# **ARCHITECTURAL** HAND BOOK





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### **Foreword**

BMS School of Architecture, the 8th institution under the BMS Educational Trust, has the distinction of being established as an Independent "School of Architecture" in the year 2010. BMSSA is a center of innovation and one of the nation's few independent architecture schools with a stated mission of being dedicated to educating future generations to be ethical professionals, creative designers and informed citizens.

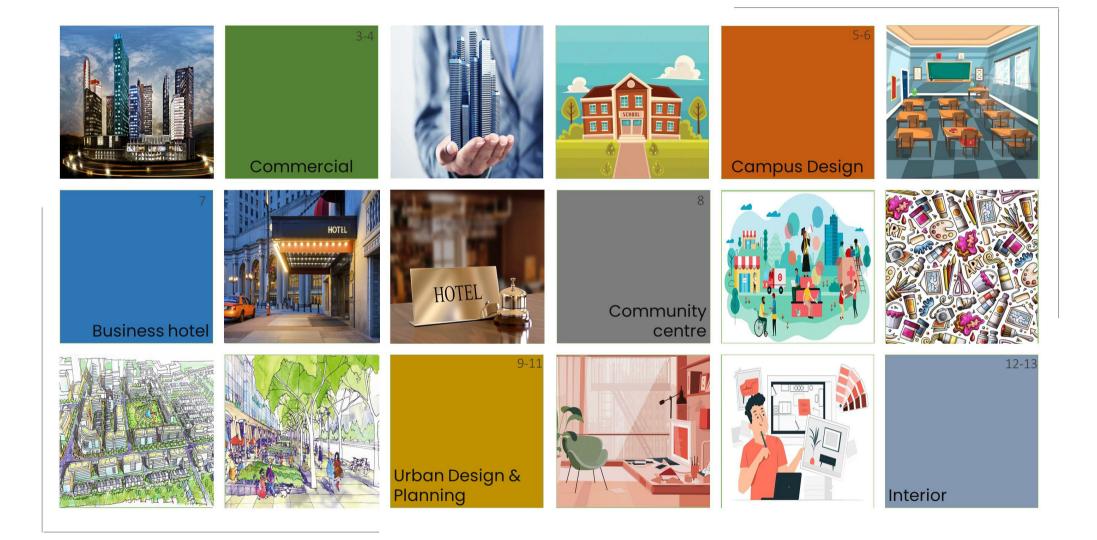
The vision of the school is to build a world-class research and educational institution where knowledge is power, encouraging innovations and providing services for sustainable built environment and architecture. The school aims to demonstrate ways of thinking and working that give students the confidence to confront the unknown and contribute to the development in its largest sense.

Our students come from all walks of life, but have a common passion for architecture and a common objective, which is to become the ethical and passionate professionals.

This booklet is evident of the best collections of design works of batch 2022 undertaking their 10th semester. It exhibits the various projects in various semesters. It is particularly reassuring and promising to see the commitment and hard work by students and faculty members under whose guidance and support, various issues of the projects were tackled.

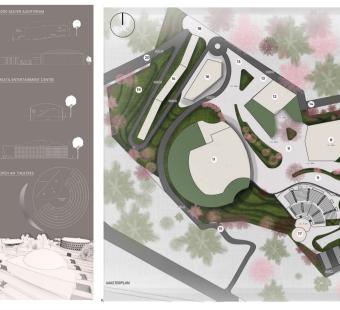
By the time our students reach their final year, they are individuals in their own right, thinking young men and women trained to design spaces that are aesthetic, environmentally friendly, energy economic, socially and contextually responsive and above all are citizens that could help make this world of ours a better place to be in with inclusivity, affordability and humaneness as part of their psyche. I wish them all the very best!

## Content.....





VENUE FOR IFFI
The International Film Festival of India is visited by a very huge numbe of people every year. It also increases tourism in Goa and is a mean o Revenue generation in Goa as well as nationally. It is, therefore, very important to create a space which is aesthetically pleasing as well as functional.





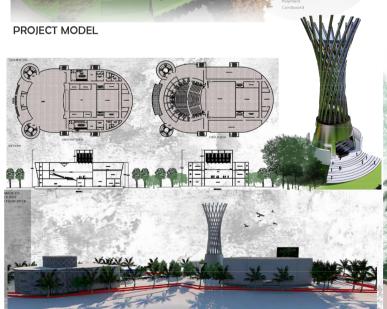


#### PROGRAMME

CONVENTION CENTRE	2100 SQ.M
OUTDOOR CINEMA	965 SQM
3-AUDITORIUM CINEMA	1300 SQ.M
PREMIERE THEATRE	4100 SQM
AMPHITHEATRE L	1800 SQM
AMPHITHEATRE 2	500 SQ.M
FILM VILLAGE	1950 SQM <sub>Q</sub>

## SITE PLAN







view of auditorium from the plaza

The site's main feature is the 1000 seater auditorium which is oriented in a Northwest-Southeast direction.

west-Southeast direction.

