NORTH MALABAR
INSTITUTE OF TECHNOLOGY
Kannur University/KTU

a space to grow .....

TEXRON

THE ENGINEERING X'PERTZ REVOLUTION OF NMIT

THE CAMPUS NEWS LETTER

ISSUE 01
SEPTEMBER 2016

Editors' Note

We are extremely honored to get an opportunity to work on the first edition of our college newsletter "TEXRON". Texron mirrors our college N(never give up), M(make a difference), I(ignite yourself), T(transform).

True to its name, the newsletter could definitely have a good impact on the technological realm. We have tried our best to ensure that every page of this edition of Texron contains things which could motivate and ignite young minds.

Texron gives the glimpse of facilities, achievements, events and accomplishments of faculties and students of our college. It also brings out certain lesser known facts about technological world apart from some general articles of interest and flight of fantasy. We have tried to capture entire excitements and activities of our college so far. Nothing more, "action speaks louder and clearer than the words."

Message from the Director

I am happy that North Malabar Institute of Technology is bringing out a Newsletter named "TEXRON".

I feel that unlike the traditional college magazine, a newsletter will suit the unique nature of NMIT better. NMIT has been and will be different in positive ways, aiming to meet the expectations of all stakeholders – students, parents, staff, management and the community at large. The college Newsletter will definitely help to showcase the activities that are happening in the campus. It also helps in building up teamwork which is a much needed skill for engineers in this twenty-first century. Moreover, it provides a platform for publicizing the merits and achievements of the entire college fraternity. It also provides a record for posterity to evaluate the growth of the institution.

I am sure that the Newsletter will create an impact in the minds of readers, by way of providing larger visibility and dimension to the campus.

I hope that this culture of releasing a Newsletter continues without a break to achieve these objectives.

I wish the newsletter all success and hope that it will be a trendsetter that others will follow.

Jacob John

Message from the Principal

In today's world, technology plays an integral role in the daily life of people of all ages. It affects where we live, how we work, how we interact with each other, and what we aspire to accomplish. With the intention of helping students and the general public, by providing better understanding how technology and society interact, The NMIT, which always upholds Novel, Marvelous and Inspiring Traditions, has constituted an editorial board that trace through a digital magazine - newsletter, the histories of these technologies and how these technologies have become so vital to our lives.

……..with the anticipation that this venture might explain the marvels of modern industry and invention, the interesting stories of common things, the mysterious processes of nature and other related topics.

DR. SURESAN PARETH
PRINCIPAL AND PROFESSOR IN CSE

Message from the Vice-Principal

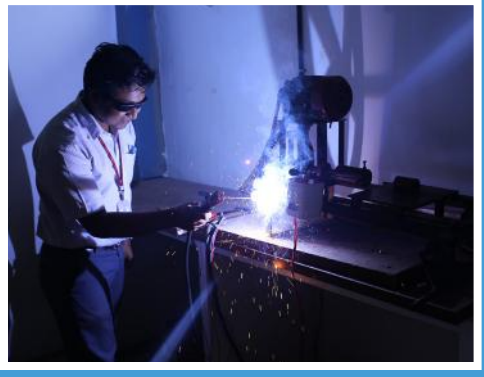
It's my pleasure to pen down these words for the very first issue of the campus newsletter "TEXRON". I am very thankful to the editorial team, the voice of the institute, for bringing out the idea on this edition of newsletter. The institute (NMIT), youngest in the university has been growing in leaps and bounds in quality in recent times. The academic performance of the first batch of passing out students has been impressive with an overall pass percentage of 76%. The management has taken tremendous effort to refurbish the facilities involved in various domains of Engineering. Some of the projects works carried out by the students have earned appreciations from various organizations. The placement cell of the institution has been enhanced by providing various placement training to the final year students. Internships and Industrial visits give the students a better exposure in their relevant field of specialization. Hope our students would soar to the greater heights ably guided by our faculty. I am confident that they will set a bench mark in the area of research and development by bringing forth new technologies thus creating a revolution in the technical world.

