



ATELIER '17



**WELCOME TO  
ATELIER**

**A STUDIO OF IDEAS PUT TOGETHER IN PAGES THAT REFLECT THE THOUGHTS OF A THROG WHO**

**ASPIRED TO PRODUCE A MEMORABLE PIECE OF WORK....ATELIER**



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# EDITORS NOTE

A studio of ideas put together in pages that reflect the thoughts of a throng who aspired to produce a memorable output.....ATELIER. 13 fellas worked hand in hand to accomplish this magazine. The start was chaotic but still we steered forward with the support from our mentors and fellow mates; things started to fall in place eventually. The consequence is a prolific composition of articles and works of SICA students and faculties. With the belief that this issue is a success, we give you ATELIER'17, a communicative treatise!

It gives us immense joy and satisfaction to finally re-introduce our very own college magazine "Atelier". A lot of effort has gone into the making of this issue. The best thing about this issue is that it represents the creative side of Sigma College of Architecture students to a fair degree-something that we think we all need to reconnect with. The magazine will open a window of opportunity to many people who will know that as an institution, we are destined to the bright future. It ignites pleasure and satisfaction in us to ensure about the great stride gained by Sigma College in the short period of its existence. We are creating a future full of optimism and enthusiasm, a future where every endeavor will succeed and ineptitude and disillusionment will be something of the past. To all readers: Parents, pupils, friends and even stakeholders, a little patience and sobriety will help to see us through. Remember, you never get the chicks by breaking the eggs; they hatch. Where there is life, there is hope. We are pleased to present Atelier 17', our annual magazine bringing our works, views, articles, moments, events etc. along with it. And I am glad to inform that from now on our annual magazine will be known by the name Atelier followed by its year. We hope you enjoy reading this issue as much as we have enjoyed making it. Any suggestions or criticism on the magazine would be most welcome.

JOHN BRUNO



ABIN RAJ



AR. GIRIDHAR. K



AR. DINESH

## FACULTY IN-CHARGE

## MESSAGE FROM CHAIRMAN

Prof. Dr. T. James Wilson, BE MBA PhD  
Sigma College Of Architecture

**'YOUR ATTITUDE IS MORE IMPORTANT THAN YOUR SKILL'**

I take this opportunity to congratulate the editor and the team of magazine committee members. I appreciate your dynamic academic acumen of bringing out the ATELIER-17 magazine. Our talented students' creativity will match with the theme of our program.

Education determines the level of prosperity and welfare. In this practical scenario, today's need is quality education and the motto of SIGMA COLLEGE OF ARCHITECTURE is to provide 'Transformative education' for fullness of the life.

My special greetings to one and all, on the eve of the annual day celebration  
BEST WISHES



## MESSAGE FROM DESIGN CHAIR

Prof. Ar. Joseph N Fernando  
Sigma College Of Architecture



It makes me very happy to note that the students of Sigma College of Architecture are bringing out the college magazine for the year 2017.

Young and budding architects in India today draw their inspiration from styles of architecture evolved in USA and Western Europe. As a result, though the buildings designed by them look modern, they do not provide suitable environment inside, they are neither energy efficient nor sustainable. They are not cost effective either.

The solution to this problem lies in designing buildings to suit the context and the elements of the nature.

Neo-Regionalism is a style of architecture evolved on these principles Hence the theme of this magazine is very relevant to our time and place.

This magazine also showcases the academic work done by our students, their co-curricular as well as extra curricular activities.

Several days of hard work, intellectual and creative energy had gone into the preparation of this magazine.

I appreciate the student's effort and congratulate them.

## MESSAGE FROM PRINCIPAL

Ar. Indhira Kolli, M.Arch  
Sigma College Of Architecture

I congratulate the students that you are bringing out the magazine for the year 2017. And also I am appreciating that you are exhibiting various levels off design work, articles, extracurricular activities of students and faculty. It's a great opportunity to look at ourselves once again.

**Regionalism:** We architects are highly responsible for our native, immediate surroundings and region. Whatever we design, it should serve the purpose in the regional context. It should eliminate adaptive at the same time suit our life style, climate, resources, and most of all, the character of region. Our current society are attracted towards the west and busy imitating them. Modern Architecture won't gel with every context. Regional character can be distinct in climate, special material resources are distinct cultural heritage character. Our responsibility is to respond to immediate surroundings. You cannot bring alien character or material to merge with native character.

I wish young generation should bring out new movement on regionalism which should serve the purpose of specific region. As you young Architects you have much scope and responsibility towards regionalism. Ar. Laurie Baker and Ar. Rajrewal are our inspiration.

Wish you all the best for your bright future.





## MESSAGE FROM DIRECTOR

Gladis Saroja D.H., M.Tech  
Sigma College Of Architecture

I am pleased to know that our students are bringing out College magazine this year also. Let this be a forum to display the talents and creativity of our beloved students and teachers. I have no doubt that this magazine will showcase the strength and motives of our institution. I heartly congratulate all the hands behind this venture and I extend all best wishes for the success of this endeavor.

## MESSAGE FROM HOD

Ar. Vijay Vinithan, M.Arch, AIIA  
Sigma College Of Architecture

I take this blissful opportunity to convey my best wishes for effective, successful, and productive symposium team members and staff coordinators to conduct and set a benchmark for First ever National level symposium AZERO 2017 in our SICA Premises and I extend my congratulations to ATELIER - Magazine team for their indomitable work through their ingredients for our symposium .The word AZERO (A0) once I heard from my symposium team members. I really felt an infinite or boundless sized forum where you can trigger your inventiveness and exhibit your dexterity without any precincts. So I greet everyone for this astonishing event to experience an intellectual and novelty altogether.



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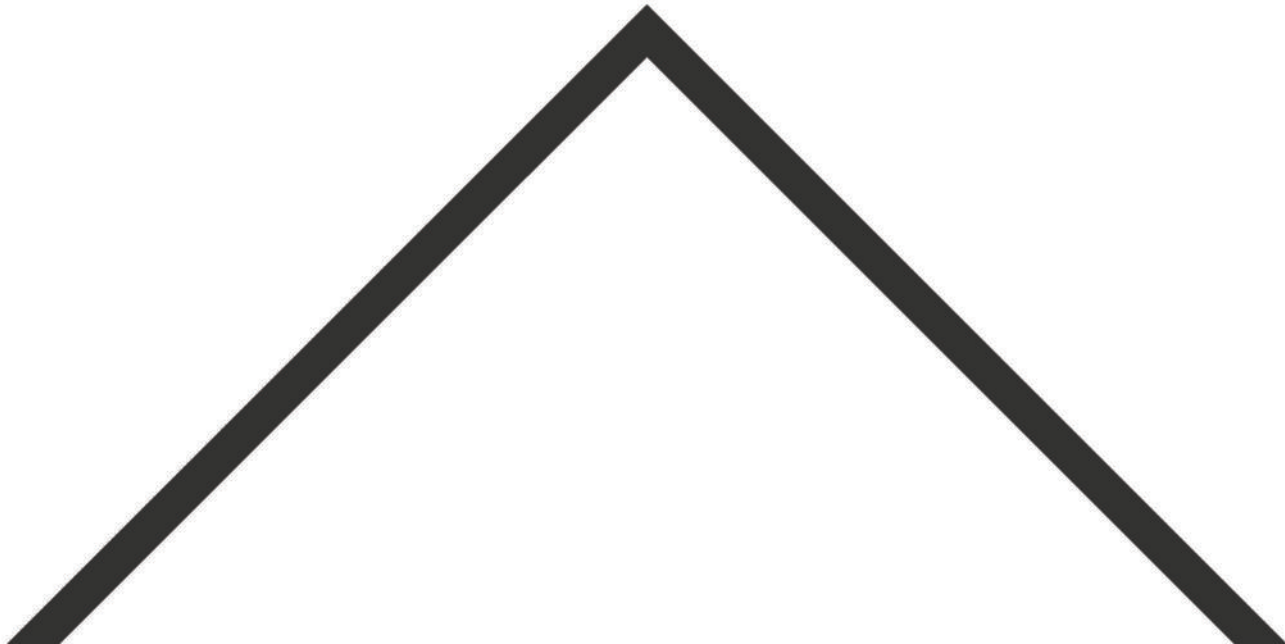
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**"LESS IS MORE"**

**-LUDWIG MIES VAN DER ROHE**





# SPACES CONFIGURED...

## A SOUL GIVER OF SPACES

Ar. Sanjay Mohe, A person who let his work do the talking always. The sage-like architect, with his beard and big hair, gives architecture a spiritual spin. He strongly believes that common sense plays a vital role in building design. According to him, a space should evoke an emotional response from those inhabiting the space and it should reflect the locality and culture of where it is placed.

"It is not about external appearances as with a sculpture. The space within is important. You have to start from inside and move to the exterior."

He sticks to the construction techniques of the past where nature and climate were given more importance.

Common sense is keeping nature as a part of the plan. In order to let the natural elements into his buildings, he made use of natural lighting and ventilation to a much greater extent.

"A building in its lifetime is, probably, the largest pollutant. The process starts with piling right up to the construction and the subsequent requirements of the building. It is the largest consumer of natural resources." Energy conservation and sustainability should be considered for construction.

Wide open spaces, according to him, are best suited to design educational spaces. His thinking is the opposite of the 'Cell and Bell' theory of the old days. The belief was children be crammed in cell-like classrooms and taught till the bell went off. But his classroom is inspired by the Gurukul tradition where children are in close proximity to nature while learning their lessons. Plenty of space and light are prerequisites for holistic learning.

"An educational place should be such that it motivates a child to learn."

Being a man of simplicity, he reflects it in his design too. When he talks of openness in his design approach, the same could be observed in his works too.



# CONSTRUCTION OF BUILDINGS WITHOUT STEEL

ER. RAJENDRAN.S

In the evolution of building technology, reinforced cement concrete is playing a vital part till date. This rcc is considered to be the most advantageous technique in providing strength and shape to the buildings. The term rcc is applied to all combination of steel and concrete in which both materials resist the stresses induced in the structure. The steel resists the tensional stresses while the concrete resists the compressional stresses. After introduction of rcc only, we were able to go for bigger spans cantilevers with high raise buildings. From the time rcc was introduced, corrosion of steel in concrete has also entered in the building technology. This gives greater problem in the coastal area where corrosion is activated by the salinity in the atmosphere to keep the full stop, for this common concern of corrosion in building. We engineers have to think of an alternative material to replace steel in coastal area.

I, as a specialist in cost effective technology, would like to throw some light in some of the construction techniques, where no steel is used. Construction without steel is not new to us. Wherever we see our old temples and palaces, we can be proud of our forefathers. Here, I would like to restrict myself with residential buildings with ground floor and first floor.

Now let us see form base to top; from sub structure to super structure.

## SUB STRUCTURE:

### FOUNDATION:

No foundation carries any load without settlement

Overall settlement causes no super structure damage

Differential settlement can seriously damage the super structure

Large settlement will lead to collapse of the structure

Random rubble masonry or brick masonry can be adopted for foundation, over 6" thick PCC plain cement concrete (using 40mm metal)

RCC plinth beam is avoided and cut stone blocks are used.

### SUPER STRUCTURE

Brick work in cement mortar, is used

Brick work in RAT TRAP BOND technique is used

Brick work in stabilized mud mortar is used

### OPENINGS (without RCC lintel)

Brick corbelling

Arched openings

Cut stone lintel

### ROOF

Brick vault

Flat brick domes

Brick domes

### STAIR CASES

Semi-circular arches or segmental arches

### PLASTERING

Recommended plastering in pozzolana cement

Combination mortar of 1:3:7

### OTHER OPENINGS

The opening of backyards and some places where safety is not that much important, brick jallies can be adopted. By adopting some of the above methods can void the usage of steel and avoid the nuisance of corrosion.

"A BETTER WORLD DOES NOT JUST HAPPEN IT HAS TO BE BUILT"



# GLOBALISATION VS REGIONALISM

PRF. JOSEPH N. FERNANDO  
DIRECTOR ACADAMIC  
SIGMA COLLEGE OF ARCHITECTURE

## INTRODUCTION

Today we wear pants, shirts, and shoes and adopted western medicines. Foreign food items such as pizza, burger, noodles and coco-cola have become popular. The impact of western ideology was felt on our education and culture as well. We are happy about it and think this is a modern way of life. People living in many developing countries (Asia, Africa, and South America) also experience similar changes and feel the same way as we do.

