



## **CURRICULUM VITAE**

**Biplob Kanti Biswas**

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**Voice:** +8801723034576,

Present Address: CUET teacher's dormitory, Pahartali, Thana: Raozan, District: Chittagong, BANGLADESH

Permanent Address: Doshani Baroari Puja Mondir, Thana: Bagerhat Sadar, District: Bagerhat, BANGLADESH

Birth Date: 1989/12/21

Nationality: Bangladeshi

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A **Graduate Architect** from Bangladesh University of Engineering & Technology (BUET) and a **Master's of Engineering** (division of Human Environmental System) from Hokkaido University of Japan, with a vision to create a new sustainable built environment, admiring historical evidences by preserving heritage.

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### **Professional Profile: Expertise & Skill**

- Creative expertise in Architecture, Heritage Conservation, Environmental Engineering, Planning, Urban Design, Interior Design and Economically Sustainable Design.
  - Proven high level of skills in Microsoft office, Auto CAD, 3d Studio Max, Blender, Lumion, Unreal Engine, Adobe Photoshop, Adobe After Effect and Graphic Aided Software.
  - Demonstrated abilities in Project Profile Preparation, Specification, Cost Estimation, Tender Document Preparation, Construction Management, Project Report Preparation and Presentation.
  - Excellent competence in management, communication and public relation.
  - Extensive work experiences with professionals, engineers, contractors and clients.
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### **Academic Credential**

- Master's of Engineering (2016-2018) Hokkaido University, Laboratory Of Environmental Ergonomics, Faculty of Engineering, Division of Human Environmental System
  - Bachelor of Architecture (2013) Bangladesh University of Engineering and Technology (BUET)
  - Higher School Certificate (2006) Notre Dame College, Dhaka
  - Secondary School Certificate (2004) Bagerhat Govt. High School, Bagerhat
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### **Seminar & Certified Workshop:**

- Fire safety and rescue training organized by Chittagong University of Engineering and Technology, Chittagong, Bangladesh, ( 24-25/01/2015)
- Research on Heritage Conservation, the settlement of Rakhain Ethnic group at Moheshkhali, collaboration work with, Kyushu University, Japan, (20-26/03/2015)
- Conservation survey of Heritage Conservation, old structures in Chittagong region, collaboration work with, Kyushu University, Japan, (4-11/08/2015)
- Flood risk assessment and management organized by Chittagong University of Engineering and Technology, Chittagong, Bangladesh, as a part of the NICHE/BGD/081 project (29/11/2015-3/12/2015)
- Full paper presentation on Perception of thermal comfort and prediction of heat stress (PHS) due to heat gain in tropical university classroom, 2nd International Conference on "Physics for Sustainable Development & Technology" ICPSDT-2017
- BIM technology introduction and management organized by Chittagong University of Engineering and Technology, Chittagong, Bangladesh, (18/9/2019-19/9/2019)

### **Professional Experience**

□ **Junior Architect**  
Vernacular Architects

**Period: 2013/12/12 to 2014/4/5**

Job Responsibilities:

- Architectural concept development.
- Architectural design, drawing, 3d modeling and documentation preparation with table, chart, graph etc.
- Detail working drawing preparation with layout, plan, section and elevation.
- Presentation drawing preparation with illustration.
- Spatial and relational database preparation and documentation.
- Mapping/cartography preparation and digitization.
- Urban environment modeling and microclimatic simulation using Environment
- Urban space modeling and connectivity analysis using Space Syntax.
- Climatic data collection using advance data logger, data analysis and documentation.

□ **Lecturer / Assistant Professor**

**Period: 2014/4/6 to 2019/10/9, 2019/10/10 to present)**

Chittagong University of Engineering and Technology, Chittagong, Bangladesh (CUET), Department of Architecture

Job Responsibilities:

- Preparing departmental curriculum activities as a IQAC (Institutional quality assurance cell) member (April- September 2016).
- Preparing lectures on Architectural topics such as Architectural history, Architectural Heritages, Architectural design methods, Aesthetics & design and Structure & material in English medium.
- Create lesson plan and deliver lectures to students according to course instruction in English medium.
- Evaluate students' performance both in theory courses and design studios.
- Prepare course materials, homework assignments, and handouts.
- Plan, evaluate, and revise curricula, course content, and course materials and methods of instruction.
- Supervise undergraduate student's internship, and research work.
- Serve on academic or administrative committees that deal with institutional policies, departmental matters, and academic issues.
- Organize administrative work to promote students facilities of learning process.
- Provide professional consulting services to government and/or industry.

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### **Architectural Practice:**

□ Project: DPP, Project for Further Development of Chittagong University of Engineering & Technology (CUET) to Create Center of Excellence in Engineering Education & Research. 2016-2021, (476.76 crore proposal)

Position: Chief Consultant, for Architectural proposal and visualization.

Job Responsibilities:

- Architectural design, drawing, 3d modeling and documentation preparation for proposed master plan.
- 3d modeling with texture, built environment and contour lines.
- Animate the 3d models with real environment and information.
- Link: <https://www.youtube.com/watch?v=Wg3Qgq0jEC4&t=51s>

□ Project: 5 storied Boys Hostel, Sheikh Russel Hall, CUET (7,000 sqm).

Position: Chief Architect, appointed by BRTC, CUET

Job Responsibilities:

- Architectural concept development, evaluation, design, drawing, 3d modeling and documentation preparation.
- Detail working drawing preparation with proper layout plan, floor plan, detail section and elevation.
- Supervision of the project.

□ Project: 5 storied Begum Shamsen Nahar Khan Hall, CUET (6,000 sqm)..

Position: Chief Architect, appointed by BRTC, CUET and AK Khan Foundation.