The articles presented are of varied interest, informative and interesting. Our students have proven their creativity, capacity, knowledge and technological skills in bringing up his magazine. I wish that the initiative created among students in order to release this issue grows, so that their creative ability shall be increased.

I once again congratulate and wish good luck to the editorial team in bringing up all the details of achievements in the form of newsletter "TEXRON". I wish the institution would scale newer heights during the forthcoming academic year.

Mr. Anu Jacob Paul, M-TECH, (PhD)

Our College Facilities




















ROBOTICS AND AEROMODELLING CLUB

In the year 2013 the departments of Mechanical Engineering and Electronics and Communication Engineering started Aeromodelling and Robotics Club with the aim of promoting innovative ideas of the students. The club aims at providing basic concepts of robots and aerial vehicles to the students. Another objective of the club is with mechanical, electronics and programming topics.

Mr. R K Menon *(Aeromodelling Expert & Career Counsellor)* gave a class on aeromodelling, to kindle the functions of the club. In his session Mr. R K Menon explained the concept behind planes, drones and other aerial vehicles and also demonstrated the models.

A 3-day workshop on RC planes was held at Govt. Engineering College, Kannur, where our presence was noted.

A robot racing competition was held on 16/02/2016 and First Prize was won by Sheetal P.M (ECE) and team, and consolation was won by Sooraj Balachandran (ME) and team. The club members had actively participated in All India Technical Fest held at Govt. Polytechnic College, Periya, Kasaragod on 31-12-2015 to 04-01-2016, also took part in the 3-day Technical Fest at Residential Womens Polytechnic College,Payyanur & areomodelling workshop conducted by CANSAT in Thrissur.

ENERGY CLUB

Our college alongwith academics have made students active in environment related activities.

In connection with Swach Bharath Abhiyan the Energy and Green club has been organized for the engineering students to prove their skills in protection of environment and its conservation.

Students planted trees on behalf of each department at NMIT campus. Besides these the students presented papers on several topics such as Waste Management, Plastic Separation and Rain Water Harvesting which helped others become more aware of these.

Miss Dhanya K(convenor of energy club), Dr.Suresan Pareth(principal) and Mr Jacob John(director) actively participates and encouraged every club activities.

C L U B S

HAM RADIO CLUB

Electronics and Communication Department of our college has started HAM Radio club with a strong desire to engage our students in communication field along with their academics in the year 2014.

"HAM Radio has worked in emergencies where nothing else gets through. It's been a critical part of emergency when cell phones are overloaded or the infrastructure is damaged. So when all fails……Amateur Radio works."

As beginners, we have started our club with 47 members. A motivation class on importance of HAM Radio, ASOC exam, procedure to apply exam and license by Mr.Santhosh Kumar was conducted on 19th July 2015 at NMIT campus. After being motivated by this session, 37 students from NMIT applied for ASOC exam and 8 students and one staff of NMIT qualified for ASOC restricted grade license.

A presentation session on ham radio, its benefits to societies, ASOC exam, license etc. was given by Sheetal P.M (S7 ECE) with the guidance of Sreeraj T.K (technical staff ECE) and thereafter club membership expanded to 103 with 56 new members for academic year 2015-2016. A special session on antennas and HAM Radio equipments and an excellent demonstration class was conducted in our campus by Malabar HAM groups on 21/2/2016. ASOC exam was conducted in NMIT and 27 students have qualified for restricted grade license. Currently, we have 38 ham radio restricted grade license holders in our college.

ITRON CLUB

ITRON

ITRON - IT Revolution Of NMIT is the technical club started by Computer Sci. & Engg department of NMIT in 2014. The club was started with the aim of creating a new technological revolution at the college by exploiting the creativity of our students.

WHERE INNOVATION BEGINS

Our team is composed of, ITRON DEVELOPERS who play code to build Apps & Softwares.

ITRON MEDIA TEAM who create awesome Graphics & Motion Medias.

www.itronclub.com
/itronclub
/itronclub

Our major activities include:

> Blog for Every NMITian
> NMIT on Wikipedia-(https://en.wikipedia.org/wiki/NMIT)
> Internet Radio - Radio I Malabar
> Tech Notice Board (Infront of NMIT Central Library)

Pranav Jayaraj, (S3 CS)

Had won Google's Android Developer Nanodegree scholarship worth Rs. 1.2 lakhs.