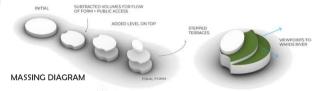
- The predominantly North-South orientation helps to cut off East and West solar heat gain.

- The connect towards the plaza on the Northeast forms the main entrance.

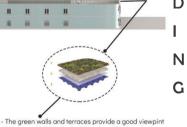
- The curvaceous form helps in channeling the convection currents from the riverside, and
the green terraces cut off heat gain due to the southern sun.

- The position of plaza helps to bring in good glare free Northern light into the grand lobby.

- The free flowing terrace gardens are connected via external stairs on each floor







GALA PREMIER THEATER (1000 SEATING)

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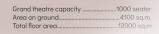
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while also shielding the building from Southern heat.

- It helps retain a minimum of 76 L/m2 of perched water

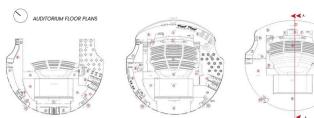
above the cells.

- A lightweight sedum blanket option is chosen to not cause excessive loading on the structure. This green roof thus cools down the building to a large extent while creating a good viewpoint.



**ELEVATION** 





THE INTERNATIONAL FILM FESTIVAL

The International film festival moved its venue permanently Goa in 2004, considering the regional importance and

recognition in tourism on an international level. Main idea was to design and create new studios and post production facilities for the International film festival of India at Goa. The project brief was to design a landmark campus for film

fraternity which can host both filming activities and annual

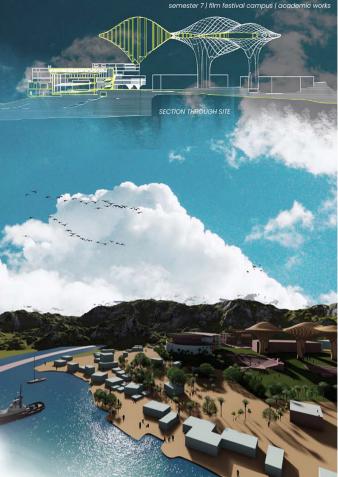
film festival. This project made students understand the

importance of creating a space which is aesthetically

remarkable as well as functional.

MASTER PLAN

MODEL



LEVEL G+5 Multimedia base Flexible open plar space for events LEVEL G+4 Clustered office of

LEVEL G+3 Office spaces

LEVEL G+2 Bollywood theme restaurant Manager's office

LEVEL G+1 Projection room
The Filmreel: cafe and bar

LEVEL GROUND

0 Passenger elevators Service elevator Bathroom ducts

> **EXPLOADED ISOMETRIC** VIEW

#### MEDIA/RETAILTAINMENT CENTRE



Media centre, multimedia tower and retail entertainment are clubbed together into one high-rise built structure that engages the public and becomes an immersive filmy experience. The media centre/retailtainment experience. The media centre/retailtainment centre of so the ending of the public plaza and pedestrian access. It houses a recessed entry that acts as an extension of the plaza. This double heighted space is designed so a foyer/exhibition space and caters to many income generating temporary installations and



MULTIMEDIA OFFICE SPACES RESTAURANT (ROLLYWOOD THEMED) MUSEUM AND CAFE/BAR (THE FILMREEL) MEDIA ARCHIVES

The green terraces concept has been applied to this block as well. The two accessible and one inaccessible terrace consist of the following