Job Responsibilities:

- Architectural concept development, design, drawing, 3d modeling and documentation preparation.
- Detail working drawing preparation with proper layout plan, floor plan, detail section and elevation.
- Supervision of the project.

□ Project: Sports Complex (1,500 sqm).

Position: Chief Architect, appointed by BRTC, CUET.

Job Responsibilities:

- Architectural concept development, evaluation, design, drawing, 3d modeling and documentation preparation.
- Detail working drawing preparation with proper layout plan, floor plan, detail section and elevation.
- Supervision of the project.

□ Project: Administration Building, CUET

Position: Junior Architect, appointed by BRTC, CUET

Job Responsibilities:

- Architectural design with supervision work.

□ Project: Mujib Battery Complex (30,000 sqm). Proposed

Position: Chief Architect, appointed by Bangladesh Army

Job Responsibilities:

- Architectural concept development, evaluation, design, drawing, 3d modeling and documentation preparation.
- Detail working drawing preparation with proper layout plan, floor plan, detail section and elevation.

□ Project: Liberation Plaza (2,000 sqm). Proposed

Position: Chief Architect, appointed by Bangladesh Army

Job Responsibilities:

- Architectural concept development, evaluation, design, drawing, 3d modeling and documentation preparation.
- Detail working drawing preparation with proper layout plan, floor plan, detail section and elevation.

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### Computer Literacy

1. Design Aided Software: AutoCAD
2. 3 D Modeling Software: 3D Studio Max, Sketch up, Blender
3. Video editing Software: Lumion, Unreal Engine, Adobe After effect
3. Design Simulation Software: Space Syntax, Energy Plus
4. Graphics Aided Software: Photoshop & Corel Draw
5. Office Utility Software: MS Office Utilities (Word, Excel & Power Point)

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### List of Publication

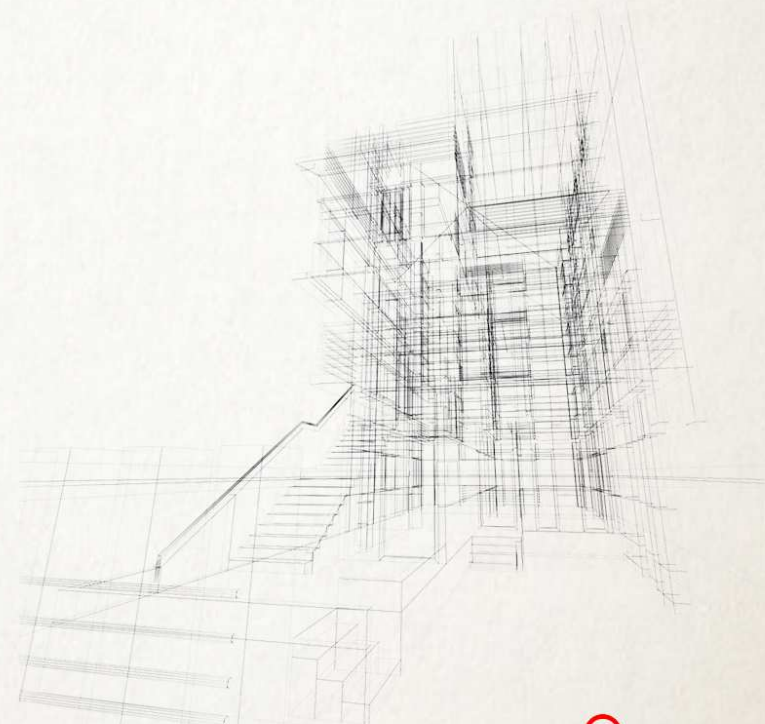
Biswas, B. K., Hamada, Y., & Jannat, N. (2019). Prediction of Indoor Thermal Environment and Heat stress (WBGT, PHS, PMV) in Tropical University Classrooms. *International Journal of Scientific & Engineering Research*, 10 (5), pp. 630-639

Biswas, B. K. and Hamada, Y. (2018). Perception of thermal comfort and prediction of heat stress (PHS) due to heat gain in tropical university classrooms. *IOP Conf. Series: Journal of Physics: Conf. Series 1086 (2018) 012007*, doi :10.1088/1742-6596/1086/1/012007

Biswas, B. K. and Hamada, Y. (2018). Landscape Urbanism as a Strategy for Integrating a Historical Site: Shishu Park and Suhrawardy Udyan, Dhaka. *International Journal of Engineering and Innovative Technology (IJEIT)*, 7(12), pp. 12-21, doi:10.17605/OSF.IO/UXVW2

Biswas, B. K. and Hamada, Y. (2018). Influence of Window Configuration on Indoor Comfort and Heat Stress. *Proceeding, 2nd International Conference on Green Architecture*, pp. 39-46

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architectural and visualization work

## contact

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## v i s i o n

A Graduate Architect from Bangladesh University of Engineering & Technology (BUET) with a vision is to be in professional field of architecture, planning & urban design as well as in relevant research environment for being in continuous learning process and to share the spirit of knowledge & experiences with all for ensuring the sustainable living of the future world.

## professional profile

Creative expertise in Architecture, Planning, Urban Design, Interior Design and Environmentally, Socio-culturally & Economically Sustainable Design.  
Proven high level of skills in Auto CAD, 3d Studio Max, Space Syntax, Google Sketchup  
Geographic Information System (GIS) and Graphic Aided Software.  
Demonstrated abilities in Project Profile Preparation, Specification, Cost Estimation, Tender Document Preparation, Construction Management, Project Report Preparation and Presentation.  
Excellent competence in management, communication and public relation.  
Extensive work experiences with professionals, engineers, contractors and clients.