Google

Revathi Suresh, (S7 ECE)

First young lady in Kasaragod district to achieve HAM Radio general grade license.

A DAY

The sun rises to my eyes; the birds are peeping to my window, I can hear some water droplets…. It seems rained overnight. "Oh shit, its morning again" Thanking God for a new day I get off the bed. After all daily courses it's time to college. Can hear a horn far ahead, "hey am late, bus have already arrived". Got onto it, one by one all friends get gathered. Over the hills here are we to beloved NMIT. Getting off the bus, we see smiling face greeting Good morning. Off to the locker area, NMIT-cell phone free campus, so should back off all stuffs in the locker. "Oh my God, What's it…? Bell rang". Time to class, rushing our steps before teacher enters the class. Periods began; one by one period passes by, small breaks in between. These breaks are not meant for a break, instead rushing to staff for our CE marks. Uff, engineering life with the externals, internals, lectures, arts day, games and a loved techfest named "TECHNOSTORM", along with a campus newsletter "TEXRON".

NMIT life always gives you an opportunity to go ahead. Engineering in life gives you a best chance every second. TEXRON is the place where you can show your ability. Some of the people hide their skills, feelings due to their lack of confidence. An engineer is a professional who has to come over everything.

Campus with good atmosphere, good faculty, helping colleagues and a sourceful society makes a perfect match.

Sorry, 'Am I boring you by my lectures….. But it's a fact. So be an engineer to be a better human.

"Oh what's it I can hear, bell is ringing". Class is over. Rushing towards my bus, or else need to go by standing.

Let me say you one thing, it's a top secret of mine……

Be courageous and kind, life is yours….. Bye…

Thabsheera

S5 CE

GRAPHENE VALLEY

Smartphone's like LG G FLEX can heal themselves from minor scrapes and scratches, but Graphene should take durability to next level. The material is purportedly 100 times stronger than steel. According to American Chemical Society (ACS) Graphene achieves this strength because its carbon atoms are arranged in two-dimensional sheets.

FLEXIBLE LIKE RUBBER

Graphene could stretch by 20%. In other words, it's pliable just like rubber. It is also resistant to water, so that the material could potentially usher in a new generation of waterproof device whose chassis may not need to be sealed like today's devices.

According to ACS, Graphene is thin enough to stretch over 28 football fields. The material holds a ton of tech potential, as we could someday see paper thin smartphones and tablets that you can fold up when not in use. Incredible battery life for Graphene. It likely influence not just how our device looks, but how long they last. If Graphene goes mainstream, you could possibly leave your Smartphone charger home when travelling.

Graphene works with our body. It has potential to interact with our biological systems. This could take today's fitness tracking tech to all new heights, as graphene sensors could possibly scan your nervous system.Aside from its physical benefits, it's also one of the cheapest materials around. With Samsung, Nokia, Sandisk and IBM investigating uses for graphene along with universities, we could soon see a host of exciting new devices that are stronger, lighter and cheaper for manufacturers and consumer alike.

Anoop K, S5 EEE

WALABOT DIY

An Isrel-based 3D sensor imaging company has developed a device that can tell you what is inside the wall of your house. A new device and app, Walabot DIY, lets you find the wires, stud, pipes, plastic, rodents and anything else that is buried inside a wall.

Popularmechanics.com reported "it can help the blind avoid obstacles", Vayyer CEO and co-founder Raviv Melamed was quoted as saying.

It can sense you or alert you. eg:whether your mother or father has fallen in the shower, help your robot become autonomous and much more..

The $200 Walabot currently works with android phones only. It is a phone sized block that attaches magnetically to its host-smartphones, pulls power from the phone's Micro USB port and functions with the help of an accompanying app.

Adarsh Chandran, S5 CS

1998: Yahoo refuses to buy Google for US $ 1 million

2002: Yahoo realizes its mistake and offers to buy Google for US $ 3 billion. Google wants US $ 5 billion. Yahoo refuses.