In other words the entire world is gradually moving towards a uniform economic policy, development pattern and lifestyle. Their ideals are USA and other such developed countries. Today we have many Multi-National Companies (MNCs) having production units and sale outlets in many countries. These companies influence the economy and development of the countries where they have their establishment, greatly. This is what is known as Globalization. Globalization is sweeping the worlds today like a tide. Hardly any country has escaped this tide.

## IMPACT OF GLOBALISATION

There are certain benefits as well as loses to the nation and societies due to globalization. The benefits are, the nation gets new investments increased employment opportunities, world class products and services and latest technology, easily.

The loses are for the local products and services, they lose their demands and as a result of local traders and craftsmen suffer. Foreign goods are brought into the country leading to the losses in local industry and cultivation. All these would lead the countries to depend more on Multi-National Companies (MNCs) and on foreign aids. Ultimately a developing country would become a market for products marketed by Multi-National Companies (MNCs).

The worst danger due to globalization is cultivation, construction and performance of social activities, ignoring the local conditions requirements and preferences of the people of the country. This would lead to the disappearance of local culture tradition trade and identity, besides causing ecological problems.



## IMPACT ON ARCHITECTURE

Architecture is affected by globalization in two different ways.

1. Younger generation of architects impressed by globalization, draw inspiration from modern building of USA or Europe for their buildings in India.
2. Many building materials and equipment marketed by MNCs have flooded the market some of them are not suitable for our environment .But carried away by advertisement , architects and builders use them.

## DESIGNERS CHOICE

As in the first case the architects draw their inspiration from foreign building they overlook the context of the building to be designed and the climate. As a result the building would face problems at site level and building level. Often experienced problems in such case are heavy consumption of power. Adequate comfort condition is not achieved even after heavy power consumption.

## MARKET SITUATION

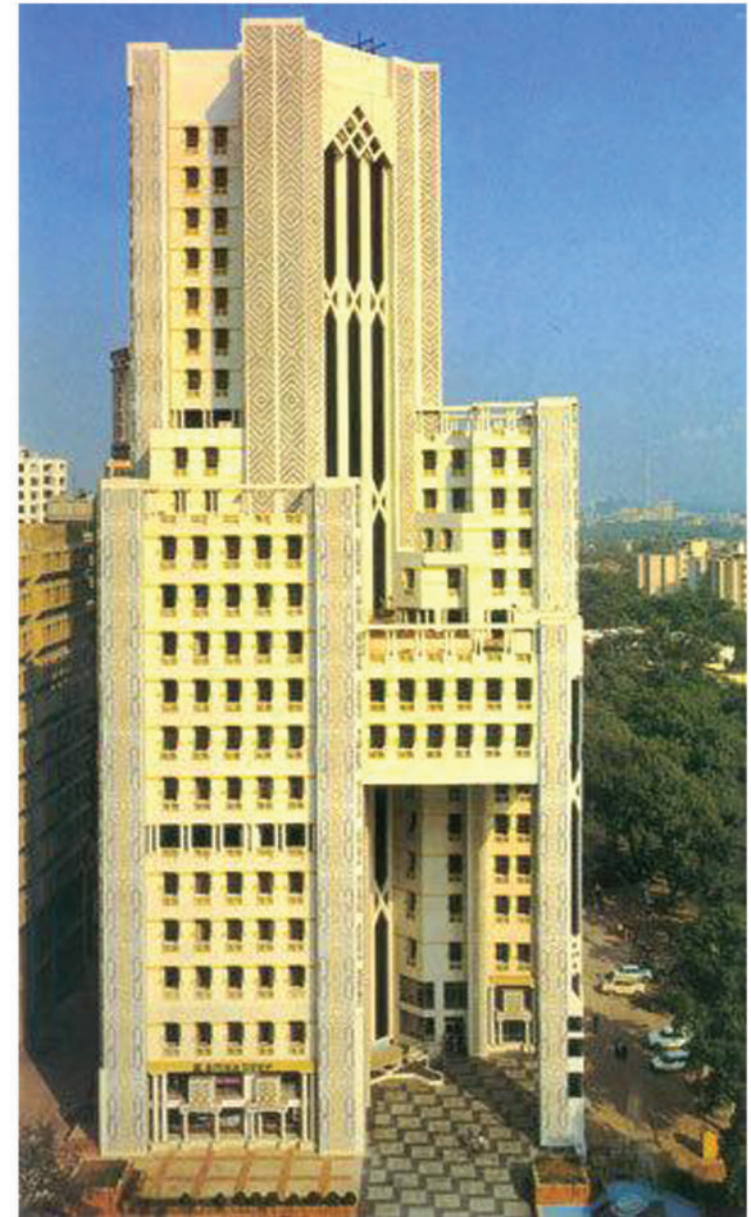
In such buildings the form of the interior spaces of the building do not match with function. i.e. either additional spaces are found or the spaces are inadequate.

As far as building materials are concerned a variety of sheet glasses are marketed today. Architects inspired by western styles go for extensive glass facades. Some architects have designed even fixed glass facades like western countries.

Extensive use of glassfacades causes green house effect inside the buildings which causes discomfort. To solve this problem the interior spaces should be air conditioned. These air conditioners should work continuously to ensure comfort.

## NATURAL LIGHTING

Natural lighting is another issue in the buildings influenced by globalization. The depth of public buildings are greater, the interior need to be lit by artificial lighting, even during the day times. This increases the energy consumption of the building substantially. This is quite an irony because natural lighting is available free of cost, almost throughout the year, it is not utilized fully.



## SUSTAINABILITY

Most of the buildings inspired by western architecture and built in India are not sustainable either. The reason for this being is, they are neither energy conscious nor designed to suit the context. In many cases the materials used in these buildings are also not eco-friendly. It is also found that these types of buildings contribute substantially to global warming.

Hence the impact of globalization on architecture is adverse and causing concern. If the present situation is permitted to continue, the country would face problems related to public health, depletion of energy and environment besides sustainability.

The answer to this problem lies in designers giving importance to the place of construction of the building, its context and elements of nature.

## REGIONALISM

These are basic principles of architecture called Regionalism. After the World War-II international style (of architecture) became the most popular style in a region bounded by San Francisco in the west and Tokyo in the east, Moscow in the north and Milan in the south. The international style is characterized by rectilinear geometry and the use of glass, steel and concrete.

## THE ORIGIN

But architects such as Louis Khan, Alvar Alto and Aldo van Eyck refused to accept the international style of architecture. These architects gave importance to the place of construction of the buildings, its context, the climate, user psychology and the local vernacular architecture. They gave importance to vernacular architecture because it provided information of time tested solutions to climatic issues and effective use of local building materials.

It is from the principles and practices of these architects, the style known as regionalism was evolved.

*“Globalization adversely affects architecture in the name of modernity unsuitable buildings are being built in India. Regionalism is the effective way of controlling these defective trends.”*

## APPLICATION

Every building designed by architects of regionalism appears distinctly different. This is due to the fact that the designer gives importance to the context, climate and the aspiration of the user. Regionalism can counter the ill-effects of globalization. When the architects give importance to the place of construction, suitable materials of construction and construction techniques could be decided. When the context is considered suitable supply and disposal system could be worked out and the new building could be harmonized with surroundings. This way the buildings can be made sustainable.

When the architects pay attention to the climatic conditions of the region while designing the building the building could be made comfortable inside and energy efficient.

When the designer gives importance to aspiration of the uses of the building and the culture of the region, the building could be made more acceptable to the user and continuity in architecture could be achieved.

Indian architect Raj Rewal and Karan Grover, practices Regionalism.

## CONCLUDING NOTE

Globalization adversely affects architecture in the name of modernity unsuitable buildings are being built in India. Regionalism is the effective way of controlling these defective trends.



## LETTER TO MY STUDENTS!

-Ar. Vijay Vinithan  
HOD



Once I was sitting in the lawn,  
Thinking about architecture at the dawn,  
The word "poverty" come into my mind,  
Then I think that the world is blind,  
If you ask a poor man,  
Define architecture if he can,  
What is space, what is form,  
What is innovation what are the norms,  
We all know what he will say,  
So let all of us together pray,  
Life is tough & life is hard,  
For some people it is sad,  
They don't know what anthro means,  
Because lots of them live under tin,  
So are we doing something for them,  
Or, just working for the fame?

# FRESHER'S DAY

2016-2021

*A NEW BEGINNING...*

College days play an important role in everyone's life. Our first day of college was filled with excitement and curiosity. We had an unforgettable fresher's day on 10th august; we were excited to see the beautiful landscape and a peaceful college campus. Seniors welcomed us with their cameras capturing mixed emotions of us.

We had an interactive session with the head of the department on 'architecture and its form'. Even though it was a new place, we quickly adapted ourselves with the environment, new friends, and new life style venturing into the world of architecture.





# COLONIAL ARCHITECTURE OF MACHILIPATNAM: THE EUROPEAN-TRADITIONAL BLEND CHARACTER-AND ITS CONTEXT TODAY

-Ar. Indhira Kolli  
Principal



## EUROPEAN-TRADITIONAL BLEND CHARACTER

### INTRODUCTION

The various influences in the region have resulted in the molding of Machilipatnam into a unique place with culture and civilization that was a comfortable blend of myriad strains.

The place is a classic mixture of a mixed culture and this culture is no where more exemplified than in the settlement patterns and the built fabric. However, as elsewhere, Machilipatnam people are aware of neither the historical importance of their town nor the remains of an interesting past - the built heritage that is still widely in exist in the town - the co-existence of competitive colonialists.

Conservation in this town would not merely be of a building, a complex or a street. The town itself is a place that is replete with interesting travesties in architecture thus it is in need of preservation for posterity.

It is my intention to unravel the causative process that led to the emergence of Machilipatnam, understand the specific elements that went to make the cultural and architectural mosaic, the reasons for the fading of its past glory and present state of neglect and evolve guideline to facilitate conservation of this built heritage.

A close look at the town pattern reveals that while the town square called the Robertson square is a prominent area. The different localities are not only referred to by historical names but even display a historical character in terms of street character, building facades and street line.



## STREET CHARACTER

The street in any town is a symbolic representative of the fundamental character of the community and its historic past. The street has a commercial entity in terms of trade and a sphere of social activity in terms of residence, stands as a composite symbol of a culture that evolved over the centuries. It is nowhere more true than in Machilipatnam which is a town that has been a primarily a major trade Centre.

The streets in the various areas of Machilipatnam displayed distinct character in accordance with the settlement pattern.

## EUROPEAN-TRADITIONAL BLENDED CHARACTER

In the Muslim quarter, the streets are irregularly formed but are wide. The street-line is continuous and uniform as high compound walls line the streets on either side. The houses with sloping, tiled roofs, are inside these high compounds. The compound walls are high with a central gateway, solid with narrow slits serving as a tiny view-window. Muslim women were expected not to cross this entrance and generally peeped out of the slit to answer the visitors. The door-frame as well the door shutters were made of wood carved in ornate designs.

In the Indian quarter, on the other hand, street scale varied in terms of the sky line. The building on a street are varied in appearance. Some were with an open-out corridor with European columns on the ground floor, front facing balconies with a traditional facade on the first floor. Some were the traditional house with a sloped, tiled roof and low platforms in the front that served as interaction spaces. This variety in the structures on the street lends a unique character to the street in Machilipatnam. One gathers an impression that the street is indicative of a unique, blended culture that prevails all over the historical town.

The European quarter has streets that are laid with by using advanced techniques. The street line itself is very modern.

Nothing the varied character of the streets in Machilipatnam, I had decided to study the whole town by one by one. Thus have evolved my built-form typologies.



STREET



STREET



STREET

## CHARACTER OF THE COMPLEXES:

The building complexes in Machilipatnam are in fact nothing more than a set of buildings with vast open space around them. Each of the buildings served a purpose and the group of buildings are sometimes enclosed within a compound wall thus giving it the appearance of a building complex. It is marked through entrances, approach roads and has a defined character that is common to all buildings.



STREET

In Machilipatnam, the complexes reflect the nature of the occupational structure of the inhabitants and colonialists alike. Thus the house of a trader has associated buildings like warehouses, stables, kitchen, offices, staff quarters and storage spaces all forming a single complex.