## academic credential

Bachelor of Architecture: 2013, Bangladesh University of Engineering and Technology (BUET), Dhaka

Higher School Certificate: 2006, Notre Dame College, Dhaka

Secondary School Certificate: 2004, Bagerhat Govt. High School, Bagerhat



Shekh Raseel Hall

CUET Sports Complex

A K Khan Ladies Hall

CUET Administrative Building

Mujib Baftey Complex, Chittagong

Liberation Plaza, Ramu Cantonment

CUET Future Development

AK Khan UCEP TVET Complex

## c o n t e n t

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# Shekh Russell Hall

Project type: Dormitory

Client: Chittagong University of Engineering and Technology (CUET), BRTC of CUET

Size: 7000 sqm (5 storied), capacity: 550 students

Location: Kaptai Highway, Raozan, Bangladesh

Status: Completed

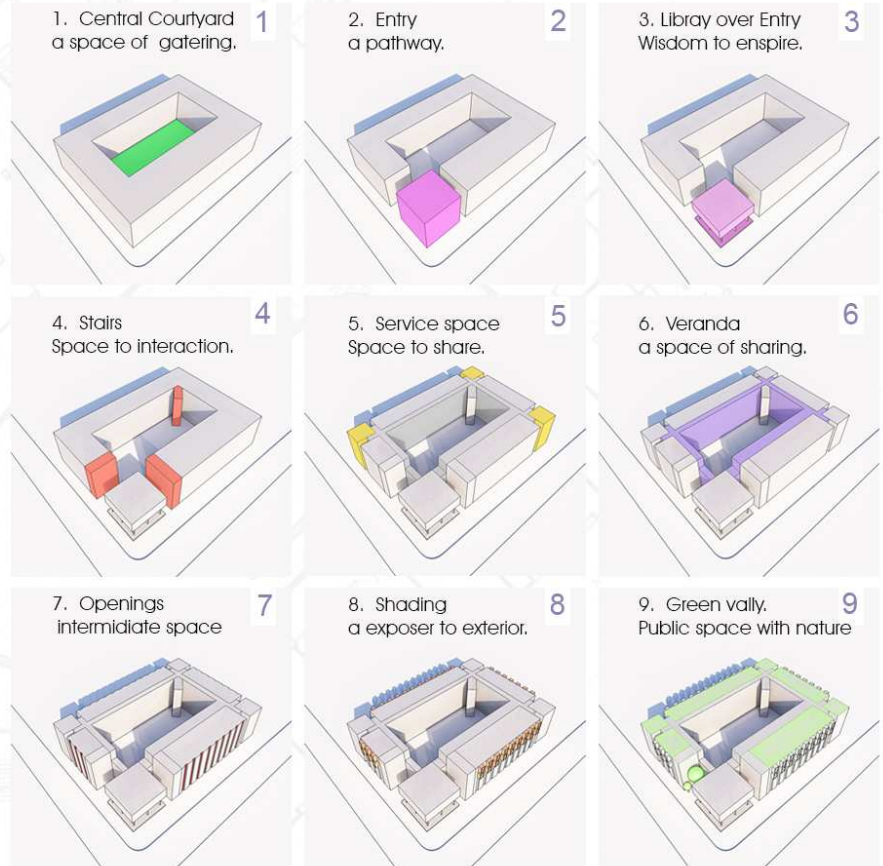
Role: Architect




# Concept behind the design

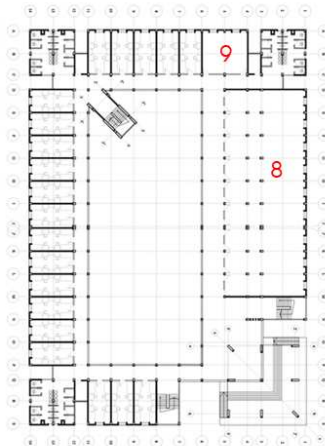


Student's dormitory is a place, where they not only stay; they exchange their knowledge, culture and expertise. This New Boys Hostel was designed to focus on these issues. Central courtyard space is the center of the community activities where they can play, gossip and pass leisure time, rooftop garden, entry side library, staircase all are designed to exchange their thought with an open vision and barrier less condition. Climatic issues have addressed by massing design, window position, shading and green roof design.

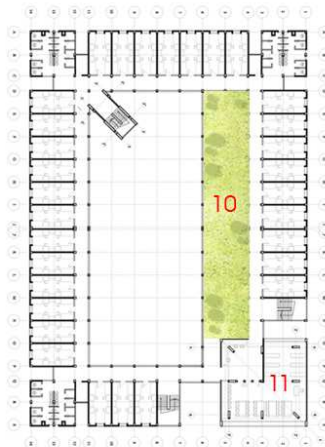




Ground Floor Plan 



First Floor Plan



Second Floor Plan

1. Entry lobby
2. Admin
3. Dining
4. Kitchen
5. Stair
6. Courtyard
7. Toilet block
8. TV/ Multipurpose room
9. Prayer Room
10. Roof top community space
11. Library

Bangladesh has a tropical hot humid condition. And because of close proximity of Bay of Bengal, Chittagong has the most diversified climatic condition. To create a comfortable living environment the building was designed based on traditional courtyard system. It creates a shaded space where students can gather, play and do some relaxing activities. A roof top garden at 2nd floor also creates a gossiping environment to share their thoughts among each other. Inviting Library will create an enthusiastic mind to enhance their knowledge.