2008: Microsoft offers to buy Yahoo for US $ 40 billion. Yahoo says no.

2016: Yahoo sold to Verizon for US $ 4.6 billion.

In Life, timing is everything.

How to make money from Internet?

Many of our friends are still busy forwarding free talktime and such spam WhatsApp messages thinking that sometime they may get it. But still they are not ready to admit these are part of just online marketing even after getting fooled many time. So this article is dedicated for those guys.

Here is the list of most reliable technics to earn pocket money online:

BLOGGING - Share your words to the World.

Start writing articles/posts on your passion by creating a blog on *Blogger.com* or on *WordPress.com*

Use Google Adsense, YahooBing Ads, Affiliate marketing for earning from Blogs.

YOUTUBE – Create videos for publishing on youtube. You can make video tutorials on your subjects, experiments, projects and your passionate things. Upload to youtube, get good views and start earning through youtube Ads.

ONLINE MARKETING – Do you have good number of followers on social medias or do you own facebook pages with more than 1k likes. Then start digital marketing by promoting paid posts to your followers and start earning by marketing.

FREELANCING – Find online freelance jobs from reliable websites like Freelancer.com then start working and earn.

SREERAJ M, S7 CS

Editor - www.vastinfos.com



TECHSOLACE'15-16

Our College Day







TECHFEST 2015-16

IS IT POSSIBLE TO RELOCATE A BUILDING...!!

Yes, It is. It is a tedious process to relocate or move a building from its existing place to another. A structure can be relocated either by disassembling the building & reassembling the same at the required destination or by transporting it whole to the destination. For the latter the building is first raised and then may be pushed on temporary rails or dollies if the distance is short otherwise wheels such as flatbed trucks are used. These moves can be complicated and require the removal of protruding parts of the building, such as chimney as well as obstacles along the journey, such as overhead cables and trees.

Why could it be moved....? There are several reasons that a building could be moved. For example a redevelopment, such as an urban regeneration could cause a building relocation. Additionally, it has been purchased and the buyer wishes to move it for reasons such as the scenery from the building. The owner might also sell the land the building is on, but keep the building.

Another reason for the relocation of a building is to preserve it for historic interest. An example of such preservation is Li An Tai, historical house in Taiwan. Such a move could be made because a building is in danger at its present location.

How could we move it....? Elevating a whole structure is typically done by attaching a temporary steel framework under the structure to support the structure. A network of hydraulic jack is placed under the framework and controlled by a unified jacking system, elevates the structure of the foundation. An older, low technology method is to use building jacks called screw jacks or jackscrew which are manually turned.

With both types of jacking systems described here wood beams called cribs, cribbing or box cribs are stacked into piles to support both the structure and the jacks as the structure is lifted in increments. Once the structure is at a sufficient height, a flat bedtruck or hydraulic dollies are placed under the steel framework to support moves to the final destination. After the move, the structure is lowered reversing the steps just applied.

NOTABLE MOVES

• London's famous monument The Marble Arch (1847) was originally the entrance to the newly rebuilt Buckingham Palace. Following the expansion of Buckingham Palace, it was moved to a location near Hydepark, with work being completed in 1851.

• In order to save a single tree, Mustafa Kermal Ataturk, the first president of Republic of Turkey, moved his summer house, the Yalova Ataturk Mansion, four meters to the east in 1936.

• As a part of the Minnesota Shubert performing Arts and Education Centre development the Shubert theatre was moved between 9th February 1999 and 21 February 1999. The 2638 tone building was moved three city blocks and is the heaviest recorded building move done on wheels.

Jishitha, S3 CE

Our

Transportation

Campus

Library

LOCKER Facility

PLACEMENT CELL

Abhilash Rayaroth

Placement Officer,

NMIT

Apart from the usual placement activities, we leverage our vast contacts in industry to find suitable placements and opportunities for our students. An active placement cell with faculty advisors and student coordinators work tirelessly towards their goal.

Perceiving the present needs of employers, the placement cell takes special care in making the students fit into the present scenario. The various training sessions prepare the students to face the world outside campus without stress. The students are given special sessions to succeed in Aptitude Tests, Group Discussions, Technical Interviews and H.R. Interviews.

