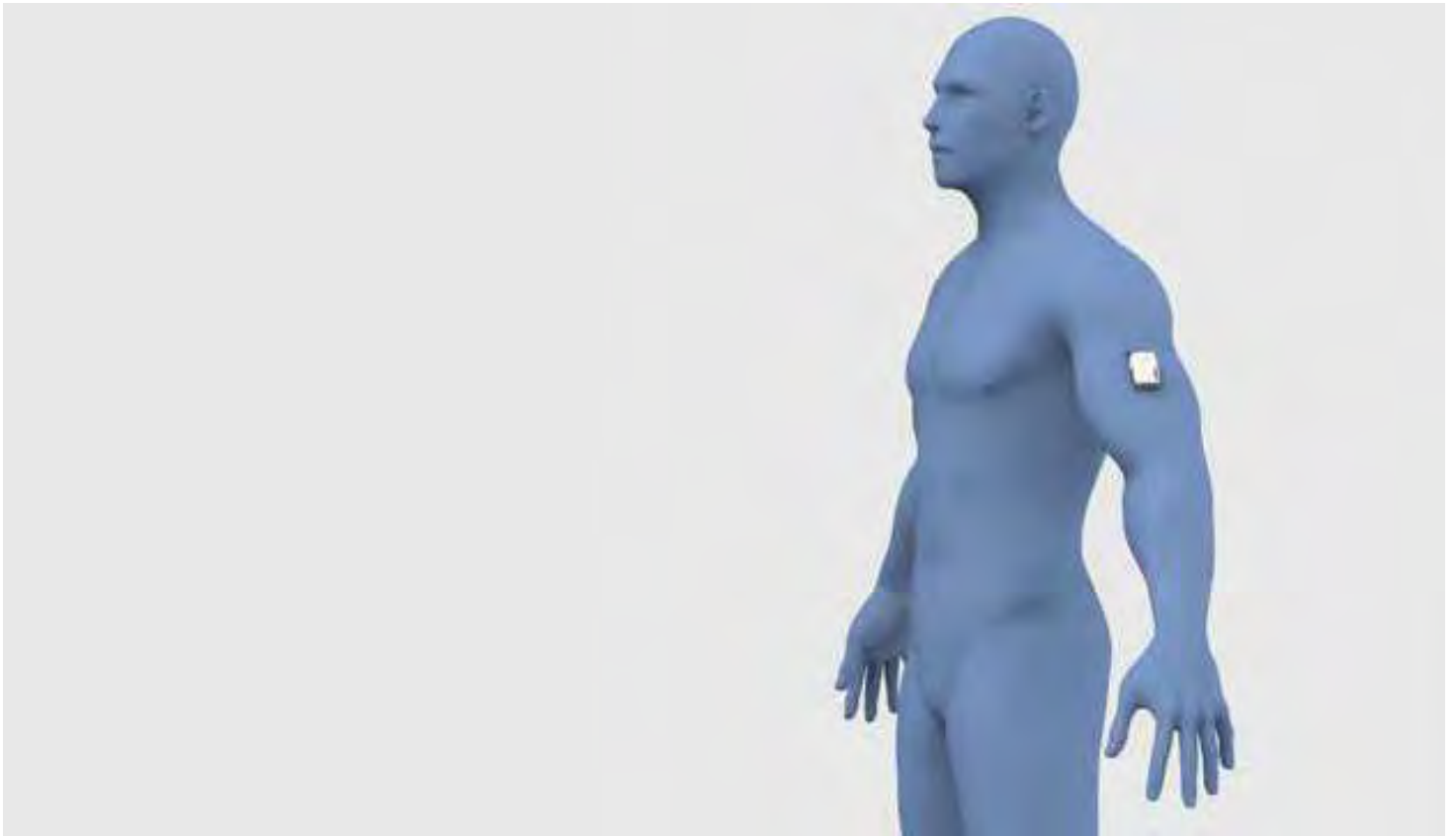
A smart body worn insulin self-injecting device designed for the diabetic patients in Pakistan.