## Sports Complex, Gymnasium, Swimming pool

Project type: Sports

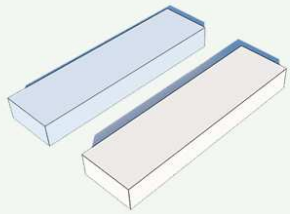
Client: Chittagong University of Engineering and Technology (CUET), BRTC of CUET

Size: 1500 sqm

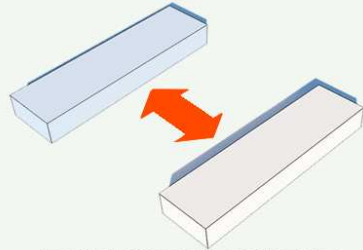
Location: Kaptai Highway, Raozan, Bangladesh

Status: Under Tender Work

Role: Leading Architect

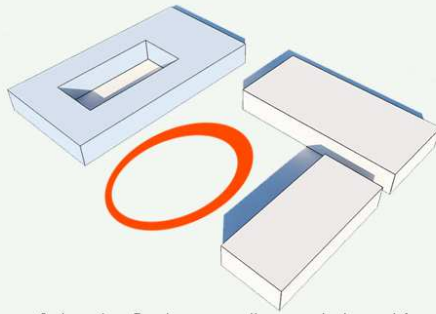


Swimming pool Gymnasium

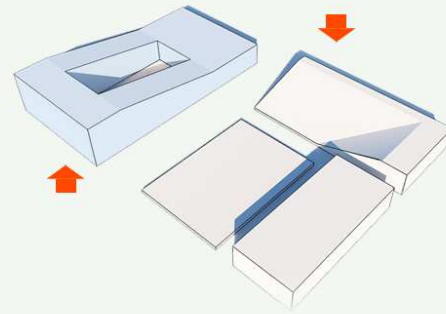


Enlarging distance to create space

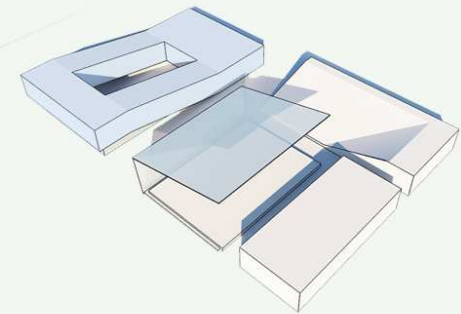
ROAD



Swimming Pool: creating central court for privacy  
Gymnasium: two mass for fitness and indoor games holding a outdoor open courtyard

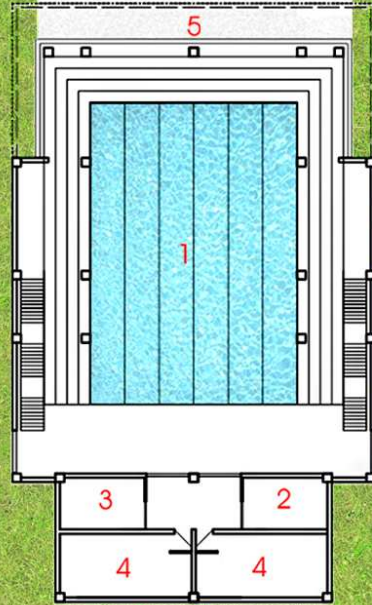
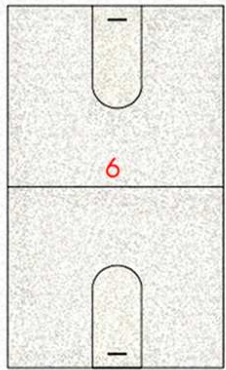
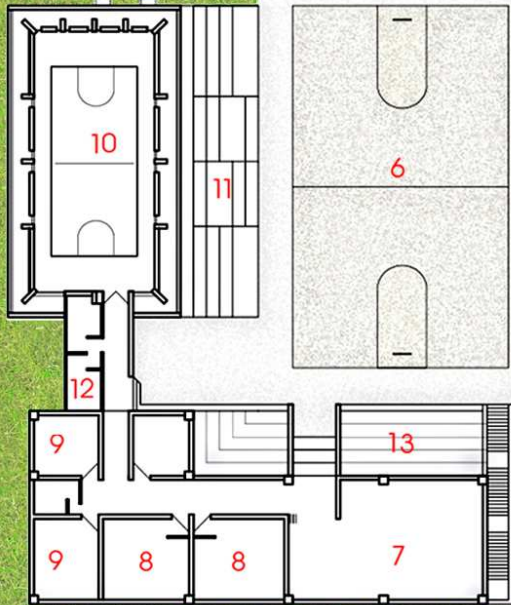


Upward Swimming Pool mass  
Downward fitness space

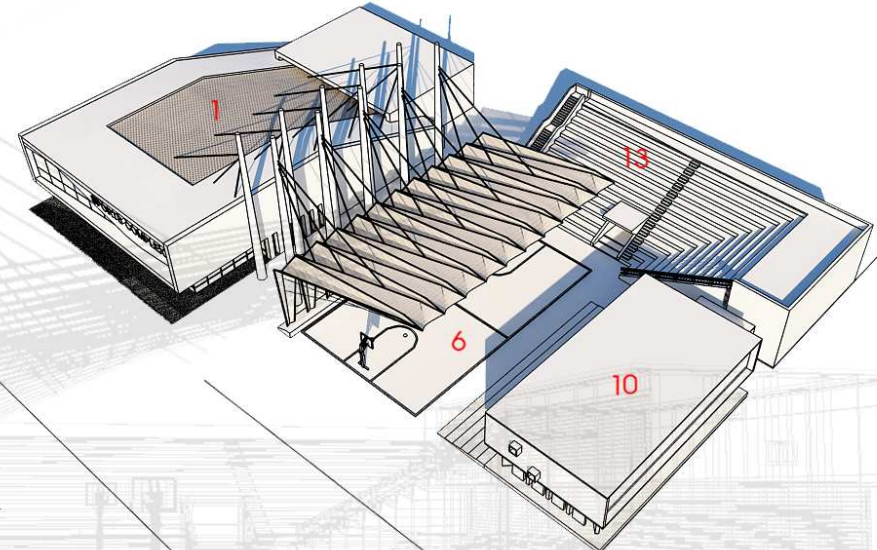


Space roof over Swimming Pool  
Outdoor Truss for Volleyball Court

Gymnasium



Swimming Pool



- 1. Swimming Pool
- 2. Office
- 3. Utility Room
- 4. Locker Room
- 5. Gallery
- 6. Volleyball Court
- 7. Gymnasium
- 8. Locker Room
- 9. Office space
- 10. Badminton Court
- 11. Gallery
- 12. Wash Room
- 13. Stepped Gallery