These efforts have made it possible for NMIT to find placements for a large number of students from the first batch itself (2012-2016 batch), which is a rare achievement.

Institute started a new centre CIC&ED- Center for Industrial collaboration and Entrepreneurship Development, to motivate the students in all industry related activities.

Innovation and Entrepreneurship Development Cell (IEDC)

KERALA STARTUP MISSION
[Formerly Technopark TBI]

IEDC NMIT

PLACED STUDENTS

eVive health
Cognizant Technology Solutions
UST Global
CSS CORP Wired to SUPPORT
Infosys
ALLSEC TECHNOLOGIES BUILDING LASTING RELATIONSHIPS
MECTON TECHNOLOGIES

CONCENTRIX A Business Services Company
ipsr solutions ltd
SLK SOFTWARE
TATA CONSULTANCY SERVICES
AEGIS Experience. We make it easy.

COLLEGE CREDITS

NMIT Director Jacob John receiving the award for best Upcoming Engineering College in Kerala" from Union Cabinet Minister Sri. Kalraj Mishra at New Delhi.

ALL INDIA TECHNICAL AND MANAGEMENT COUNCIL

Honors

North Malabar Institute of Technology, Kerela

for

Best Upcoming Engineering College in Kerela

On 3rd Annual Industry Academia Meet & Award Function held at

FICCI Auditorium, New Delhi on 16th December, 2014

Chief Guest

Sh. Kalraj Mishra Ji, Honorable Minister - MSME, GOI

Guest of Honor

Sh. Upendra Kushwaha Ji, Honorable MOS-HRD, GOI

&

Sh. Krishan Pal Gurjar Ji, Honorable MOS-Social Justice & Empowerment, GOI

Sunita Duggal (Ex-IRS) Administrator

Deep Chaudhary President

Receiving Partnership award from Regional Manager TATA CONSULTANCY SERVICES (TCS-iON Kerala)

ICTAK TECHATHLON 2015-16

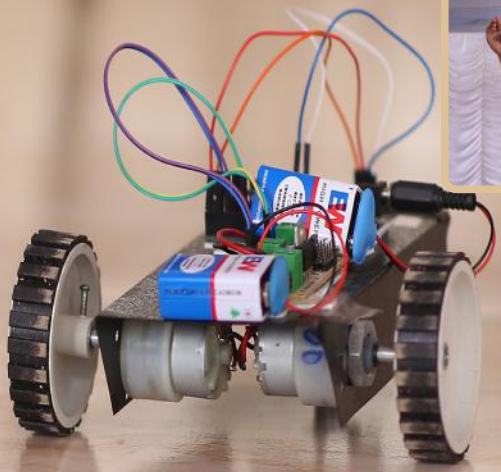
Students of NMIT have been encouraged to participate in competitive programs conducted by various companies and have got several achievements in various fields. One of the great achievement is our students winning first place in regional level ICTAK TECHATHLON 2015-16 held at MDIT COLLEGE and have been qualified for the state level competition.Our college has been awarded third place in the state level competition held at Techno park Trivandrum on January 28th 2016.

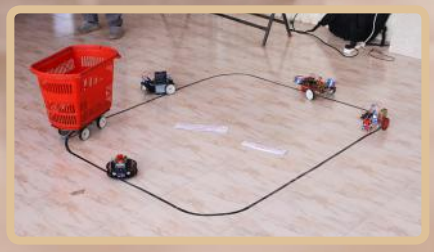
Mr. Manu Thomas(HOD of ECE department) took the initiative and selected 5 members from the college- Abhinav Mahindar (S7 ME), Jishnu(S7 CS), Bhavana(S5 EC), Sushma(S5 CS) and Rawabi(S5 EEE). The creativity, skills and ideas of students are brought forward through these program.

There were 5 events in the programme.The first event of the day was debugging.Our students from CS department(Sushma,Jishnu) performed excellently well. The second event of the day was quiz.