Machilipatnam as a town has various built-form patterns. There are a considerable number of buildings that have adopted the typical and common regional style that is still much in practice. But the town in its existing form has retained of its original settlement patterns. The built-form with the specific blended character is spread over the entire town from the predominantly European areas of the east to the more traditional areas of the western side.

The study examines the built-form patterns as can be seen in the existing town. The specific focus is on those buildings which display a distinct character in terms of blended styles.



STREET



TRADITIONAL DESIGN FEATURES



REVENUE OFFICE



POLICE FAMILY WELFARE TRUST



OLD COLLECTORS OFFICE

## WHAT IS HAPPENING TODAY TO THIS CULTURAL BUILT HERITAGE OF MACHILIPATNAM?

### BUILT-FORM TYPOLOGIES

- 1) House with high compound and a central gateway in a vast open space.
- 2) Building in a complex with three uninterrupted halls in H shape. Colonnaded verandah on either side. Square columns. Verandah with sloping roof.
- 3) Building with pointed arch projection on front projected room of the back. Open-out verandah on all sides with wooden posts. Double-height roof.
- 4) Front verandah with side rooms and also central hall with side rooms. Front hall short-columned arched openings. Plinth faces plinth.
- 5) House facing a street having square colonnaded verandah. Double, rooms on the side long corridors, different levels of openings, Central, long pitched roofs.
- 6) Building with three rooms and open-out verandahs and double colonnade. A wide entrance, low-level plinth, double-height pitched roof.
- 7) Building in huge complex, long halls. Interrupted with huge Gothic arch. Sides with narrow, painted arch.
- 8) Building in a complex. Large entrance foyer. With large halls in front and back. Large arch way colonnaded on all sides. Low-level sloping roof, short, blunt columns. High doors. First floor with terrace at the back.
- 9) Building with side verandah. Front has short columns, arched openings.
- 10) Building with square projection having long columns, flight or steps, front verandah with side rooms, Central pitched roof.

### PROBLEMS, ISSUES AND CONCLUSION:

#### PROBLEMS AT VARIOUS LEVELS:

Irrelevant new development

New development not suitable to historic context,

Encroachments

#### ISSUES

Lack of government concern

Lack of heritage awareness,

No regulations, no strictness imposed,

No existing policy of town level, lack of technical experts to guide transformations, and absence of policy.

In conclusion, the Government can be taken action for the above issues and formulate the heritage responsive strategy for MACHILIPATNAM.



# BATCH DAY

2015-2020

*TO AN YEAR WHICH  
MADE A DIFFERENCE...*





## THE RADICAL ARCHITECTONIC

Ar. Shynu Robert

In search of the purpose of architecture and its purest way of truthful influence over the community, the kind of language for its way of communication through the forms is an ultimate ideology behind the architectural practice which has to be maintained as an architect. The power of language to communicate through the art of architecture is an intellectual way in which it has to maintain by its own grammar, because good information can only transfer the effective ideas in the form of architecture or any kind of its built forms.

The visual communication and its intangible effect over the society which leads to the most advanced life has to be maintained from time to time. As an architect as well as human being, the duty to promote the efficiency to a particular group or community by developing an effective built space on a defined area by promoting communication through the architectural development.

The kind of language used by the Swiss architect Le Corbusier through the forms, which promoted a new way of thinking in conversion of a usual space into an influential space by means of phenomenological approach. The organic forms and its deviating light quality over that particular space and its possibilities which lead to influential change on thinking process rather than orthodoxal way. But when elaborating the work of Le Corbusier 'Radiant City' which tried to explain the utopian thoughts, the practicality does not achieve by its function. It may be due to the lack of technology over that time period as well as the social thought process.

As an architect we shall not limit our focus in architectural thought process but also in philosophical communication in which it has maintained the function of a working community by century. That is the influence of communism which was forwarded by the German philosopher Karl Max, through his philosophical work 'Communist Manifesto', but demands all.

The struggle to maintain the working class on a society can be seen through his community ideology, but this orthodoxal concept has been rewritten in a radical approach by German sociologist Niklas Luhmann. He tried to introduce the chance which can give an effective community through the use of communication by all possible manners. The good mannerism of a communication is its effective transfer of information which can deliver equality over the society due to its end product by the communication.

The traditional way of utopian thinking where criticized due to its practicality and functional aspects. The main issue which faced solve its existence is lack of its vision in a realistic approach. The existing example to justify the utopian approach is 'Archigram', which was an Avant-grade architectural group formed in the 1960's based on the Architectural Association, London. When justifying the influence of art over architecture in its beginning stage, its pure intention was to deliver information by using the medium in the form of art.

But now art is just used as part of the survival instinct. Only a rare group is still struggling to deliver information in art and architecture which can promote an advanced space for a limited community in this century. But its practicality and energy demands always remains as questions in front of them.

Deviating from this radical thoughts, the only chance or hope to attain the utopian approach and to maintain a high efficient intellectual group, can be promoted through a virtual architectural development and approach in which its communication language has to be applied by means of Avant-grade art and technological skills in good grammar. The communication which delivers all the information through all kinds of freedom. Imagine the scope of interconnecting virtual space and social media by networking.

# BATCH DAY

2014-2019

*TWO YEARS OF STRIVE TO MAKE  
THE WORLD MORE LIKE OUR DREAMS...*





## OVERLAYING STRUCTURE WITH ARCHITECTURE...



Structures and architecture is what comes to mind when one intends to initiate a construction. These two professions work side by side, relying on the aid of one another to complete a task. As a profession, structural engineering and architecture are similar as it involves in design and implementation of structures. However, these fields have different set of priorities and perspectives. Architect's prime concern is designing the project while structural engineer's responsibility is ensuring that the design is implemented in safe and reliable manner.

Structural engineers have an upper hand to architect's flow of creativity and design while working on major projects like skyscrapers (Burj Khalifa etc.), public infrastructures (Harbors, Dams and Railways) and industrial buildings, where stability struggles to complete with structural sleekness.

In a gist, what takes an architect to completely evolve in his field of practice is to have the knowledge of structures and its application in design.

V. X. James Alban, M.E  
(Civil works & structural consultants)



# OUR MENTORS



*MENTORS WHO PAVED OUR WAYS INTO ARCHITECTURE...*



## BLOOD CURDLING DESTINATIONS....

Shini.K.Shajan, 2nd year

Horrifying buildings re-imagine the possibilities of architectural language, shifting from "natural" norms to other, more rarified and exciting options. They define an expanded aesthetic field that marries the beautiful, the distorted, the awkward, the manifold, and the indeterminate.

'House of the Devil' seems to depict the creepy house aesthetics seen in countless horror movies. However, this movie differs by effectively creating tension and isolation with the use of light and shadow. Darkened stairs and halls seem to go on forever and characters are framed by architectural elements, enhancing the feeling of being trapped in the built environment.

Using theatrical set design influenced by German Expressionist films, 'Night of the Hunter' creates visually striking scenes that embody moments of unease. Exaggerated architectural elements that look more like theatrical sets, along with light and shadow create environments that reflect the mental state of the characters and effectively heighten the tension for the viewer.

Every land silently speaks out its own beauty within its harmony. Language of nature conveys its majesty and incredible sense of beauty and to spaces that feature inscriptions referring to the landscape tradition in art together with countless bits of conceptual and philosophical places.

Landscape architecture endeavored to establish a new, authentic connection with the natural environment. From research, we observe a usual reference to painting and poetry completed by direct observation of the various environments. With the decline of the rule of classical representation of nature, traditionally expressed by the Italian garden or English park, we observe the rise of several options. Landscape means a great deal and its definition has been extended precisely in order to absorb the conflict interaction between human activity and environment.

Landscape architect Dan Kiley himself expressed his approach to landscape design a number of times, using the smile of a walk to explore the nature, where everything is real, and through dynamic experience alters the settings, and features. Rem Koolhaas in his works created an urban development that tends to exacerbate complexity, taking it to a magic point where problems become potentials.

Thus stunning landscapes always creates a new ambience for mind and provides a refreshing experience. Landscapes using natural material and construction in a natural way always enhance the beauty of nature.

# THE GROOVY LANDS...

Shimi.K.Shajan, 2nd year

## A LENS! THE EYES IN YOUR HANDS THAT TELL YOUR STORIES TO THE WORLD!



Asif Ali Nas  
S9, Aspiring Photographer  
<https://destinations4frames.wordpress.com/>  
5th year

This is an excerpt for all the enthusiasts who want to entail in photography. First & foremost, you should be aware of the world around you. There is so much to explore, so much to experience, so much to gain & lose. There are numerous events happening right before our very own eyes. Some on a macroscopic level and some on microscopic. All you need to do is PUT YOUR BACK INTO YOUR INTEREST IN PHOTOGRAPHY! You should have your own interest in photography to get that one impossible shot!

Right before us, there are many events unfolding. Some of these will stay hidden forever unless you, my dear "lens-bearer" choose to find & unlock it! Some secrets are meant to be unlocked & shared with others, whereas some should be kept to yourself. Know this, when you look at the world through your lens, a different world unveils itself; a magical world of unsaid words, of hidden emotions & of dangerous intentions.

What you see through your lens is your world of subjects. The emotions & stories you capture immortalizes and will be different from everybody else's. When you capture a frame through the lens, you are capturing someone's memories in a 2D picture. Don't forget that.

Now, what is the importance of photography and travel? Surely a person who travels and explores the world has a different perspective in life. In this case also life is similar to your lens. "THE LIMITATION IS NOT IN YOUR CAMERA, IT'S IN YOUR MIND". Variety frames and subjects can be observed by the changing views of earth in different places. It will not be same even in the same place.

Time is valuable for a photographer in his life. It is not as simple to capture a shot with a particular time. Some needs day, some years; it can never be predicted for the perfect frame. And I cannot say every frame is a perfect picture, it's in the composition. It's the life of seconds and light.

Don't fret! Nobody gets it right in the beginning. Click, Click, Click, you will find the perfect frame and perfect light. Photography cannot be taught it has to be gained through practice. Without doubt, the hardest skill to master for this type of photography is the art of knowing where you need to be. This comes with experience, but photographers who want to capture story-telling images need to have the confidence and the action. "Getting the photo" is like a rugby scrum; you have to get the ball and you have to get out. That's the way you have to look at it!



# ONAM

A BLEND OF GAIETY AND CULTURE...



## THE FIRST EXPERIENCE

Travelling gives good experiences and helps to learn new things. We travelled a long way from Sigma campus to Chennai for our first case study. On the first day we had an interactive session with Ar.Murali in his office on how to design a kid's bedroom and a kiosk. We then studied his client residence at Gerugampakam. It was a beautifully designed sophisticated residence. Then we proceeded to Phoenix Mall to study commercial kiosks.

The second day we visited another one of Ar. Murali's client's residence at Pallavaram. Then we went to a 'Tamil' themed restaurant named Zha café, at Porur. The next day we went to Mahabalipuram and were astonished by the massive Pancharathas, Arjuna's penance, Krishna's butter ball and the Shore temple. We also visited the majestic temple in Gangaikondacholapuram.

It was the last day of the trip. We went to the Airavadeeswar temple in Kumbakonam. We had a great time experiencing the Hindu culture. Each place welcomed us with great stories of past.

Thus the travel ended up with a lot of memories and delightful moments.....

Aishwarya  
Parvathy  
1st year



# A TRIBUTE TO "QUEEN OF FLUIDITY"

The lady who fulfilled the thoughts and concepts of deconstructivism through her unconventional thinking, dynamic proposal and sculptural built forms which stands out as an iconic structures in the perspective neighborhood.

She was the first women to receive the pritzker architecture prize and has won many more awards which added honor to her name.

She liberated typical architectural geometry by creating highly expressive sweeping fluid forms of multiple perspective and fragmented geometry which evoke the flux of modern life Her design skills gave a new dimension to architecture in terms of condulating, bifurcation and fold of inflection, and gave us the belief that "nothing is impossible" in architecture

## HER SIGNIFICANCE

She was the new change that she wanted to see in the architectural world.

Zahas significance is highly esteemed of being a monumental innovator.

The design freedom she created in composing the space is being radically expanding.

It will be challenge for the next generation of architects to achieve beyond her surpass curves.

**ZAHA HADID "SCULPTURAL FLUIDITY"**

- MUNISH BABU B.Arch Fourth Year.

# ARTIFICIAL INTELLIGENCE IN ARCHITECTURE

Sourav.S.R ,1st year

We all are running towards 2020.The future has been foreseen by great minds. Our beloved APJ Abdul Kalam is one of them. Our future is in the hands of technology. Humans found machines to simplify their works and to enhance the preciseness of their ability.