## Thoughts behind the design

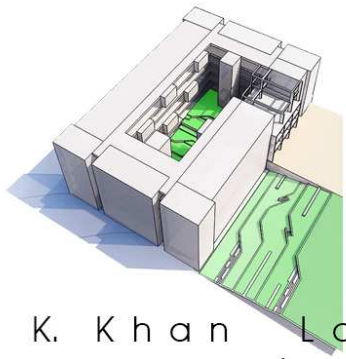
It is the central sports complex where students will get all facilities to play indoor games and at the same time body fitness training. At the north side of this complex, central playground is located, so it is the main task to submerge the complex with the central playground and make a dialog with indoor facilities with outdoor activities. As a result, here stepped galley has introduced to make a visual connectivity with the central field. Under this students can get fitness facilities. Open Volleyball court canopied by light truss structure will also allow viewers to participate from both stepped gallery and central field. In case of swimming pool, its needs privacy. So it is designed as per this manner, at the same time central transparent moveable roof will allow enough light and ventilation to the swimming area and will reduce energy usages. Some pillars will hold the truss and roof. It creates harmony to the sports complex and shows dynamic characters.



Swimming Pool

Gymnasium, Fitness Center





# A. K. Khan Ladies h o s t e l

Project type: Residential dormitory

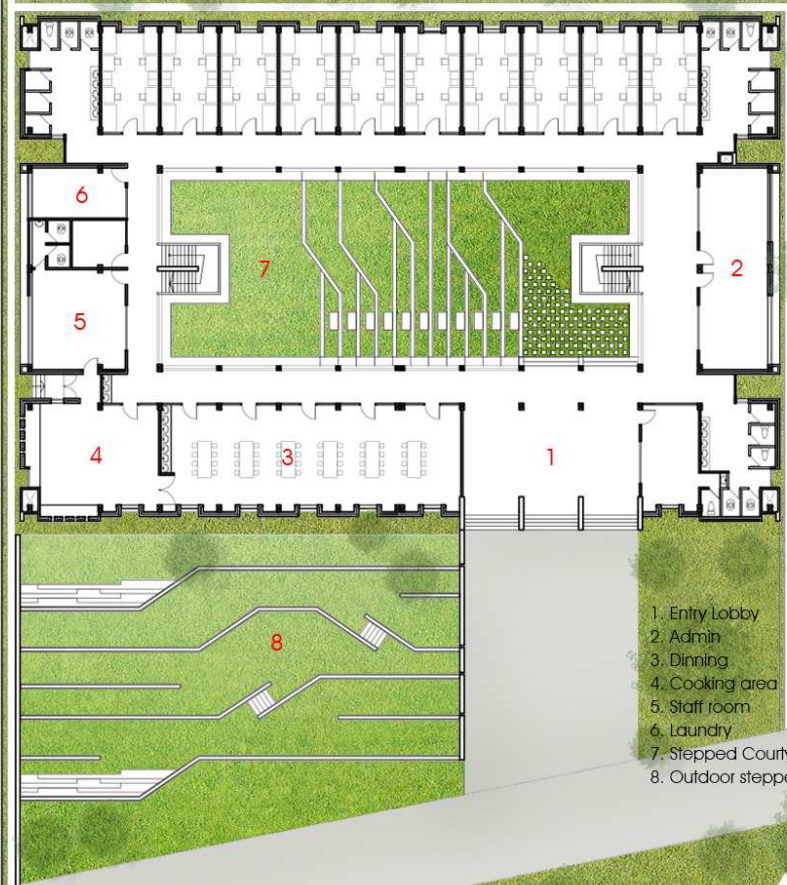
Client: A.K. Khan Foundation & Chittagong University of Engineering and Technology (CUET), BRTC of CUET

Size: 6000 sqm (5 storied), capacity: 350 students

Location: Kaptai Highway, Raozan, Bangladesh

Status: Under construction

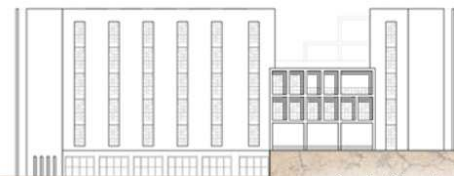




1. Entry Lobby
2. Admin
3. Dining
4. Cooking area
5. Staff room
6. Laundry
7. Stepped Courtyard
8. Outdoor stepped garden

## C o n c e p t

Chittagong is in hilly zone, and the site of this building has the same character. Submerging this building with the nature was a challenge. So stepped gardening both in outdoor and indoor courtyard has introduced. Students can pass their time at outdoor stepped garden under open sky, at the same time they can choose to visualize it under the dining space. So it will immerse their daily activities with the nature. For multiple functions, this stepped space can be used as an open amphitheater also. Internal court is for a community space, it holds the connectivity among all the living rooms, all the students. Exposed internal verandas make scope to dwellers to feel the nature more widely. Staircases create a harmony to the courtyard.