Unfortunately, our students(Abhinav, Rawabi) was not able to perform well in that session. Our next event was treasure hunt, which includes fun and intelligent tests. Our students (Bhavana, Jishnu) did well The last event but our best event was prototype designing and presentation.it was the session where our students had given their best performance. Our students had designed a "Multidimensional Harnesser" which was entirely different from that of other colleges and that's what made the judges to attract our team. Abhinav, the team captain was given special appreciation by the board members for giving an excellent presentation.

TEXPO 2016, PAYYANUR





TECHNICAL FEST PARTICIPATIONS

Technotsav 2015-16, Periya

BEING AN EAGLE.....!!!

"ALL BIRDS FIND SHELTER DURING A RAIN, BUT EAGLES AVOID RAIN BY FLYING ABOVE THE CLOUDS." - APJ ABDUL KALAM

We humans are considered to be the most civilized and intelligent among all living creatures. He leads a superior life in comfort.

Has it created a negative impact on his attitude?

Every person possesess a beautiful zone around him called comfort zone characterized by low anxiety and stress levels. If he tries to remain with it and perform things what he has always done then the reward will be the outcome they always get. A comfort zone may be a beautiful place, but nothing grows in it.

Those who dare to break their comfort zone and step out to do something new shall get rewards which they had never experienced before. Remember, you can only cross an ocean if you get the courage to lose the sight of the shore. A person grows by taking risk and experimenting something new and expands his comfort zone by increasing the number of things he is familiar with.

In the above mentioned quote, the eagle always try to fly higher and higher and thus enlarging its comfort zone to even above clouds.

Methods to grow yourself

- Put yourself in new environment.
- Say 'YES' more often.
- Consider failure as a teacher.
- Do what you are afraid of.
- Do not pick up safe path always.
- Stop telling excuses always.
- Research something new.
- Create challenges and overcome it.

Find out your comfort zone, leave it.....
Experiment something new and.....GROW.....!!!

May be you are mortal, but make your life immortal through your works as APJ Abdul Kalam did.

JIJITH PK
Assistant professor, ME

DEEP WEB & DARK WEB

This article is about the part of the World Wide Web not indexed by traditional search engines.

The deep web (or invisible web or hidden web) are parts of the World Wide Web whose contents are not indexed by standard search engines for any reason .

We know our world is addicted to internet but we don't still know what is internet and what we are allowed to know. The internet according to us are Facebook , You Tube, twitter, and some web sites only.

But you should know that we only see the 4% of the entire internet. Where the hell other 96% gone !.

We can call the other 96% as ' DEEP WEB'.

We can't get access to this DEEPWEB through a normal browser.

We need special browsers like Tor, I2P, or other darknet software. For example,

Tor allows users to access websites using the onion server address anonymously, hiding their IP address

DARK WEB

This is the dark side of our internet. Dark web constitute Hacking, Arm deals, Pornography, Drug deals , Bit coin services etc... Even you can buy a professional killer through this darkweb.

The police can't track them because of hiding their IP address.

Dark market is a market which mediate transactions for illegal drugs and other goods. In dark web many hackers sell their

services there individually or as a part of groups. Such groups include Trojanforge, Mazafaka, darkode etc…

Terrorism –There are at least some real websites claiming to be used by ISIL.

Tor is free software for enabling anonymous communication. The name is derived from an acronym for the original software

project name "The Onion Router".