*"Intelligence is the ability to avoid doing work. Yet getting work done"-Linus Torvalds*

Artificial intelligence (AI) is the most recent 'big thing' in science- the developed computer systems that have the ability to perform tasks requiring human intelligence such as speech recognition, decision making, translation, visual perception etc. Coming to the scope of AI in architecture, what it can make could only be decided by a human brain.

Since they are machines which cannot think themselves, let it alone aid us.

*"Artificial Intelligence is whatever that hasn't been done yet" -Larry Tesler*

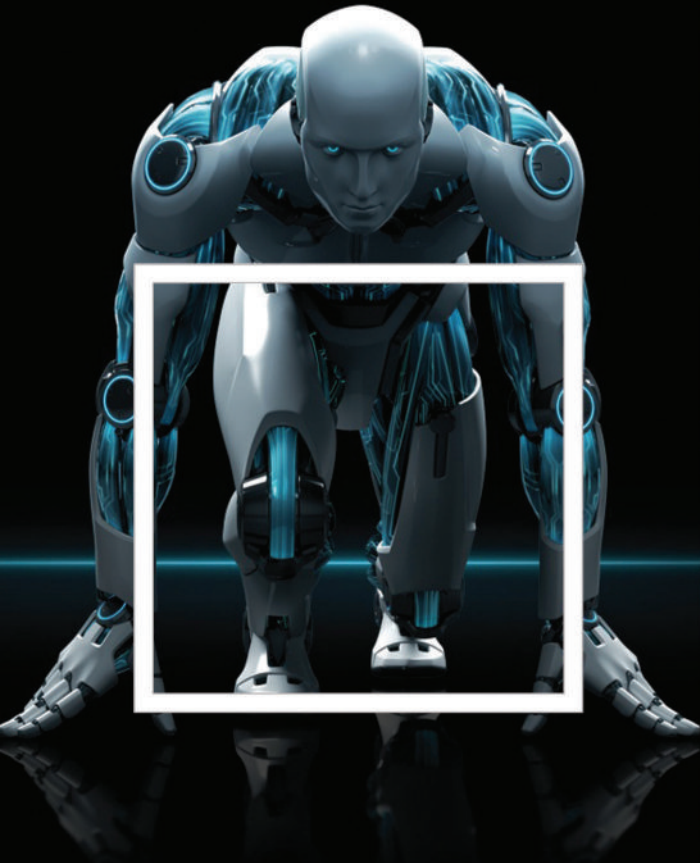
In 1969 the architect Nicholas Negroponte published a book titled 'The architecture machine'.

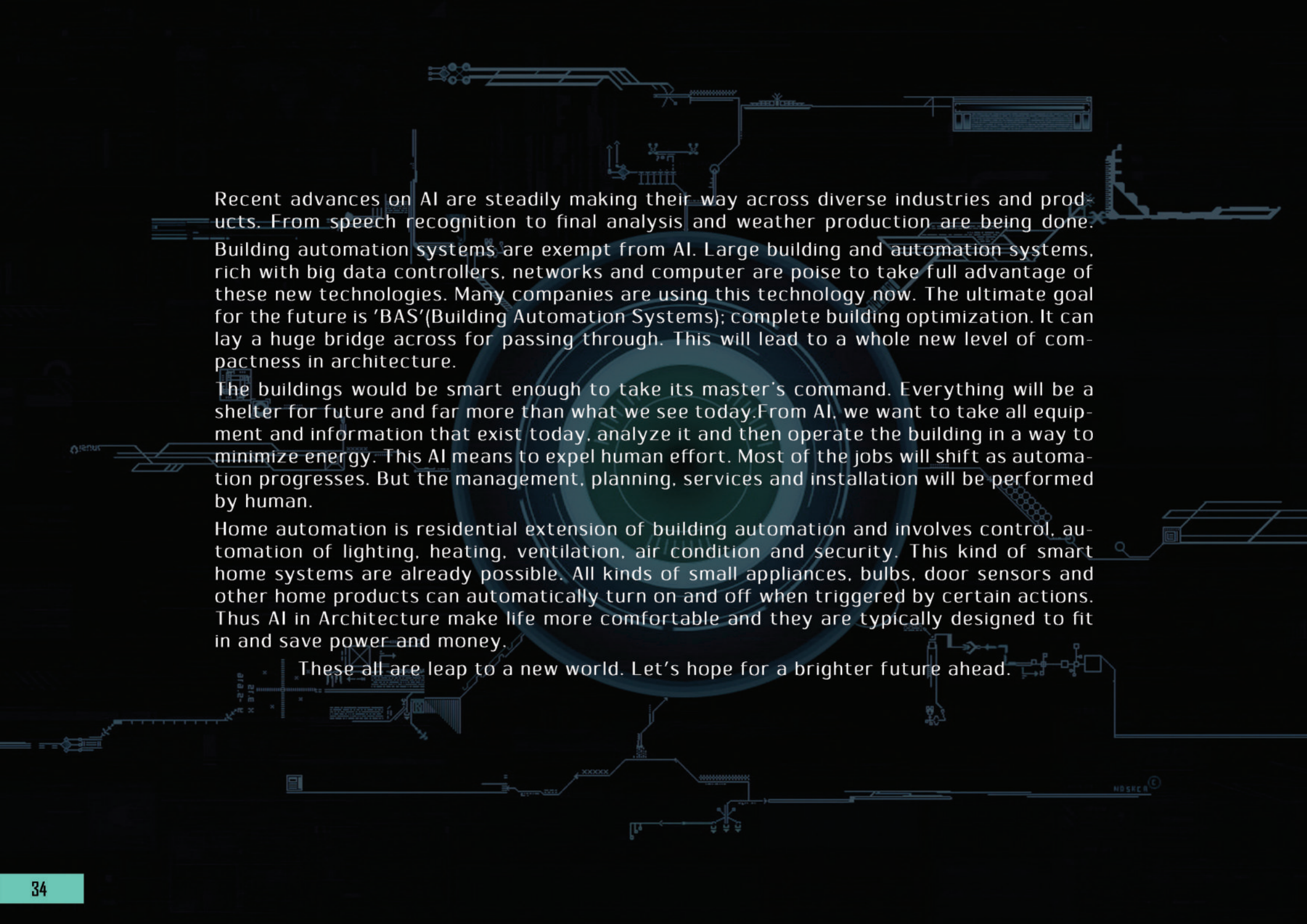
It speculated on various possible features for architectural computing, setting out possible ways in which machines could assist the design process:

\*Current procedures can be automated, thus speeding up and reducing the cost of existing practices.

\*The design process considered as evolutionary, can be presented to a machine, also a mutual training, resilience and growth can be developed.

*"You may not realize it. But Artificial Intelligence is all around us" -Judy Woodruff*





Recent advances on AI are steadily making their way across diverse industries and products. From speech recognition to final analysis and weather production are being done. Building automation systems are exempt from AI. Large building and automation systems, rich with big data controllers, networks and computer are poised to take full advantage of these new technologies. Many companies are using this technology now. The ultimate goal for the future is 'BAS'(Building Automation Systems); complete building optimization. It can lay a huge bridge across for passing through. This will lead to a whole new level of compactness in architecture.

The buildings would be smart enough to take its master's command. Everything will be a shelter for future and far more than what we see today. From AI, we want to take all equipment and information that exist today, analyze it and then operate the building in a way to minimize energy. This AI means to expel human effort. Most of the jobs will shift as automation progresses. But the management, planning, services and installation will be performed by human.

Home automation is residential extension of building automation and involves control, automation of lighting, heating, ventilation, air condition and security. This kind of smart home systems are already possible. All kinds of small appliances, bulbs, door sensors and other home products can automatically turn on and off when triggered by certain actions. Thus AI in Architecture make life more comfortable and they are typically designed to fit in and save power and money.

These all are leap to a new world. Let's hope for a brighter future ahead.



# SAMBA FACTION FOOD & MUSIC FESTIVAL

ITS MORE THAN JUST MUSIC...

# A SERENE ENTICEMENT

THALAKULAM



It's a historical spot that speaks esteemed stories of past decades. Village- style camp for those who love isolation, intrigue and enough dramatic landscapes and experiences to keep conversations peppered with colorful adjectives.

Multi-colored residential buildings bang outside the heritage structure hastily brings back time travelers to the present. And totally it was delightful and discreet at the same time features a collection of dignified dwellings, from a high-gabled main house structures to a vast area of ordinary houses and huts. Residential house of Dalawa did have a proud past. Plant cultivation has robbed the pond nearby and charm undergrowth and thick foliage make it impossible to explore the house. Poster with a picture of the Dalawa, printed in bright Sivakashi colors, remains as it is.

Moreover, inside the gracious structures of timber and lime, there is little to indicate that this was once hometown of a warrior who threatened the British rule in Kerala. In our memories, Chithrakalamandalam-the historical museum and great statue of Veluthampi Dalawa is still alive as it was rooted deep into our mind.



# PONGAL

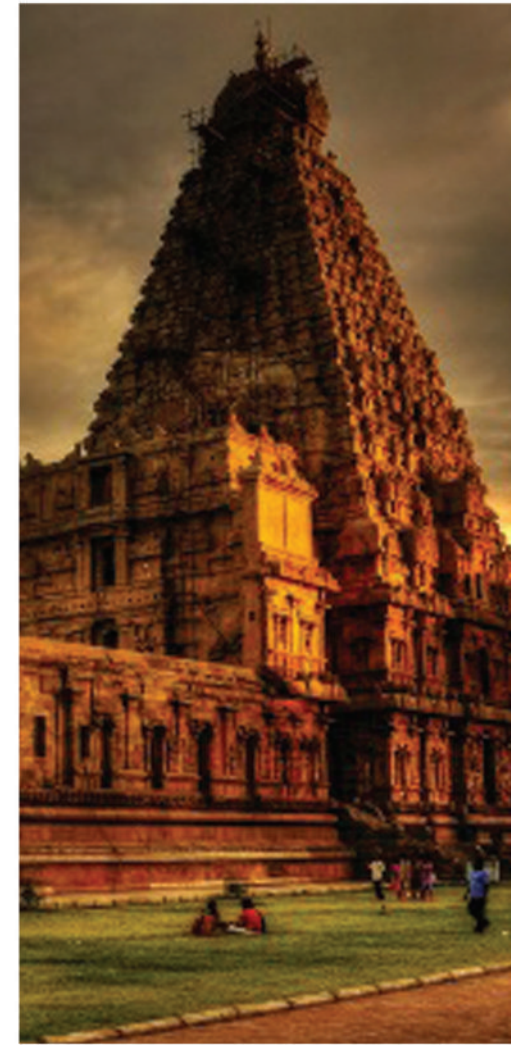
THE DAY WHEN THE SUN'S  
RADIANCE BRINGS HOPE...



## AN OUT LOOK TO INDIAN ARCHITECTURE

Indian architecture is beautifully portrayed from Taj Mahal in the north to the Thanjavur temple in the south, Gateway of India in the west to Victoria Mahal in the east. Taj Mahal still remains a world wonder. The white marbled structure clearly conveys the meaning of architecture. India has divergent culture and tradition, which leads to different types of architecture. Each type is different in its own kind. Hindu architecture emerged from mythical stories forming fluidity, sensuous curves and occasionally of dramatic twisted columns. Islamic architecture is characterised by minarets and domes, Christian architecture by bell tower, nave, and altar etc, where as in Buddhist architecture by stupas and gate entrance gets emphasized. Architecture of India is evolving with the condensed idea and polished technology on display. And by the end of this century, Indian buildings will turn into more smart ones. Beyond post-modernism, the next generation of architects, will give an interesting episode that will be inspiring.