South Elevation



Longitudinal Section

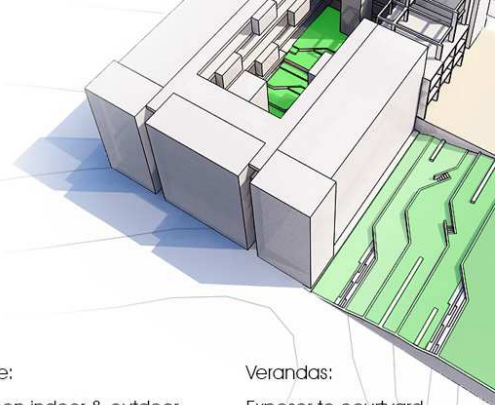


Outdoor stepped Garden





Internal stepped court and the extended veranda creates an indoor outdoor combination of space. Its creates such a space which provides privacy at the same time makes visual connectivity with every floors. Stepped courtyard creates an open gallery where girls can pass time with nature and can use the space for multiple functions.



Internal Courtyard:  
Space of gathering

Entry:  
Gateway where jury began

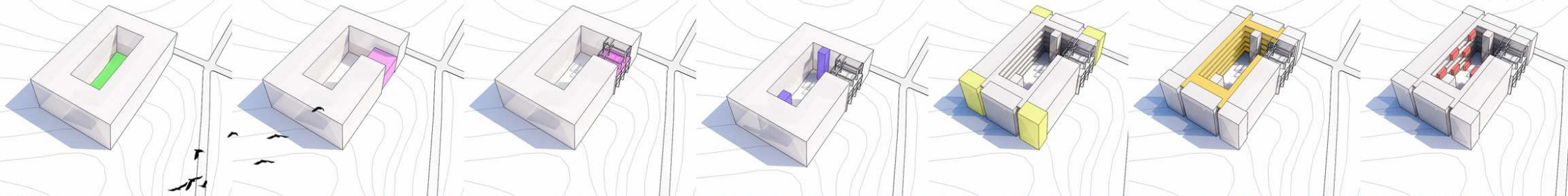
Frame over Entry:  
A multiuse space under open sky

Stairs: Vertical circulation  
Opening to courtyard

Service space:  
Space of daily use

Circulation space:  
Midspace between indoor & outdoor

Verandas:  
Exposer to courtyard



# C U E T N e w B o y s h o s t e l

Project type: Administrative Building

Client: Chittagong University of Engineering and Technology (CUET), BRTC of CUET

Size: 2800 sqm (3 storied)

Location: Kaptai Highway, Raozan, Bangladesh

Status: Complete

Role: Junior Architect



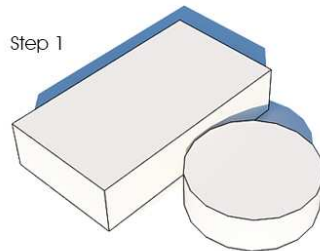


This is CUET administrative building, where all the official work, seminar, conference and other activities will take place. Vice Chancellors office is also designed here. A 250 seats Gallery is over VC's room is for hold seminars. Internal court is to provide the building light and air.

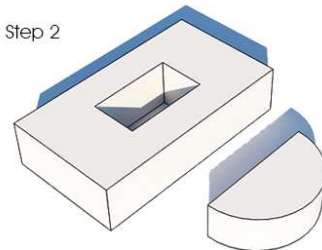


West Elevation

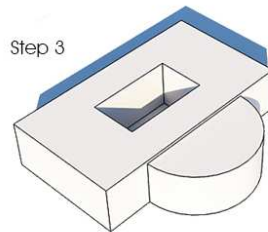
Step 1



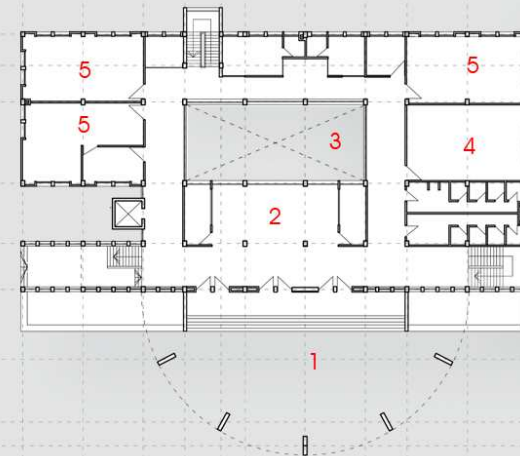
Step 2



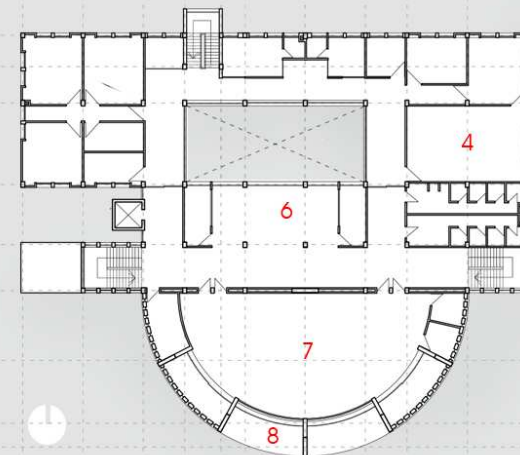
Step 3



1. Entry
2. Entry lounge
3. Courtyard
4. Conference room
5. Office space
6. VC lounge
7. VC office
8. Terrace



Ground Floor Plan



1st Floor Plan

Mujib Battery Complex  
at Artillery Centre & School,  
Halisohor, Chittagong

Project type: Multipurpose, Auditorium, Office space

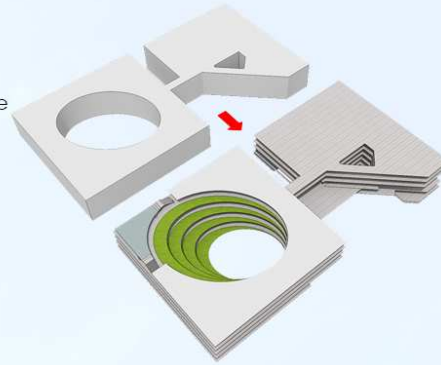
Client: Bangladesh Army

Size: 30000 sqm (5 storied)

