Meenakshi Sundararajan Engineering College

Chennai – 24

Department of Civil Engineering

SYMPOSIUM 2K21

DATE:20/4/2021

BATCH: 2018-2022

MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE
Arcot Road, Kodambakkam, Chennai 600 024
(Approved by AICTE and Accredited by NBA)
DEPARTMENT OF CIVIL ENGINEERING

VISION AND MISSION OF THE DEPARTMENT

VISION

To develop technical man power by facing challenges in emerging technologies through excellence in education, research and scientific training with socio-economic involvement.

MISSION

1. Transcending, disseminating and integrating knowledge of engineering, science and technology.
2. Developing and innovating in applications through interdisciplinary research and development projects in collaboration with stakeholders.
3. Acting as problem solvers by acquiring relevant skills required for a wide range of career challenges.
4. Creating opportunities in a collaborative and sustainable environment and encouraging students and staff to achieve the best.

MEENAKSHISUNDARARAJANENGINEERINGCOLLEGE
(Managed by I.I.E.T Society)
363, Arcot Road, Kodambakkam, Chennai – 24

Dr.L.Ramajeyam, M.E.,Ph.D 9841097110

DEAN/CIVIL **Fax:** 24811103

14/04/2021

To

Mr. Sankar Ramakrishnan,

Senior Associate Director,

Project Management,

CBRE South Asia Pvt. Ltd.

Sub: Invitation to preside as chief guest – Department of Civil Engineering symposium – **WAFES 2K21**

Dear Sir,

It gives me a pleasure to invite you as a Chief Guest to address our Civil Engineering students in the **WAFES 2K21** symposium. Your thoughts would enable our students to gain knowledge from your expertise and experience.

The date for the event will be on 20th April 2021 & the session will begin at 10:00 AM.

Kindly communicate your acceptance at earliest. This will enable us to prepare for a successful event.

Anticipating a favorable reply from your end.

Thanking you

Dr.L.Ramajeyam DEAN/CIVIL

MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE
Kodambakkam , Chennai

DEPARTMENT OF CIVIL ENGINEERING 2018-2022

FINAL YEAR CIVIL

S.No	Register number	Name of the Student
1	311518103001	AKASH R
2	311518103002	ANAS AHMED R
3	311518103003	ARUN KUMAR K
4	311518103004	BALAJI K
5	311518103005	BHARATHI J
6	311518103006	BHUVANA MULLAI P
7	311518103007	DHEENA DHAYALAN M
8	311518103008	DIVYA B
9	311518103009	EISHA YOKINYA B
10	311518103010	GOKUL A
11	311518103011	JEYAKRISHNA RAJASEKAR
12	311518103012	KARTHIK K
13	311518103013	LEVETHA L
14	311518103014	MOHAMED ABDULLAH M.K
15	311518103016	MORISHNATH B
16	311518103017	MUKUND S.V
17	311518103018	NAGAMANICKAM P
18	311518103019	NIRMAL KUMAR K
19	311518103020	NISHI ROY K

20	311518103021	NITHISH J
21	311518103022	NITHYASHREE M
22	311518103023	NITHISH KUMARAN A.G
23	311518103024	PAVEEN KUMAR V
24	311518103025	PRAVEEN KUMAR C
25	311518103026	PRIYADHARSHINI K
26	311518103027	RADHAKRISHNAN J
27	311518103028	RATHEESH KUMAR A
28	311518103029	ROKESH S
29	311518103030	SATHVIKA R
30	311518103031	SELVAPANDIYAN P
31	311518103032	SHALINI A.S
32	311518103033	STEVE ROOSEVELT SURESHRAJ
33	311518103034	SUBASH KANNAN M
34	311518103035	THARUN S
35	311518103036	THENDRAL S
36	311518103037	TRINISHA PRAGASHINI FERNANDO
37	311518103038	VARSHAA R
38	311518103039	VIGNESH T
39	311518103040	VISHNU N
40	311518103041	VISHVA MOHAN V
41	311518103301	PREMKUMAR
42	311518103302	RAMESH.K
43	311518103303	SANDHIYA
44	311518103701	JANARTH

MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE

DEPARTMENT OF CIVIL ENGINEERING

THEME: VIRTUAL CARTOGRAPHY

WAFES is a national level technical symposium organized by the final year students of civil department. It is the most awaited event where both technical and non-technical events are conducted. The word WAFES is an acronym of all the five natural elements i.e., Water, Air, Fire, Earth and Space. WAFES would be a bash of fun and frolic, skill development. The infotainment event will definitely decipher the intelligence and complement them.