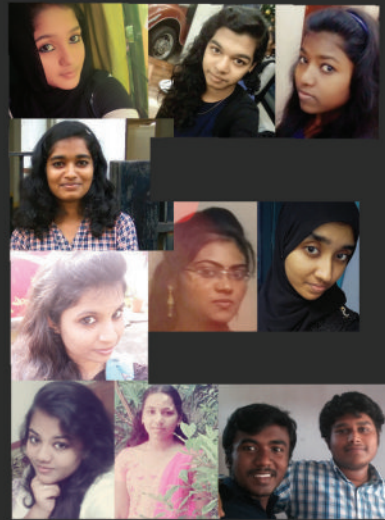
Ayshu, Parvathy, Maria Agnes  
1st year



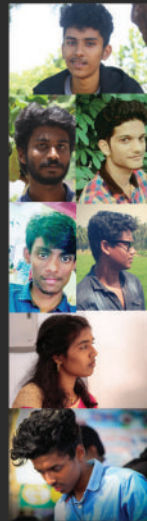


# BATCH PHOTOS





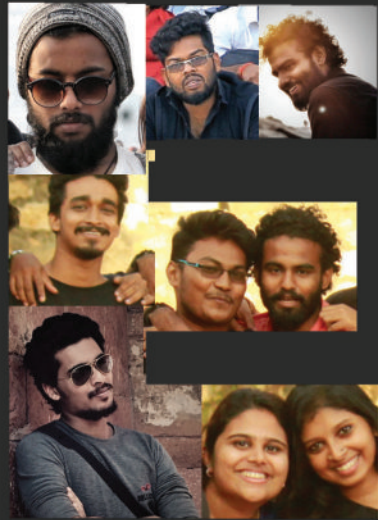
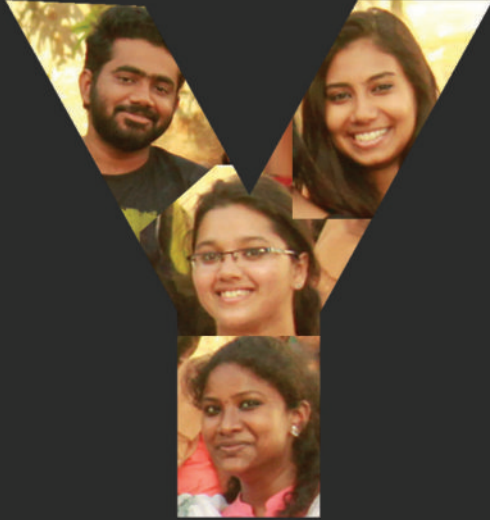
*"NEW LIFE, NEW MEMORIES; LIFE AS AN ARCHITECTURE STUDENT BEGAN WITH LOTS OF CHAOS. TIME HEALED; YEARS OF MYSTERY AHEAD..."*



*"TWO YEARS OF JOURNEY  
TOGETHER THROUGH HARDSHIPS  
AND GOOD TIMES; MORE LIKE FAMILY  
THAN BATCHMATES..."*



*"ONE MILLION MEMORIES, A HAND FULL  
OF DREAMS, JOYOUS SMILES, CLOSE TO HEART.  
ONE REASON:  
BEST FRIENDS FOREVER..."*



*"FIRST BATCH OF STUDENTS WHO ARE  
GOING TO BID FAREWELL TO SUCH. A FEW PAGES  
LEFT IN THE LIFE AS AN  
ARCHITECTURE STUDENT..."*



**YEAR  
IV**

*"AN YEAR OF EXPERIENCE OUTSIDE  
THE CAMPUS WHICH GUIDED US  
THROUGH OUR FIRST STEPPING STONES.  
LEAVING BEHIND MEMORABLE FOOTPRINTS IN SICA..."*



# ARCHITECTURE PLUS PHOTOGRAPHY

Petchimuthu, 2nd year.

Feeling proud to be an Architecture student....By the way, we are supposed to give respect to our profession. Photo frame opens its canvas to the archi-world, where we give plots to salute those 'KING OF CREATORS ART', that is known as the Architecture + photography. A capture which respects a single second of our life....especially Archie's moment.

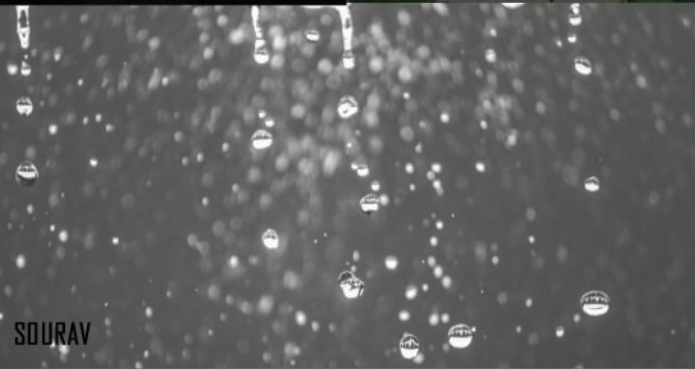
# PHOTOGRAPHY

## 1ST YEAR

RISHKESH



KIRAN



SDURAV



KIRAN



KIRAN



BALA



JITHIN



THE GREATEST BARRIER  
TO  
**SUCCESS**  
IS THE FEAR  
OF  
**FAILURE**

ABIN RAJ



MUTHU SIVAM



JOHN BRUNO



ANCY LYDIA



ABIN RAJ



FEBIN



# PHOTOGRAPHY 2ND YEARS



PETCHI MUTHU



HARI



# PHOTOGRAPHY 3RD YEARS



HARI



SAVIO



SAVIO



HARI



SHARATH



NIPIN



PAVITHRA



ASIF ALI



VISHNU



ASIF ALI



NIPIN



VISHNU



ANZY



NIPIN



PAVITHRA

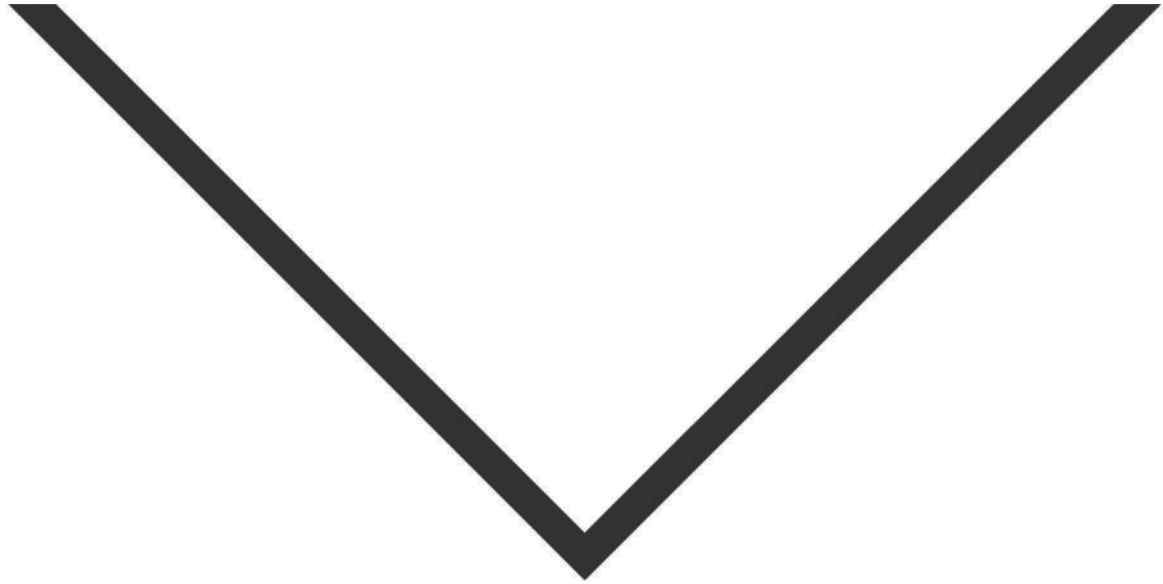


# COLLEGE DAY 2016

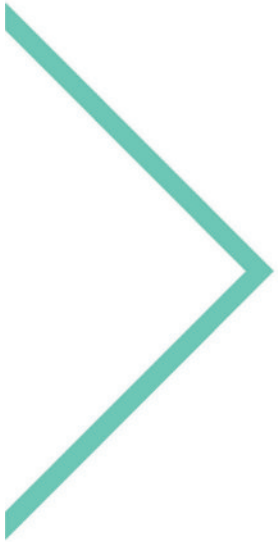
*GOOD TIMES, GOOD MUSIC, GOOD VIBES...*

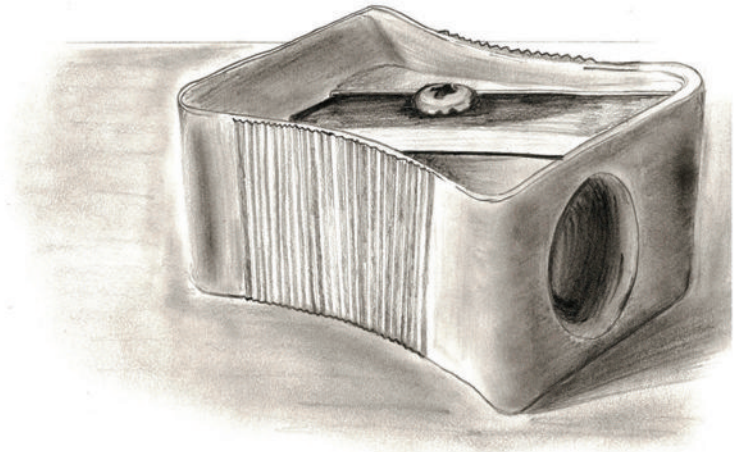
*WHEN THE SUN WENT DOWN & THE AIR  
BEGAN TO COOL, MUSIC FILLED THE AIR  
AND OUR SOULS BEGAN TO SWOON...*