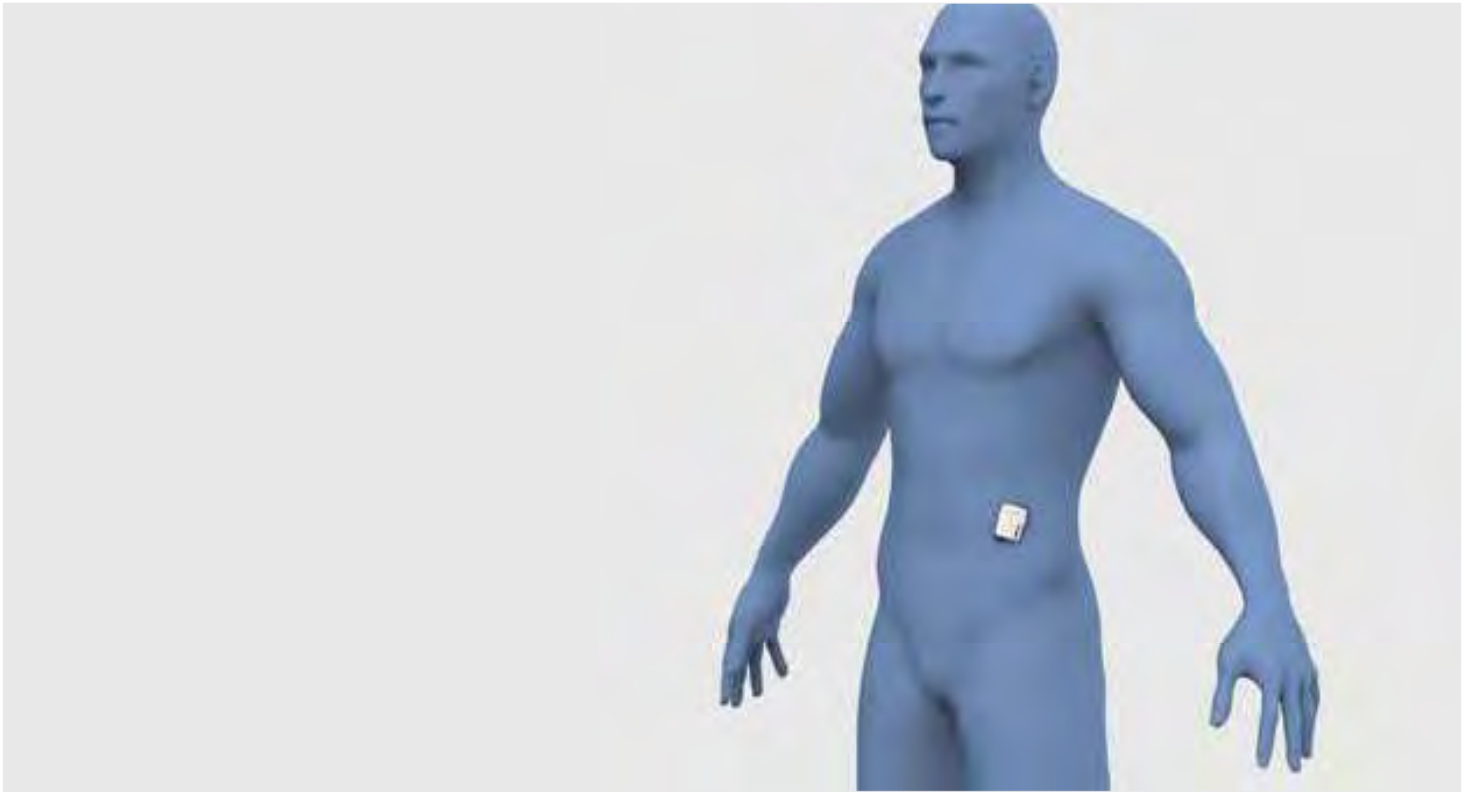
Category: Good Health and Well being

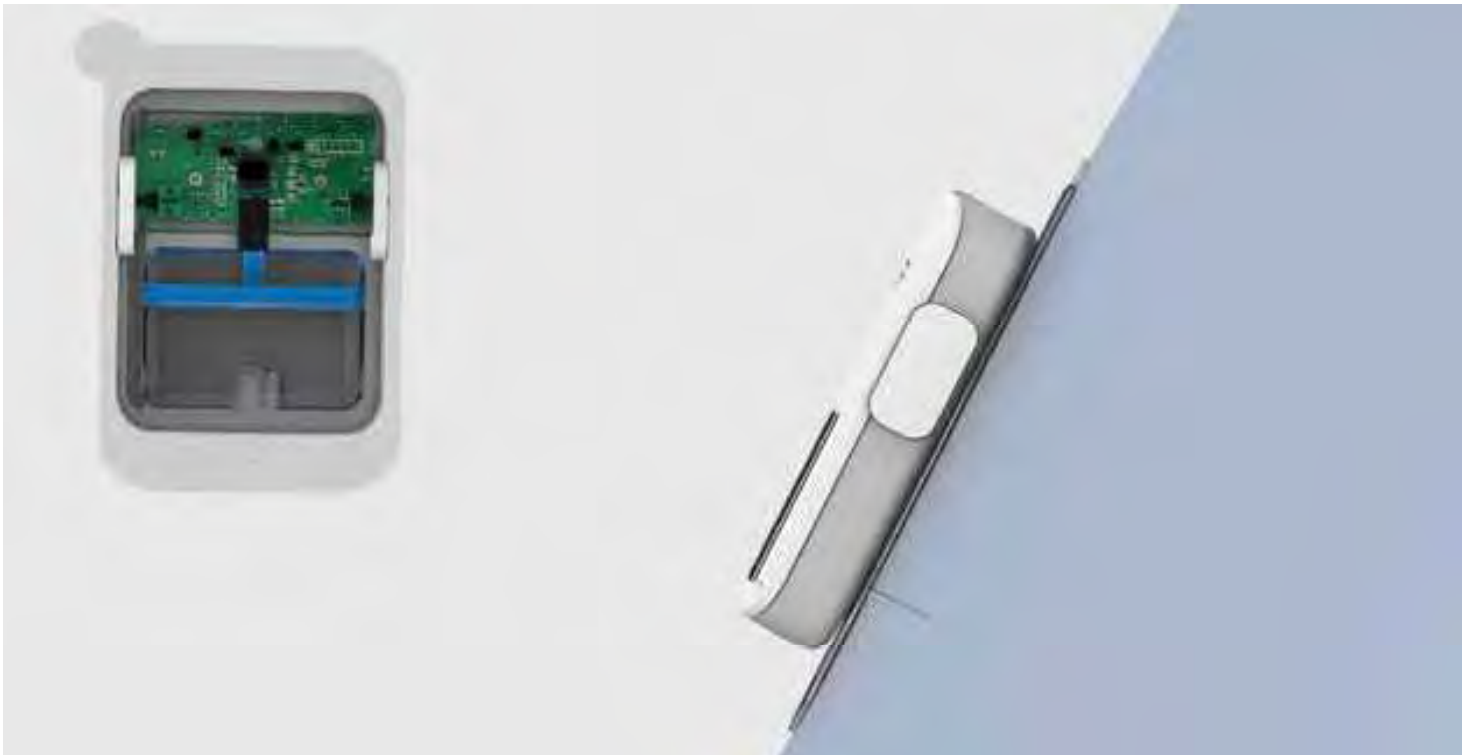
Infuser

In Pakistan, more than 30 million adult population are diabetic patients. Diabetes is a disease in which the human body organ pancreas produces very little or almost no insulin. This natural hormone is responsible for controlling Glucose level in the blood. There are several ways to combat this. One way is hand pumps which poses a lot of problems for the patient who requires insulin one to three times everyday. This project targets at the existing solutions to the insulin injection, problems they pose during their usage, current trends of medical devices, eventually leading to the final solution in terms of a product.











K A M A K

SUSTAINABLE FOOD PACKAGING

Zoiba Noor

B.ID 2016

zoiba.noor-id16@sada.nust.edu.