The basic tenets of the preparation measures involve intense investigation of the disaster phenomena, collection of past and current data and modelling possible solutions based on stochastic assumptions to attain a probable solution.

It is therefore duty of civil engineers to take it upon themselves to pursue the knowledge and equip themselves with the advanced methods. If there is a disaster, we will be ready to fight and give a better solution

TECHNICAL EVENTS

EVENTS	ROOM	TIMINGS	STUDENT INCHARGE	STAFF INCHARGE
PAPER PRESENTATION Present any ideas in the field of civil engineering. A platform to let your presentation skills shine, come and show us your presentation skills.	https://zoom.us/j/93166348026 ?pwd=UDkrZ3ZsS21QSjdG aUs5TmVrSFhyQT09	8 AM – 10 AM	1.Steve Roosevelt 2.Nithish	1. Mrs. Anbu Neema
A DAY WITH TALENTINE We will keep you guessing throughout the course of the event and make you realize the character required by a civil engineering.	https://zoom.us/j/4793022409 ?pwd=bVBvbUc3UTV 3R3NV aHZoeUxwOXRPdz09	8 AM – 10 AM	1.Dheena Dhayalan 2.Rokesh	1. Mr. Bharath Raj
THINK AND LINK Manifest your mastery in the field of civil engineering by connecting the technical words.	https://zoom.us/j/8926830172 ?pwd=bHZUTHUwV1JTbW9p SVQ2 a1Z6Wi9SUT09	10 AM – 12 PM	1.Mukund 2.Akash	1. Mr. Ravi Kumar 2. Mrs. Malini Gayathri
POSTER MAKING An excellent platform to bring out your poster making skills and expose your talent in design.	https://zoom.us/j/93166348026 ?pwd=UDkrZ3ZsS21QSjdG aUs5TmVrSFhyQT09	10 AM – 12 PM	1.Tharun 2.Vishwa Mohan	1. Mrs. Nithya

NON-TECHNICAL EVENTS

EVENTS	ROOM	TIMINGS	STUDENT INCHARGE	STAFF INCHARGE
TALENT SHOW-OFF Singing, juggling, dancing, good at musical instruments and so on, the talents can be show cased in this event.	https://zoom.us/j/93166348026?pwd=UDkrZ3ZsS21QSjdGaUs5TmVrSFhyQT09	1 PM – 2 PM	1.Tharun 2.Nithish	1. Mr. Saravanan
BEHIND THE SCREEN There is hope for the future because God has a sense of humour and we are funny to God.	https://zoom.us/j/4793022409?pwd=bVBvbUc3UTV3R3NVaHZoeUxwOXRPdz09	2 PM – 2.30 PM	1.Vishwa Mohan 2.Selva Pandiyan	1. Mrs. Nithya
PHOTOPEDIA Taking an image, freezing a moment, reveals how rich reality truly is by capturing the beautiful picture.	https://zoom.us/j/4793022409?pwd=bVBvbUc3UTV3R3NVaHZoeUxwOXRPdz09	2.30 PM – 3 PM	1.Nirmal Kumar 2.Mohammad Abdullah	1. Mrs. Nirmalambal
CONNEXION First round is about finding the picture right and the second round is about finding the song with lyrics.	https://zoom.us/j/93166348026?pwd=UDkrZ3ZsS21QSjdGaUs5TmVrSFhyQT09	3 PM – 3.30 PM	1.Tharun 2.Nithish	1. Mr. Malini Gayathri

IPL QUIZ It is a 2 vs 2 cricket game where each team will compete in a number of rounds and the final will be played	https://zoom.us/j/4793022409 ?pwd=bVBvbUc3UTV 3R3NVaHZoeUxwOXRPdz09	3.30 PM – 4.30 PM	1.Mukund 2.Vignesh	1. Mr. Bharath Raj
CHALK CARVING Source of joy to the artist brings to the participant to show case his skills in the civil engineering stream.	https://zoom.us/j/4793022409 ?pwd=bVBvbUc3UTV 3R3NVaHZoeUxwOXRPdz09	4.30 PM – 5 PM	1.Steve Roosevelt 2.Selva Pandiyan	1. Mr. Ravikumar