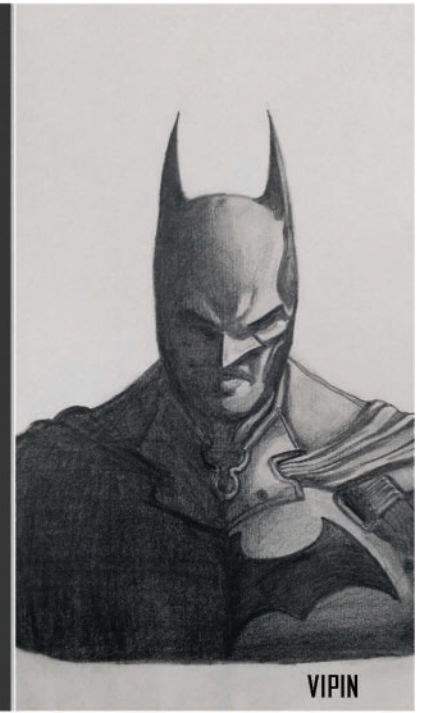


# SKETCHES

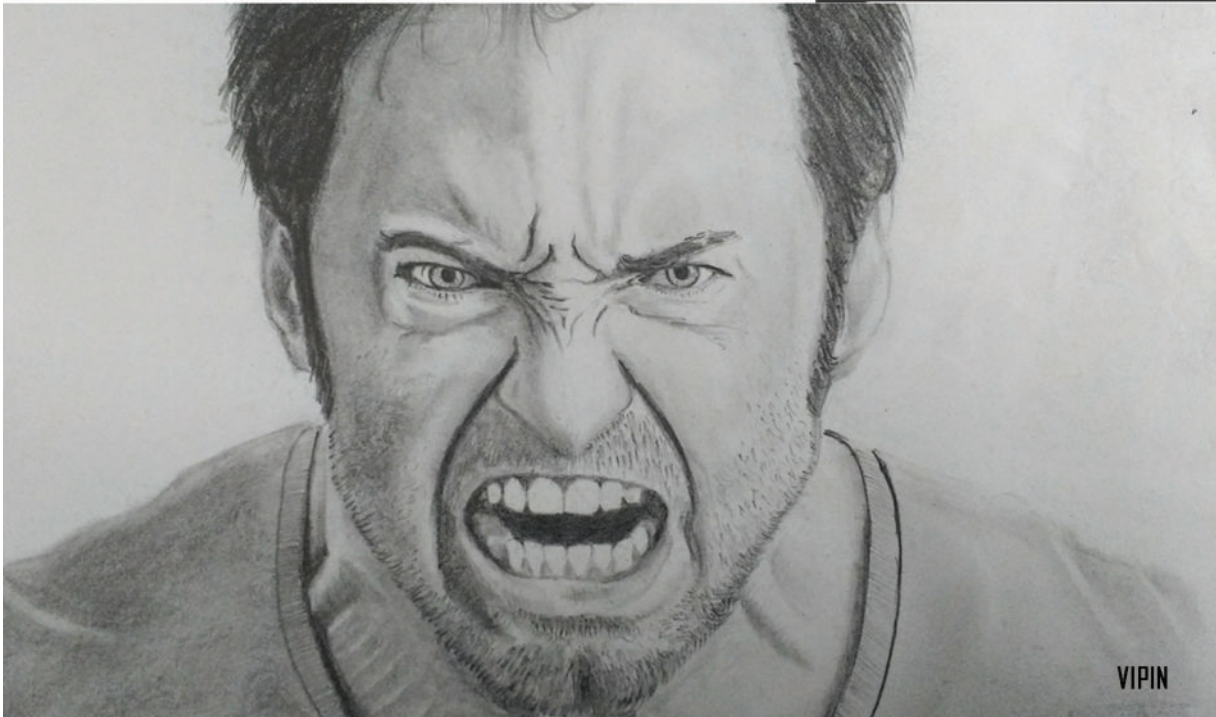




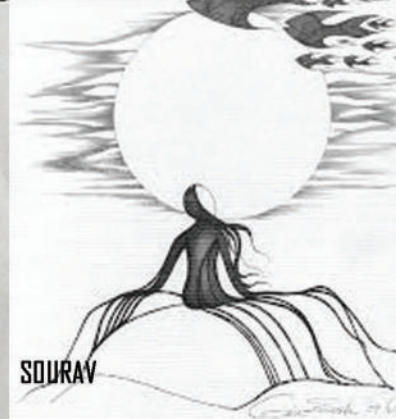
KIRAN



VIPIN



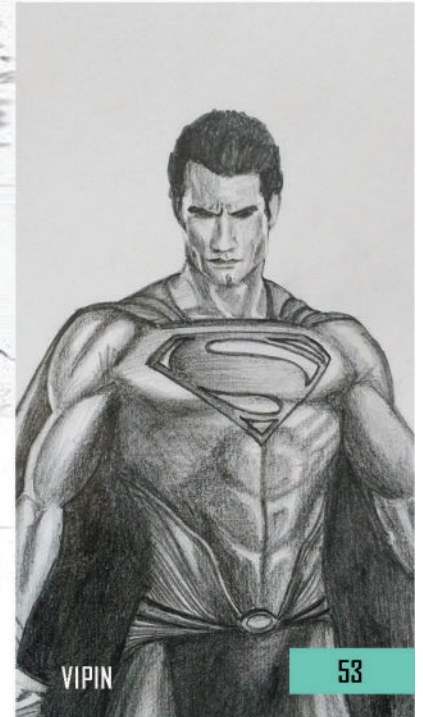
VIPIN



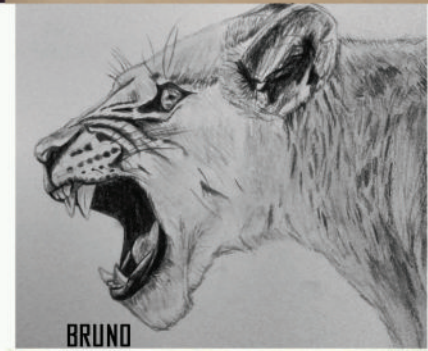
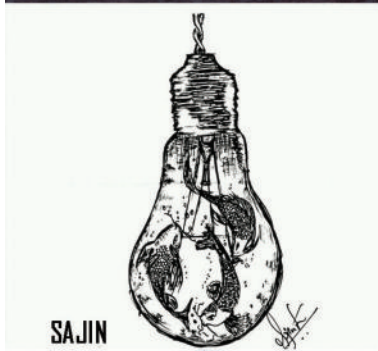
SOURAV