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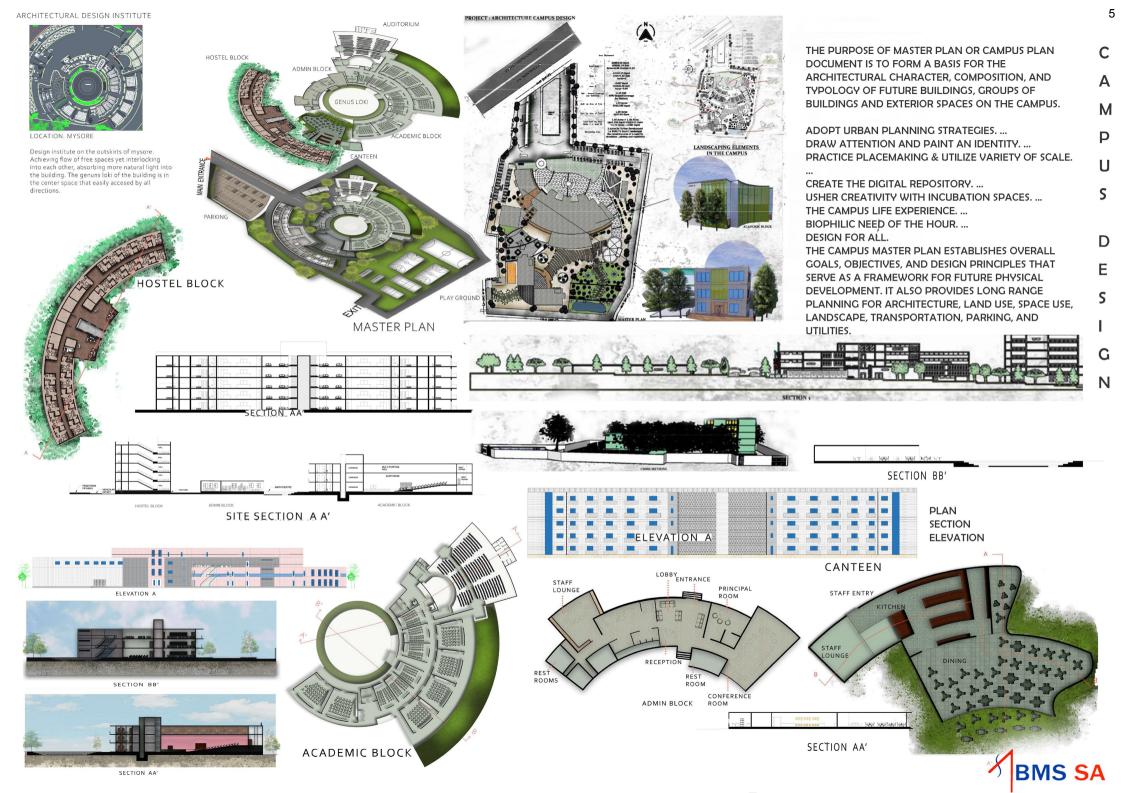
- layers:
  1. SEMPERGREEN SEDUM-MIX BLANKET 30 MM
  2. SUBSTRATE ROLL 20 MM
  3. DRAINAGE INCLUDING FILTERFLEECE 11-20 MM
- These layers help in draining out the water hitting the terraces, are lightweight and low thickness thereby not causing heavy

loading, and makes for a cooler environment.

The substrate is a good growing medium and ensures good water absorption and tenacity.







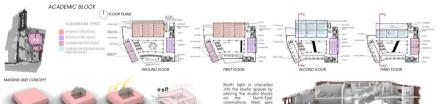




AN ARCHITECTURAL CAMPUS LOCATED IN MYSURU ON A SITE AREA OF 5 ACRES, WITH THE SPECTACULAL YIEW OF THE CHAMARIDI HILLS ON MOSTHERN BYOLAND A LAKE ON ITS SOUTHERN BYOLS ACRES TO BE BUILT, REMAINING 2 ACRES TO BE LET FOR FUTURE ERPANSION.

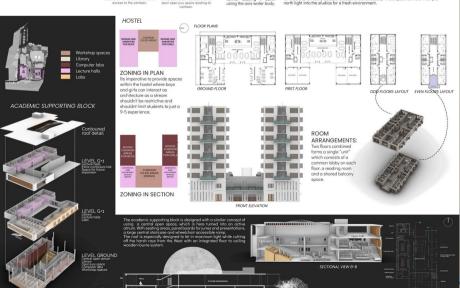






SECTION X-X THROUGH CLASSROOM/STUDIO

STUDIO/CLASSROOM COMBINED PROTOTYPE:
This type of classroom has entries from the 2nd floor as well as the 3rd floor. Split in half, this studio has classroom seating on the "mezzanine" floor which encourages









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the views show integrity in thespace form relationship.
enhancing openess and viability the

he space also brings disgin factor out

this is the open atrium - hexogonal shape the cutting through the centre

S.N Space

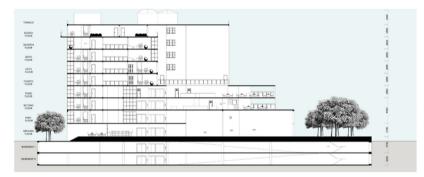
Business Centre Cafeteria



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### BUSINESS HOTEL

Located inside Manyata Tech Park (Bangalore), the hotel is set to serve the population visiting the technological embassy of India. The target group, here, requires luxurious spaces with more silent zones and efficient working areas.