Instructor: Khadija Zia

Project Title:

A biodegradable and compostable approach towards Emergency and Food Packaging

Category:

Packaging, Sustainability

Kamak

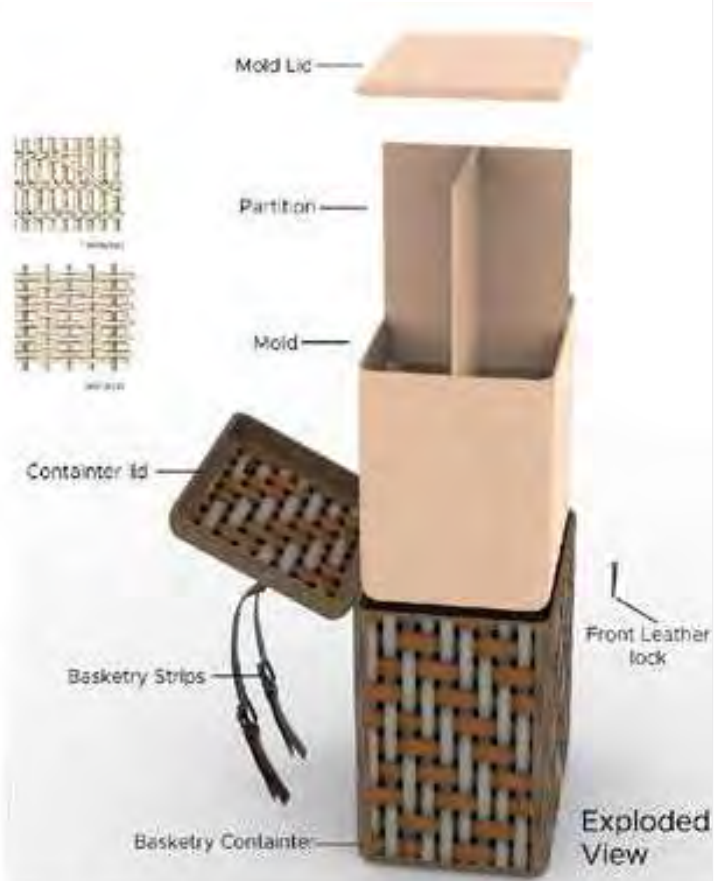
Pakistan is one of the countries which is blessed with natural resources as well as agricultural lands. With that comes the climate extreme conditions in the same region. Earthquakes, floods, droughts Tsunami and cyclones are the types of natural disasters Pakistan faces once in a year or so. As to mentioned the most dangerous season is From Mid of July to end of September the season of Monsoon is one of the most disastrous seasons in the country.







Side View







BREEZ CLEAN

Mehak Fatima Chaudhry

B.ID 2016

mehak.chaudhry-id15@sada.nust.edu.pk

Instructor: Fowad Iqbal

Project Title:

Working towards a better environment by air purification.

Category

Air Pollution

Breeze Clean

Poor air quality is the result of a growing industrialization that pollutes the air we breathe with contaminants like industrial dust, and other particles from traffic. The exposure to those air particles can cause short-term health effects like eye, nose, throat and lung irritation, coughing, sneezing, runny nose and shortness of breath. It also can affect lung function and worsen medical conditions. The product that I designed caters to this problem and improves the air quality in the air. The product is placed on the roof of the cars and takes in the air pollutants and filters it out.





SADA FACULTY MEMBERS

INDUSTRIAL DESIGN

JAWWAD ZAIDI
SABAHAT NAWAZ
MAIMUNA AKRAM
SANIA SAMAR
SABOOHI SARSHAR
KHADIJA ZIA
SHAHZAIB RAO
FOWAD IQBAL
AMSAL MUMTAZ
MANAL ABDULLAH
MAHNOOR KHAN

ARCHITECTURE

AR. SAFI ULLAH
AR. MIAN NASEER
AR. SEEMA ANDLEEB NASIR
AR. SALMA BANO
AR. NADIA USAMA
AR. ZARA SHAFIQ BHATTI
AR. ZARA FAROOQ
AR. ZAINAB JAVED
AR. ABDULLAH OMER
AR. FAIZAN AHMED
AR. FARHEEN ASIM
AR. MAHEEN ABBASI
IMRAN ULLAH HUNZAI
AIZA MEHMOOD

NATIONAL UNIVERSITY OF SCIENCES AND TECHNOLOGY

H-12, Islamabad Pakistan
info@sada.nust.edu.pk
+92-051-90855401

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