KIRAN



VIPIN





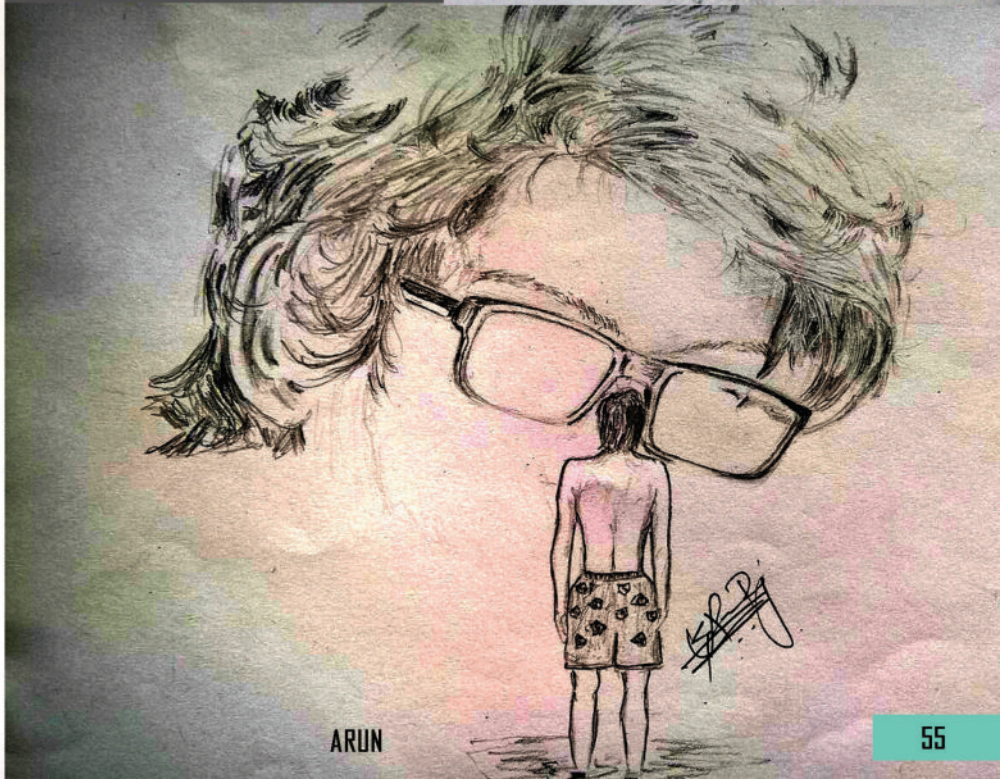
MATHANGY



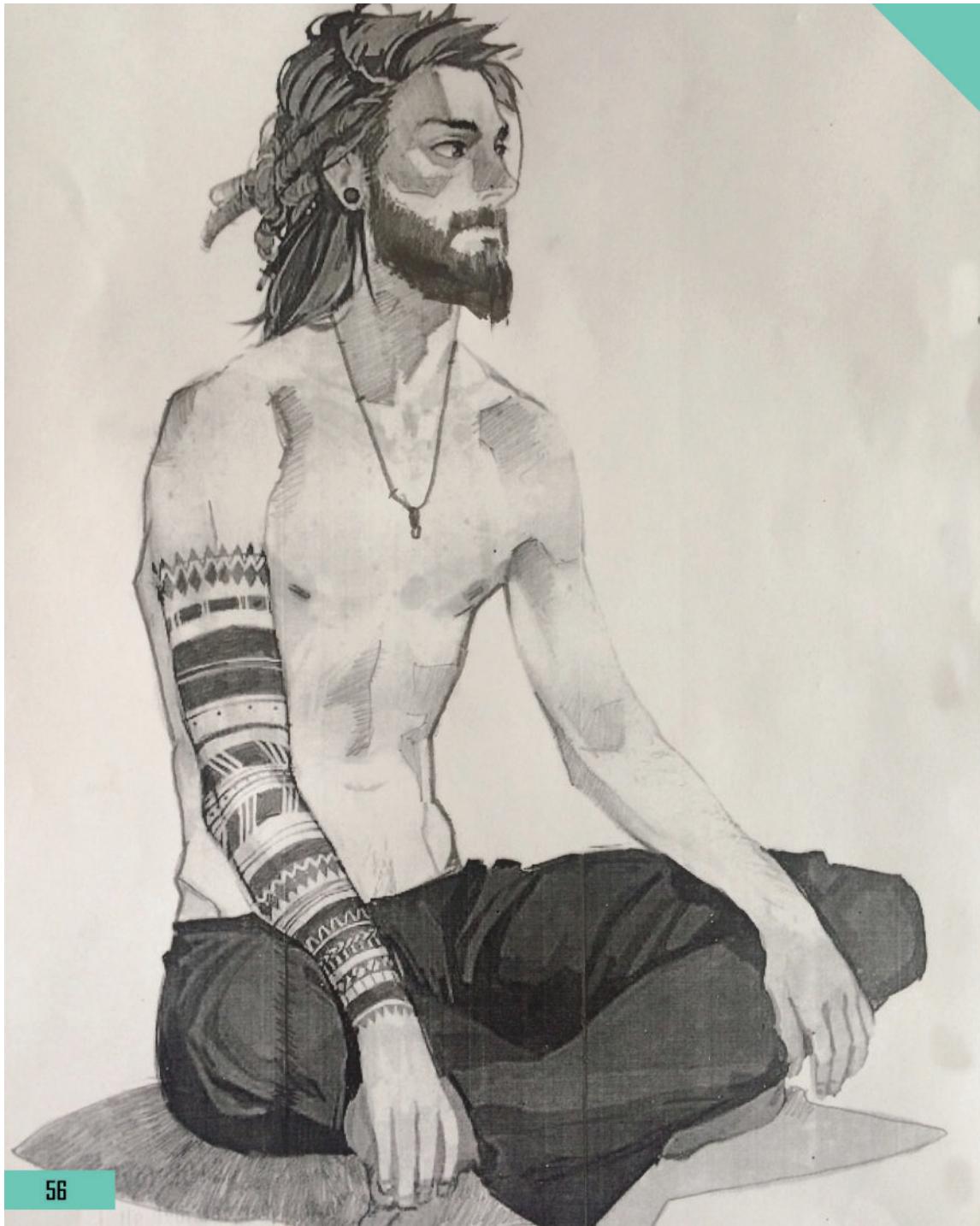
SKETCHES  
3RD YEAR



ARUN



ARUN



SKETCHES  
5TH YEAR





## SPORTS DAY

*WINNING IS NOT EVERYTHING  
BUT MAKING THE EFFORT TO  
WIN IS...*



SOURAV



SOURAV



58

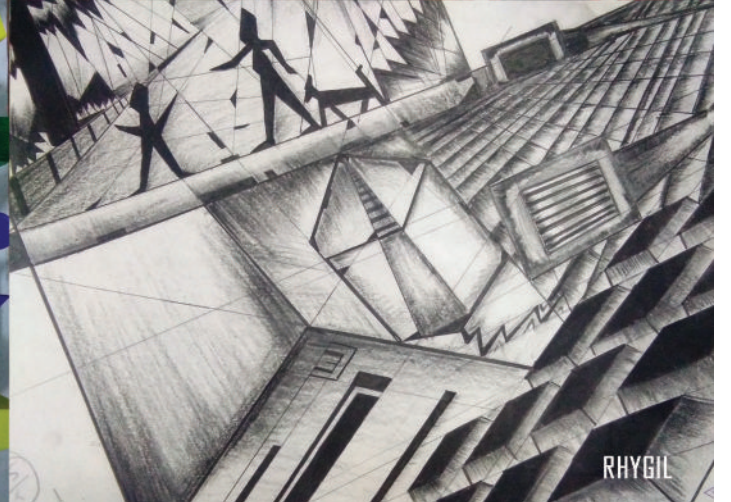
RHYGIL



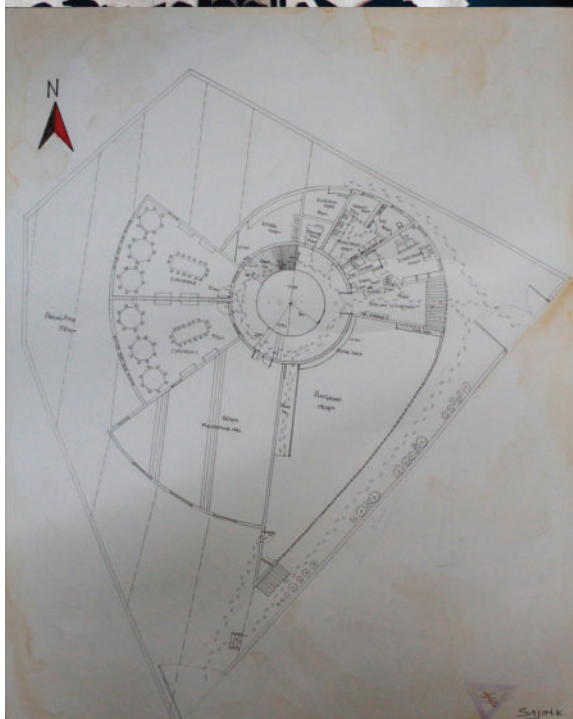
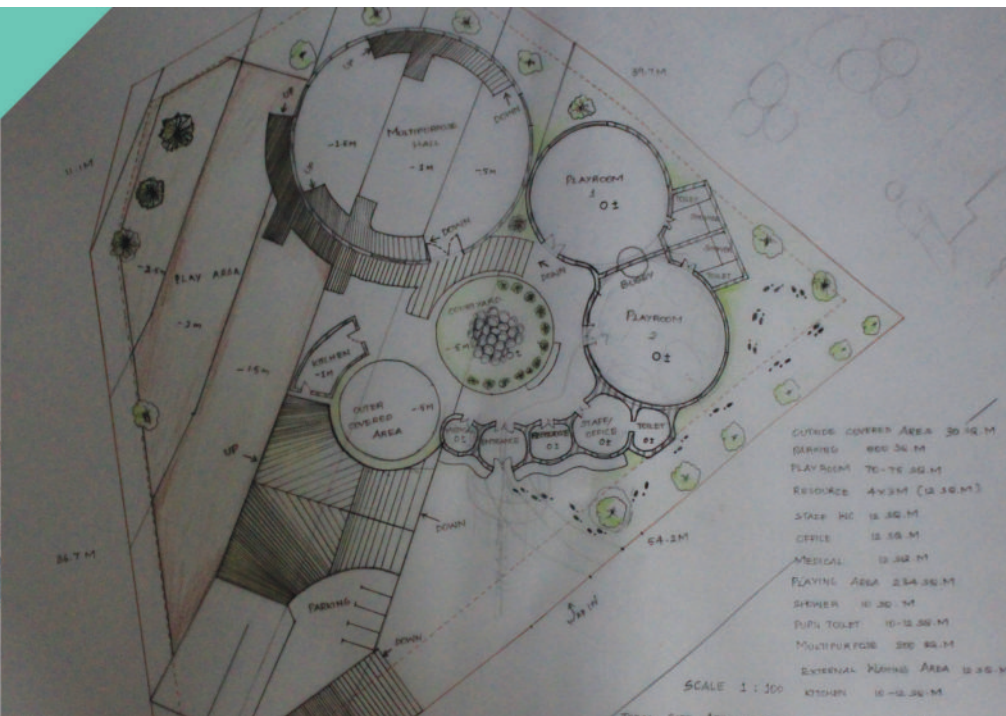
DESIGN  
1ST YEARS



SOURAV



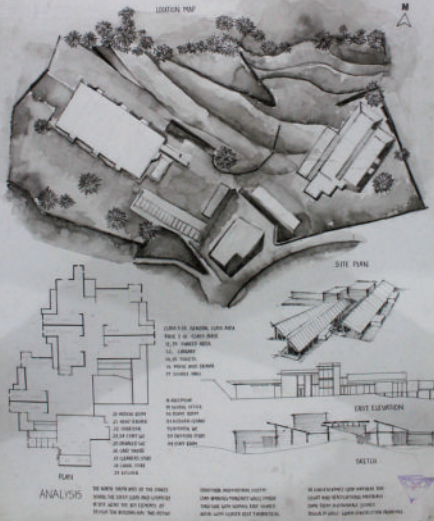
RHYGIL



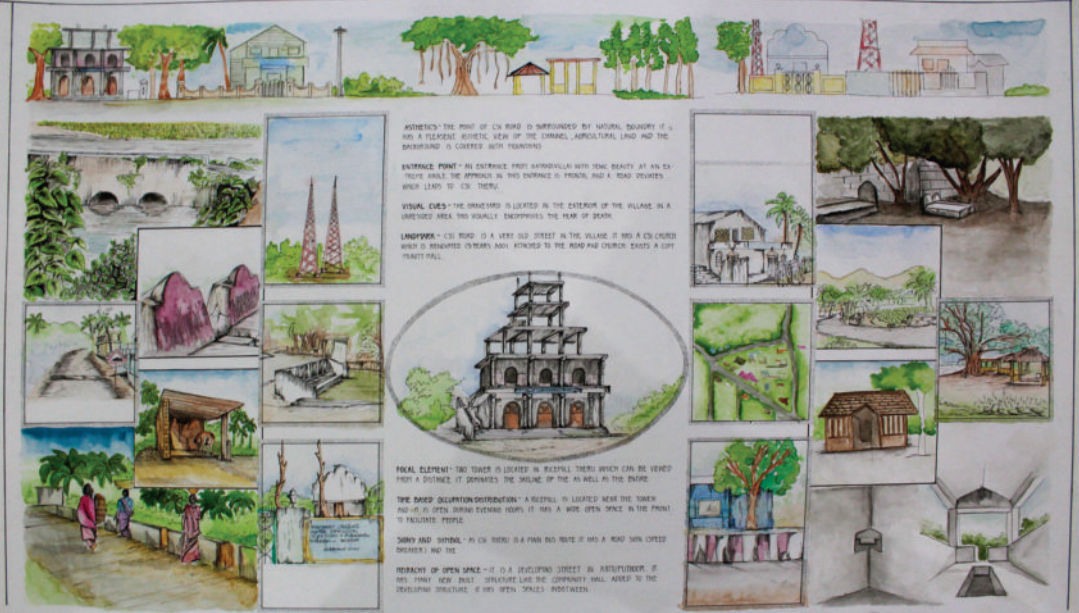
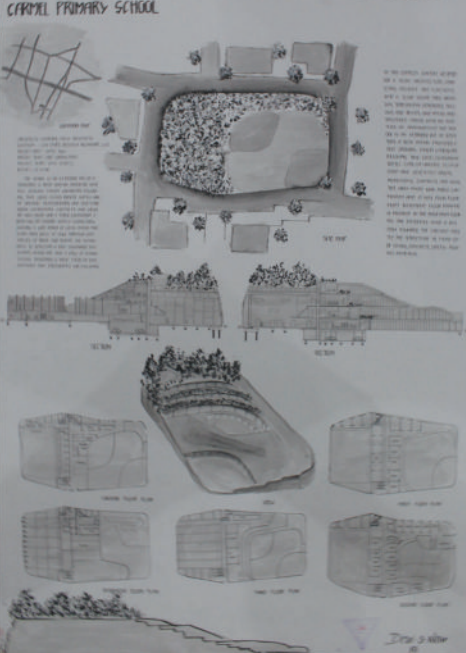
**DESIGN  
2ND YEARS**



# LITERATURE CASE STUDY

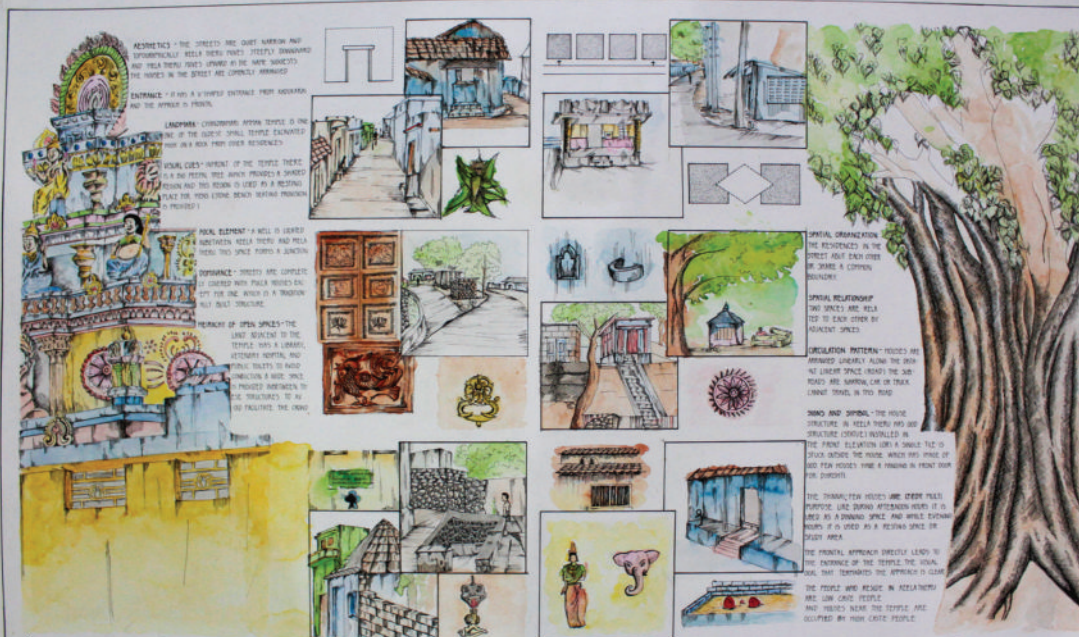


# LITERATURE CASE STUDY

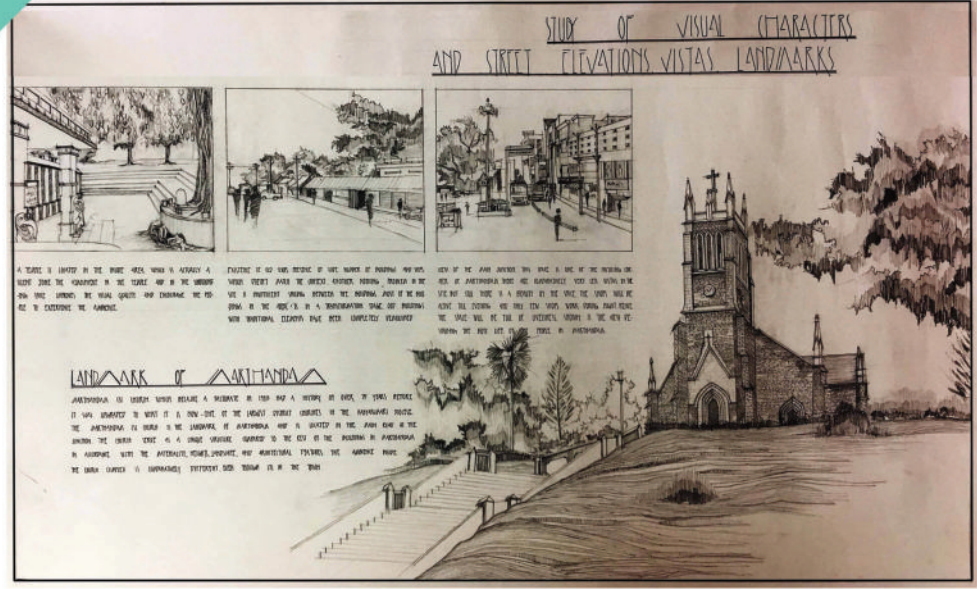
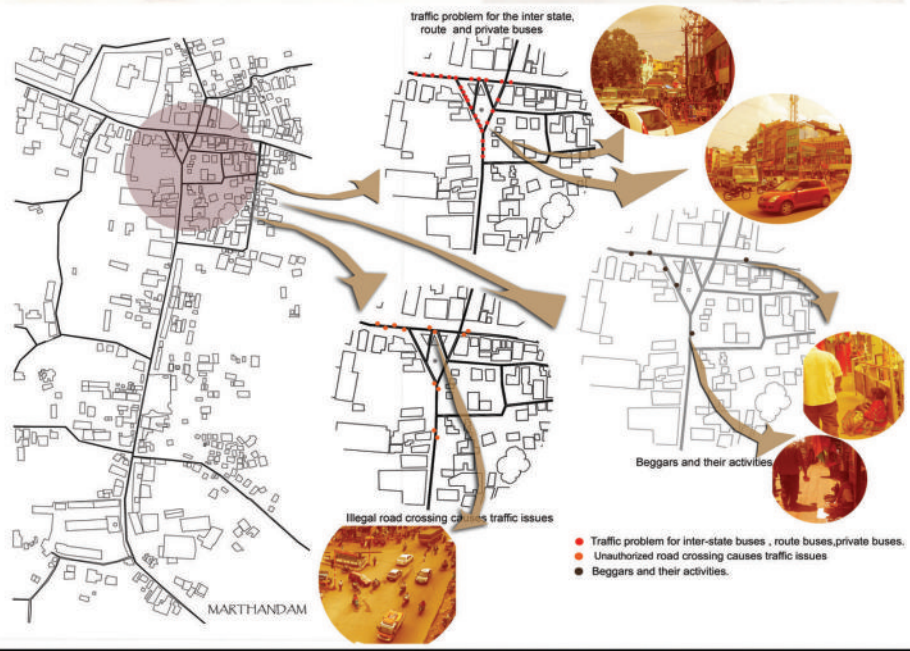
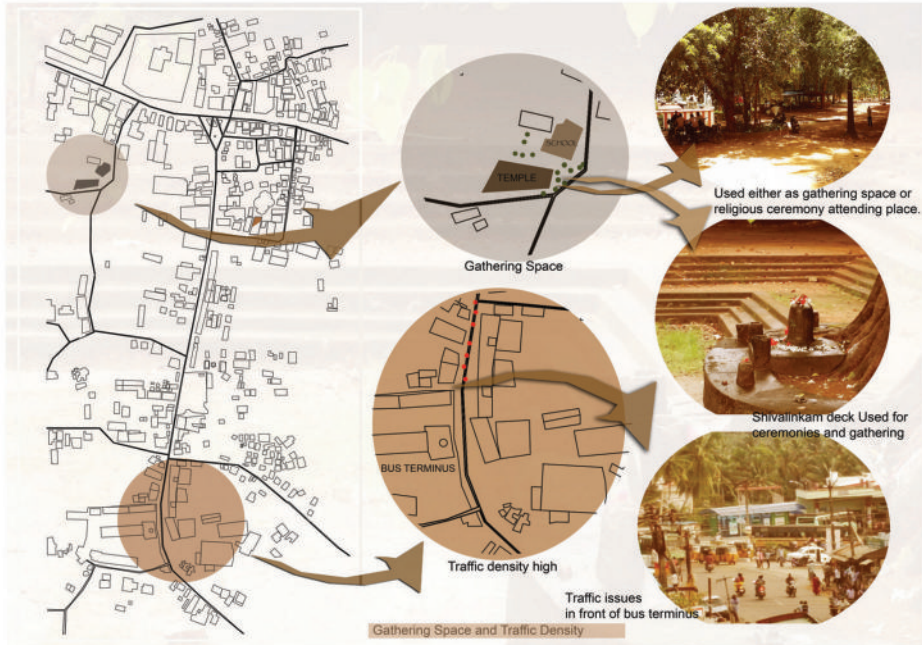