Location: Halisohor, Chittagong

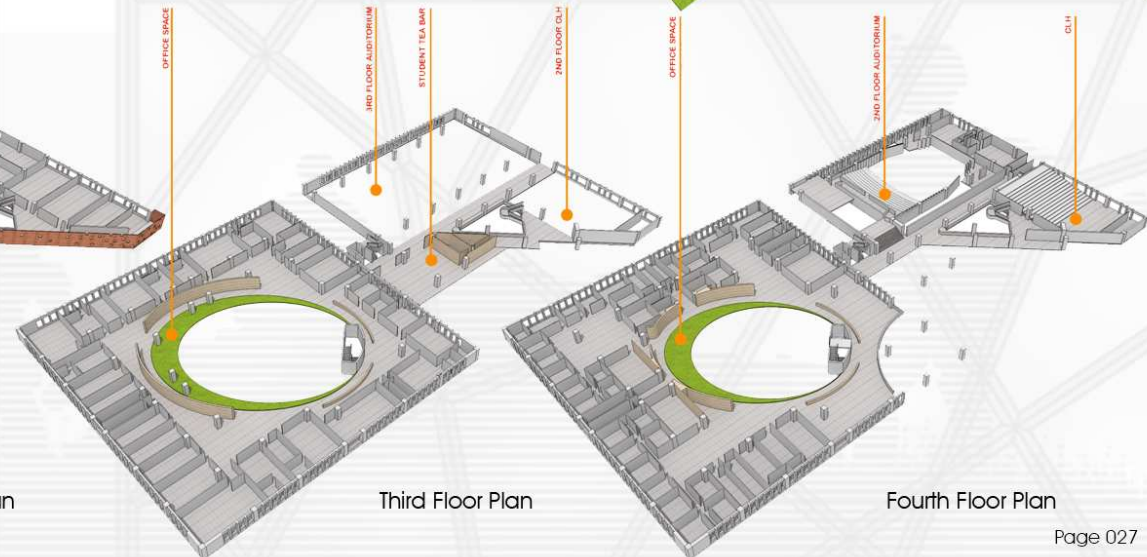
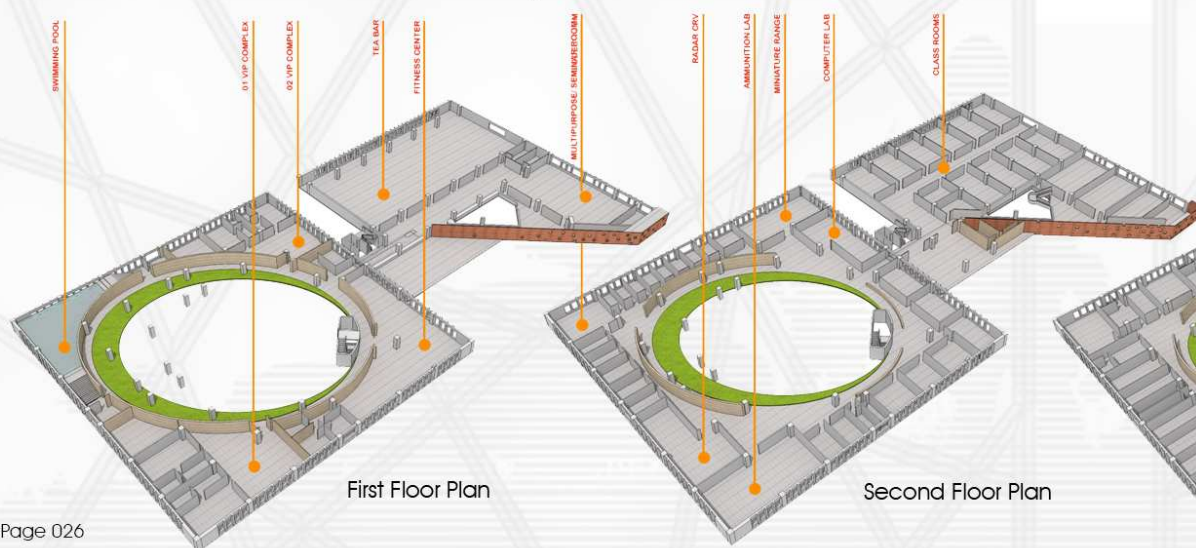
Status: Proposed

Role: Leading Architect





It is the headquarter for the Bangladesh Army where officers of Artillery Department will do their official activities. At the same it will hold an scope to gather 550 seats auditorium for different functions. An Artillery Museum is one of the key features of this complex. Here old equipment, guns, soldiers used goods, pictures all will be display to stimulates patriotism. It will have several classrooms and projection rooms facilities for young officers. Some residential facilities has also accommodated here to give shelter for VIPs. Internal open court is the common gate together space to make a close interaction activities among the officers.





Open green courtyard  
towards the blue sky, will  
enhance  
patriotism

Bangabandhu court



From court to the open sky



Roads to the fortress





## Liberation Plaza, Ramu Cantonment

Project type: Plaza, Memorial

Client: Bangladesh Army

Size: 2000 sqm

Location: Ramu Cantonment, Chittagong

Status: Proposed

Role: Leading Architect





Concepts:

Visualization of a monument should carry out its aesthetics as well as its locality. This particular monument is the symbol of liberation war victory at 1971 when civil people, Bangladesh army and foreign friends fought together as a unit. Their brave act as freedom fighter brings that independence after a struggling nine months. For that sacrifice our nation is now free from the enemies and only for this every morning flood of sunrise is enlightening us proudly.