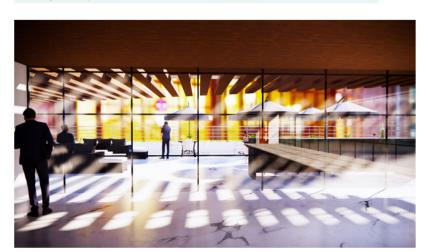


The hotel is located in the centre ofManyata technological park in Bangalore, next to the technological embassy of India.

The group of people visiting/residing is restricted to businessmen.

The core of the building is designed with the concept of a honey-comb structure.

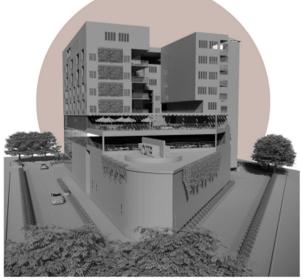
It is not only a very strong structural shape, but is also aesthetcially pleasing.













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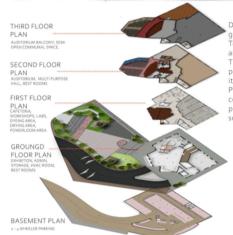
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# COMMUNITY BASED DESIGN

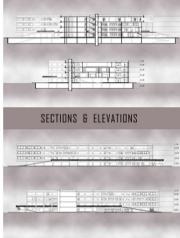


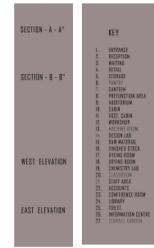
Design assigned is to elaboratly design, the met gala, holding for 2000 + capacity room of people. To design a public engaging film city that host and caters for various events.

The challenges with the site is the focal access points as it should cater an ferry dock, the site itself was a heavy contour of 30m.

Program: convention center, film village, media center, retails and exhibition areas along with public interaction zones were only asked to do a scaled zoning in the site.

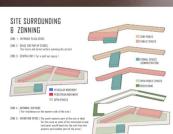














COMMUNICATION



BELONGINGNESS



HEALTHY Environment



FUNCTIONALITY



CONNECTIVITY



COST EFFICIENT Building LOCATION - YELAHANKA, OLD TOWN, BANGALORE SITE AREA - 5554 sq.M

Started out as an urban design assignment with a heavy documention of the area in terms of history, landuse, demographics, socio economic character, architectural character etc. This documentation has no doubt brought about

a sense of fullfilment of spaces missing in the locality into the

programs of this project intervention. HISTORY -

Primary occupation of the first settlers of this region was weaving. Weaving as a craft has been passed from

generation with many in house looms running production through the day.

However with power looms introduced and indusctrial standards of manufacturing, adverse effects have thrown a

wrench into their source of livelihood.

AIM - To preserve the culture and art of weaving

- To intervene spaces into the site that cater to the surroundings as well as the very main purpose of surving the community.

CONCEPT -

The idea to this intervention was to form a sort of a connect

between the street and the building it self which derived its way from the street design group assignment.

This connect is initiated through a unique character of a green band (green grass slope) mainly leading to the first level of the building which accomodates public spaces, in order to cater to the surrounding peripheral needs.

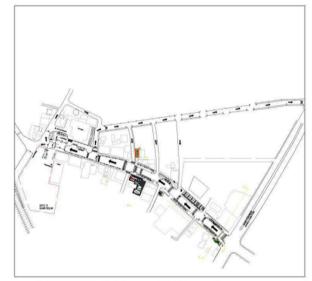
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The zonning on the corner of the sheet gives a much more clear cut idea on the seggregation of the spaces as a whole.



## **URBAN DESIGN**

## STREET DEVELOPMENT DESIGN



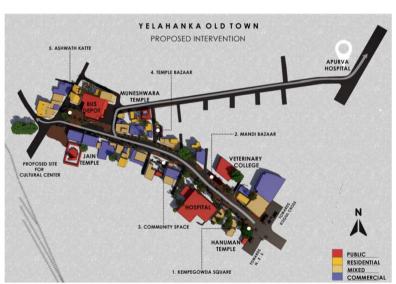
LOCATION: Yelahanka Old Town, Govt. Hospital Road

To engage people in the area to be more aware of the yelahankas weaving community, and providing communal spaces that encourage street activities.

This design not only clears road for transport but also provide area for street vendors who occpy the road for vending.