# KATTUPUTHOOR RURAL STUDY

# DESIGN 3RD YEARS



# KATTUPUTHOOR RURAL STUDY



STUDY OF VISTAS, STREET ELEVATIONS AND LANDSCAPE

AISHA NOUSHAD  
FAVITHRA S KALYANI

# FIGURE-GROUND MAP

1. This area is packed with commercial buildings only. As this area is near to the junction these buildings can attract more people. People can easily be accessed to these commercial buildings for their needs.
3. Due to the presence of Market and graveyard, residential land use are not supported.
2. This area is vacant due to the commercialization through the street sides. Due to these surrounded packing of buildings, the access and the future development is difficult.
4. This packed residential units are due to the influence of religious community. As this area can be termed as a comfortable residential zone. This area is located away from busy road and environment.
5. Because of the land is being surrounded by Bus stand and commercial buildings and by noise pollution the site is left vacant.

## CROWD PULLING AREAS



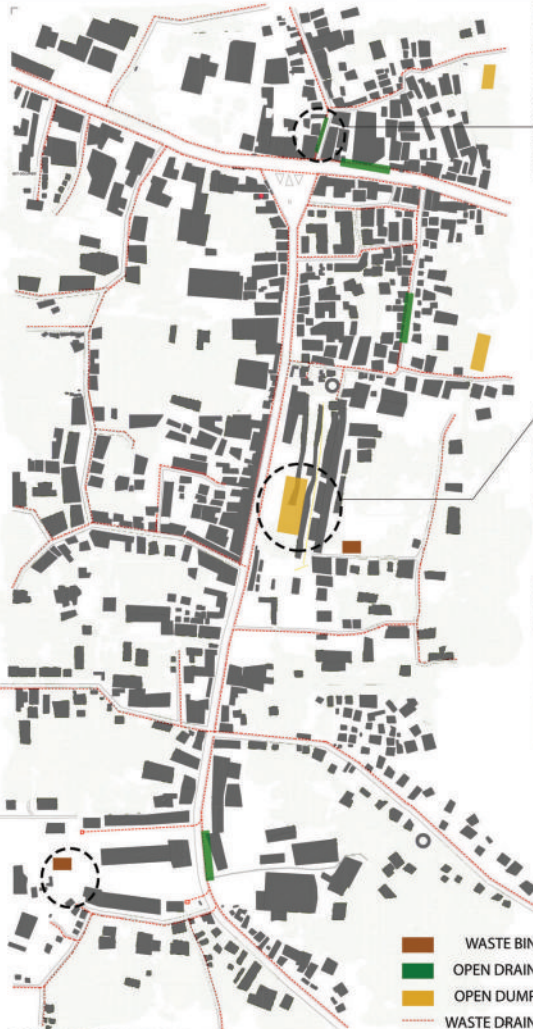
AJU SUKUMAR  
ASIF ALI NAS



# ACTIVITY MAPPING

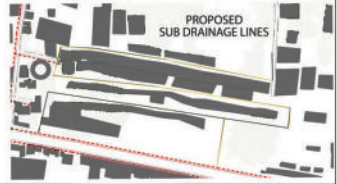
ANZY BEEGAM K  
FARZANA M NIZAR

**details of drainage and waste disposal**



**municipal waste dumping area**

- M MARKET DO NOT HAVE A WELL FUNCTIONING DRAINAGE SYSTEM
- B SHOPS ARE MAINTAINED AND CLEANED BY SHOP KEEPERS ONLY
- F EACH DAY WASTE FROM INDIVIDUAL SHOPS ARE DUMPED IN BACK-YARD
- H FISH MARKET IS NOT WELL MAINTAINED, LIQUID WASTE IS MAIN PROBLEM IN THIS AREA



- WASTE BIN
- OPEN DRAIN
- OPEN DUMP
- WASTE DRAIN

DRAINAGE LINES ARE NOT PROPERLY MAINTAINED

SOLID WASTE THROWN TO DRAINS, BLOCK THE FLOW OF DRAINAGE SYSTEM

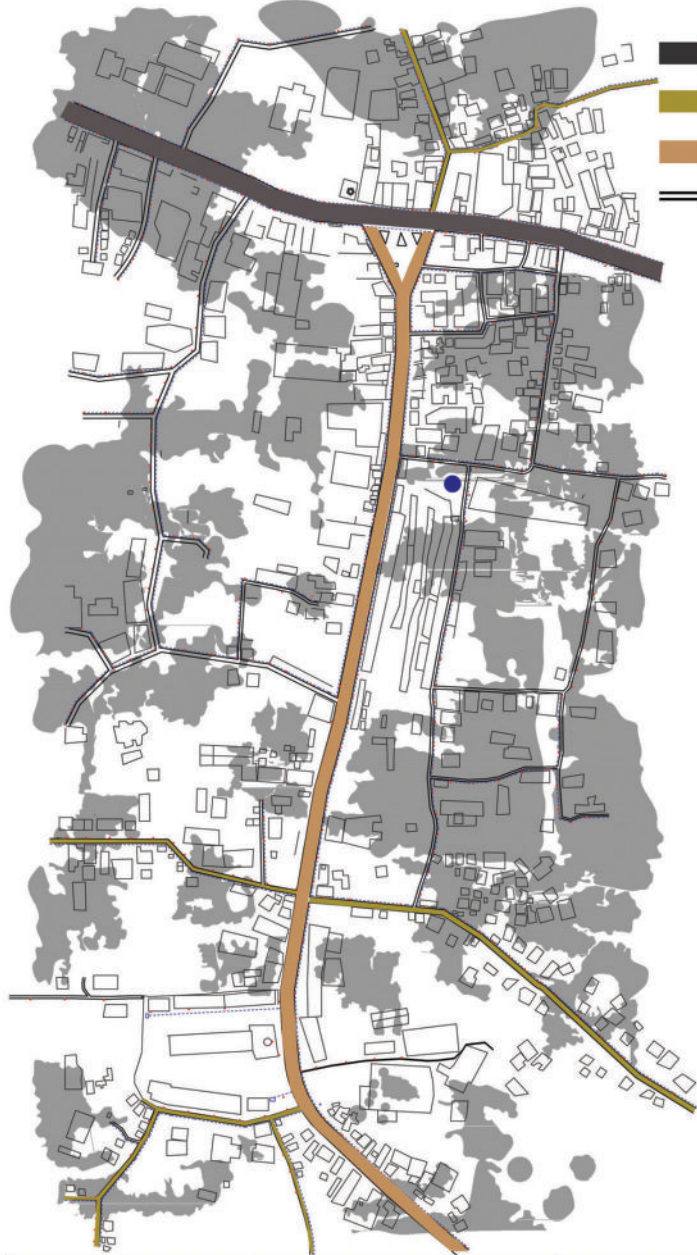
DEPTH OF DRAINS ARE LIMITED TO 2 FEET, AND THERE IS NO MAN HOLES IN THE SYSTEM

DRAINAGE SLABS ARE MADE OPEN AT MANY AREAS THAT CAUSE SMELL AND HYGIENE ISSUES

STILL WATER FOUND IN DIFFERENT PARTS OF CITY INITIATE GROWTH OF MOSQUITOES

EVERY RESIDENTIAL AND COMMERCIAL (if needed) HAVE PROPER SEPTIC TANK THAT CONNECTS THE MAIN SEWERLINE AND THE SOLID WASTE ARE DISPOSED IN PLACE NAMED ATTAKULAM

**mapping of physical infrastructure**



- NH 47 ROAD WIDTH 17M
- 3-3.5M ROAD WIDTH
- MARKET ROAD WIDTH 12M
- 2.5-3M ROAD WIDTH



# BEHIND THE SCENES

BIG DAY UNDER PROCESS



## AZERO 2K17 SYMPOSIUM

Symposium as the name says, a convivial meeting with regards to discussion of some topics. Here SICA is going to make its first steps towards a sensitive version of regional architecture which is both creative and appropriate in terms of NEO REGIONALISM

Architecture is the reflection of man's longing for order and involvement to his natural surroundings, has always been regional in its essence and character. In the past it has been mostly a communal art. It's NEO-REGIONALISM.

Architecture accomplishes an inversion of space to be considered its greatest marvel. The unique privilege of architecture among all the arts, be it concerned with dwellings or ships is not that of surrounding and, as it were, guaranteeing a convenient void, but of constructing an interior world..... It is true that architecture among the visual arts has to shares with literature this privilege of reflecting the basics dichotomy of the mind.

Azero is a consultation for exchange of information especially with a formal agenda "Think globally act locally". Azero is going to be a landmark about the topic neo-regionalism and an event being enthusiastic to evoke the ideologies of neo-regionalism. It's going to provide ideas that come up with new era of neo-regionalism movement to build within architectural cupola. Azero is going to become the canvas where designers can come up with unlimited design ideas. It is the high time for us to pause and look back - to realise and the relish our creativity as free spirits and in deep honesty in complexities of our modern world, yet never forgetting that man is the measure of all values.....

Anand U (President )

ATELIER '17



azero 2K17



# B.ARCH

## SDS NATA COACHING CENTRE

SDS NATA Coaching Centre, 14/31 Sigma Hospital Complex, Chankai, Kanjirakode, Near Marthandam, Kanyakumari District-629 155, India.  
Ph: 8012561000, 8012561001, 9750976622  
Website: www.sdsnata.com

### REGISTRATIONS STARTED

#### UNIQUE FEATURES OF OUR COACHING CENTRE

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- \* Classes are handled by experienced and practicing architects who are working as professors in leading Architecture Colleges.
- \* Seminars and Expert Talks by Practicing Architects with massive industrial experience.
- \* 100% Coverage of NATA Entrance Examination Syllabus.
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- \* Previous Question Papers and Important questions will be discussed and practiced.
- \* Individual attention given to each student.
- \* Mock Tests

- \* *Drawing Test*
- \* *Aesthetic Sensitivity Test*
- \* *Analytical Ability*
- \* *Aptitude*
- \* *Mathematics test*
- \* *Previous JEE (B.Arch) Question Papers*
- \* *Previous NATA Question Papers*

**NATA  
2017**

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### SIGMA COLLEGE OF ARCHITECTURE

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Affiliated by Anna University

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Phone No: 09443370072, 09443370058, 04651-209028, 209038



NATA 2017 is a 1 day Examination conducted all over India on 16-04-17



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