Design of this monument, each object has its own identity,

3 columns: symbol of civil people, Bangladesh army and foreign well wisher who have erected our nation. Also it's a representation of southern shields 3 arrows

9 floor plates: representing struggling 9 months. It also creates a formation of hill.

Base of the monument: it's representing southern shield logo and the formation of the stepped plaza is for arranging it on its contoured ground level.

Water fall: it's the purity symbol for nation which has obtained by serious 9 months and the holders are the freedom fighter.

16 DECEMBER

NOVEMBER

OCTOBER

SEPTEMBER

AUGUST

JULY

JUNE

MAY

APRIL

MARCH



# CUET Future Development

Project type: Future Vision, Animation

Client: Chittagong University of Engineering and Technology (CUET)

Role: Leading Consultant



Activate Windows



# AKKhan UCEP TVET Complex

Project type: Educational Institution

Client: A K Khan Foundation, UCEP

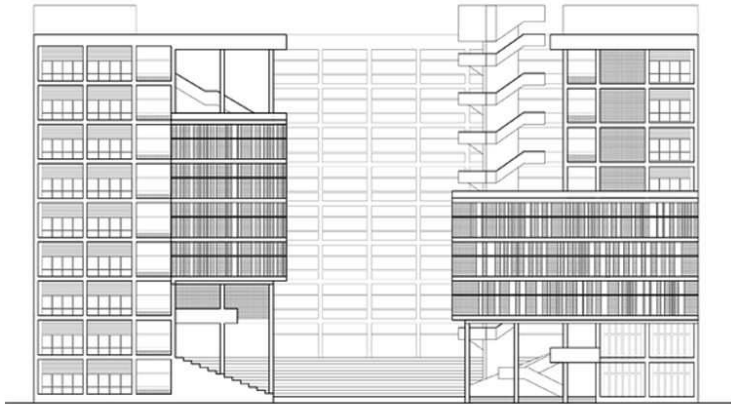
Size: 12000 sqm (9 storied)

Location: Mohora, Chittagong, Bangladesh

Status: On going

Role: Principle Architect

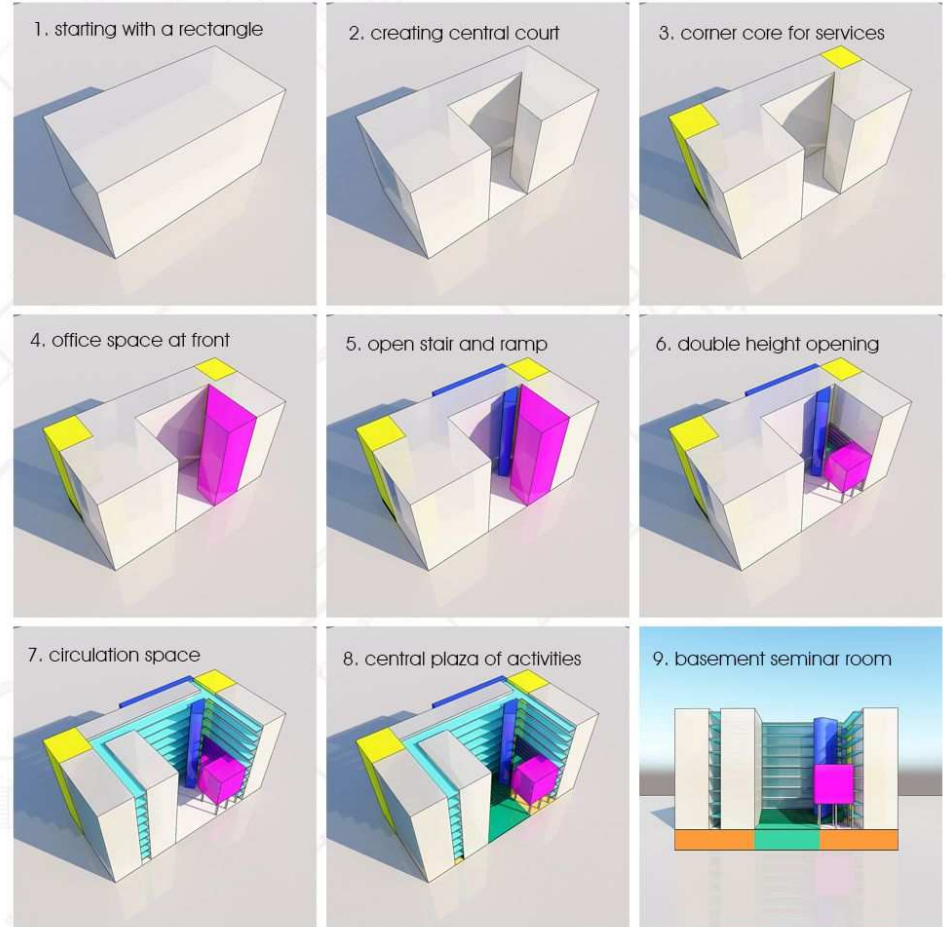
## Concept behind the design



UCEP Bangladesh envisages 'a society upholding good governance where all children and youth are able to develop their potentials in a child and youth friendly environment without any discrimination'.

The Mission of UCEP Bangladesh is 'to raise the dignity and socio-economic conditions of children and youth, especially the working poor and the under-privileged, living in urban and peri-urban areas, through education and skills training, awareness raising and advocacy for ensuring good governance to a level that they can effectively participate in national development with enhanced capacity and fulfilment of their basic rights.'

This project aim is to hose 5000 students at the home of training. There will be vocational training courses in different courses with the long and short term. At the same time, this structure will house seminars conference and administrative activities. there will be student facilities such as a library, gather space, sports zone, canteen and so many other amenities. This project also have a male and female dormitory.



Institution with male and female dormitory (ground floor)