Adarsh K A, S5 CS

SPORTS

NMIT CRICKET TEAM

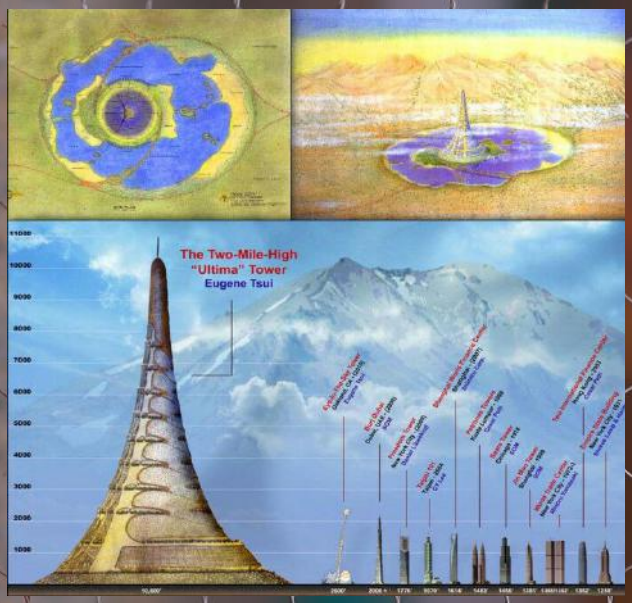
NMIT FOOTBALL TEAM

Onam 2014-15

Earlier Events

The ULTIMA TOWER

Why to build a two mile high one mile wide building…..?To prevent the uncontrolled blight of natural landscape by rapacious developers and industry. At current rates the surface of the planet will be nearly totally covered with residential, commercial and apartment dwellings within the coming century. Large structures such as these bring nature upward to preserve the natural surroundings and to add natural surroundings in a controlled environment. This two mile high, trumpet bell-shaped tension structure is the most stable and aerodynamic shape ever conceived for a tall structure.



DESIGNED BY: American architect ***Eugene Tsui.***

Estimated cost: 150 billion $

Exterior area: 150,000,000 sq.feet

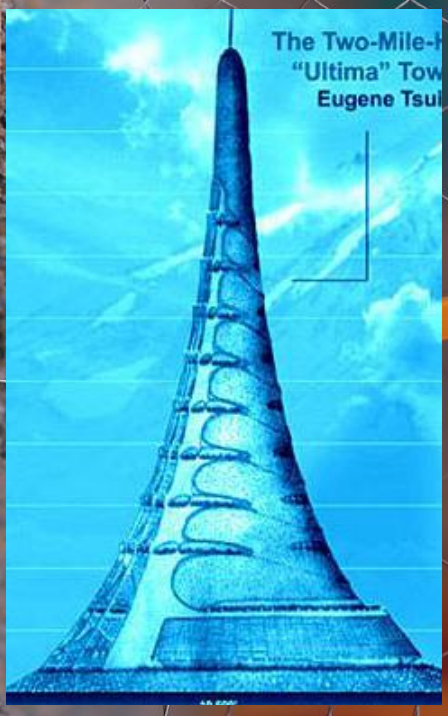
Total enclosed area: 39000 acres

Floors: 500

Height: 10560 feet

Diameter at the base: 6000 feet

Its upper level wall thicknesses are the same as the lower level wall thicknesses unlike other structural systems that are extremely tall. There are 120 levels to the structure with great height at each level. The scale of this structure is such that the entire central district of Beijing could fit into its base. One must not think in terms of floors but, instead, imagine entire landscaped neighborhood districts with "skies" that are 30 to 50 meters high. Lakes, streams, rivers, hills and ravines comprise the soil landscape on which residential, office, commercial, retail and entertainment buildings can built. In essence, Ultima Tower/Sky City is more an ecosystems design than an architectural habitation design. The structure provides a basis for architectural development upon which architectural diversity can flourish. Sunlight is brought into the centre of the structure by means of a hollow, mirrored core that reflects sunlight and disperses it within the structure. This allow for both interior and exterior sunlight to exist in plenty full amounts. The tower sits in a natural setting in a large lake. The lake water is drawn up throughout the structure and used for cooling floors and walls.



CONSTRUCTION MATERIALS: High-strength steel, high-strength concrete, stainless concrete, anodized aluminium, acrylic, patina copper, stainless steel cable, self-shading glass, composite ceramics, tempered glass.

Ablaze Reji
S5, CE

OUR FACULTIES

Teaching Staff

Non-Teaching Staff

Administrative Dept.

Cleaning & Security

Transportation

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AP in Humanities

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DESIGNER

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S7 CS

EDITORS

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S5 EC

Johnson Antony
S7 ME

Sushma.S
S5 CS

Shafa Zafarin
S7 CE

Rawabi
S5 EEE

TEXRON
2016

http://bit.ly/texron2016

ITRON
MEDIA TEAM

AN ITRON MEDIA CREATION