It is designed to match the vernacular style of the weaving community.

















LOCATION: Yelahanka Old Town, Bengaluru Semester 8 | Mixed use development Individual project Duration of project: 1.5 months Mentor: Ar. Sanjiv De

With its vibrant street markets, and rich history, most buildings of Yelahanka Old town today have a mix of functions; retail and residential within.

Following this pattern, the future of Yelahanka Old Town promises the concept of mixed use arising at each step. The proposed design aims to transform the Yelahanka bus terminal by including functions of hospitality, food service, retail and office spaces, so as to present a face of Yelahanka previously unseen.

The existing bus terminal is redesigned into a mixed use development to generate revenue and to act as a pause amidst the hustle bustle of the transport service.



The site chosen for this project is the Yelahanka Old Town Bus stop and the Railway Station road which extends till the Veeranjaneya Temple. It is one the most important streets of Yelahanka old town as it connects the major transport modes.

Present condition: The present bus stop has 3 bays with public amenities in the ground floor and office spaces such as the passenger facility centre on the upper floors.





between both the blocks. Existing water

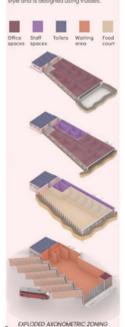
The concept is based on 3 ideas:

1. The sepration of movement in order to avoid accidents as much as possible.

2. The zoning of built forms on a temporal basis is, the user group of passengers is divided into those who stay just for the buses (upto 30 minutes) and those who stay for longer.

3. Paying homage to the culture and heritage of Yeldhanka.

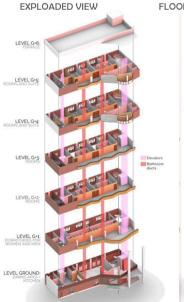
The main bus terminal block is called PANNA and it forms the face of the site. It consists of 6 bus bays for transit and 3 idle parking bus bays. The entrance of the site for pedestrians is directly to this block which houses seating and waiting areas, kiosks and ticket counter on the ground floor. The upper floors house ofice spaces and commercial areas to compensate for the existing buildings that have ben removed. Roof structure for the bus bays emulates vernacular style and is designed using trusses.





#### CIRCULATION





FLOOR PLANS



interwoven tubes provide stability an weather-resistance symbolising the resilience of the "nekara" or weavers.

The hotel block Ausan is zoned out in a manner for it to be accessible to those users who wish to rest and relax before/other their travels. It is located and the form of of the site. Service drap of boy for the hotel's blothen is to the lat of the blothed outer. In the control of the hotel's blothen is to the hotel's blothen is the hotel's blothen is to the hotel's blothen is to the hotel's blothen is to the hotel's blothen is the hotel's b

The hotel consists of 6 floors in total inclusive of 

- Diness AREA (25 PROPLE) 
- KITCHEN 
- KITCHEN 
- 16 REQULAR ROOMS 
- 2 SUITE BROOMS 
- DOBMITCHY FOR 18 CUESTS

The bus terminal consists of 4 floors





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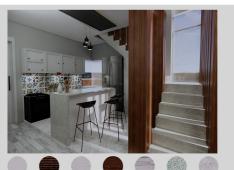
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BEDROOM 01



BEDROOM 02







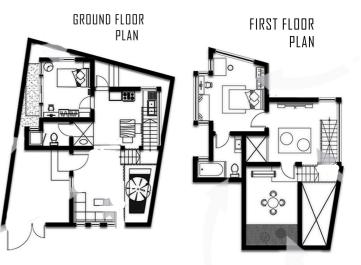














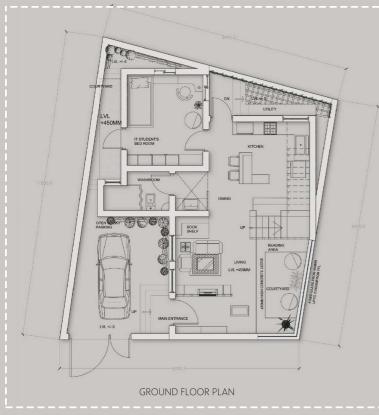


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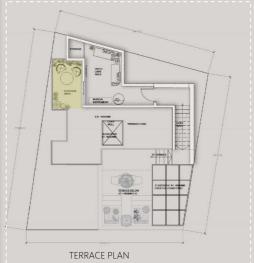










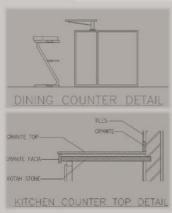














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