STELLA MARIS COLLEGE

EARTHQUAKE & EARTHQUAKE RESISTANT BUILDINGS

Presented by:
YASHITHA.V

STELLA MARIS COLLEGE

EARTHQUAKE & EARTHQUAKE RESISTANT BUILDINGS

Presented by:
YASHITHA.V

1

Earthquake:

- An earthquake is the perceptible shaking of the surface of the earth, resulting from the sudden release of energy in the earth's crust that creates **seismic waves**.
- Earthquakes are also known as a quake, tremor or temblor.

2

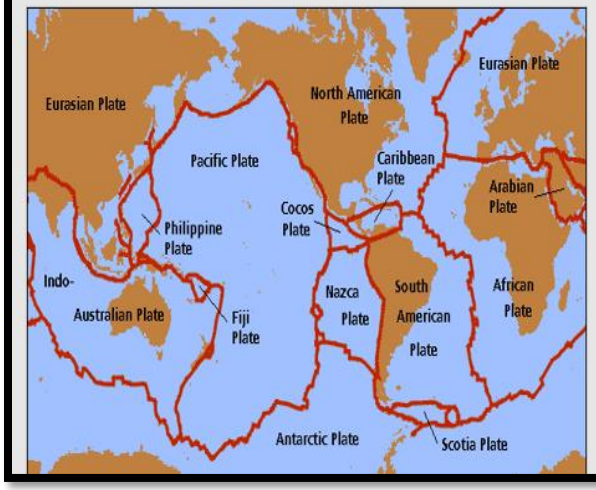
CAUSES OF EARTHQUAKE

➢ Due to Earth's rotation and other energy factors different shells or the rock layers constantly move or slid past each other.

➢ Volcanic eruptions, rock fall, landslides , and explosions can also cause a quake.

➢Different continental **tectonic plates** of lesser densities float and move overriding the denser rock layers.

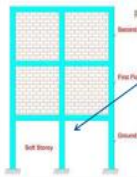
3



Earthquakes do not kill people

Improperly designed structures do!

Earthquake resistance- minor buildings



➢**Avoid soft storey walls in ground storey**

➢ **Size of building**

" Simpler the plan, Better the performance."

➢**Construction materials**

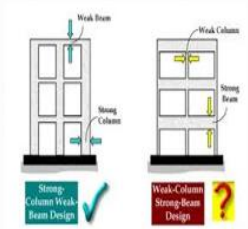
"RCC is preferred than PCC"

DESIGN OF COLUMNS AND BEAMS

It is advised to have,

Strong- Columns Weak-beams

Because it can withstand horizontal forces.



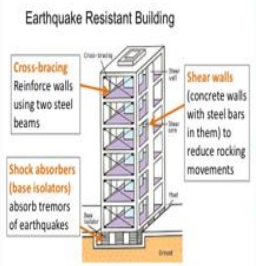
7

"Horizontal lintel band necessary throughout the masonry."

LATUR INCIDENT

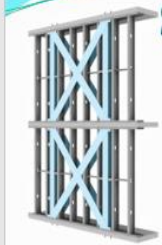
8

EARTHQUAKE RESTANT BULIDING TECHNIQUES



- Shear walls
- Base isolation method
- Seismic dampers
- Levitating of houses

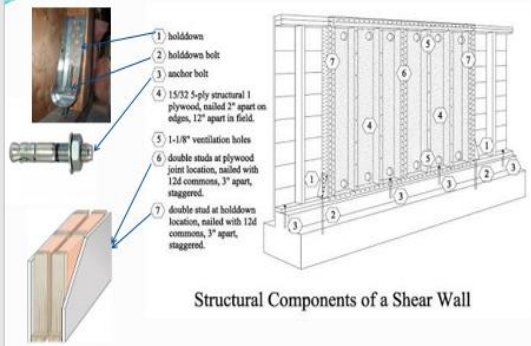
9



Shear walls

- Shear walls are the main vertical structural elements with a dual role of resisting both the gravity and lateral load.
- Thickness generally varies from 150mm to 400mm in high rise buildings.

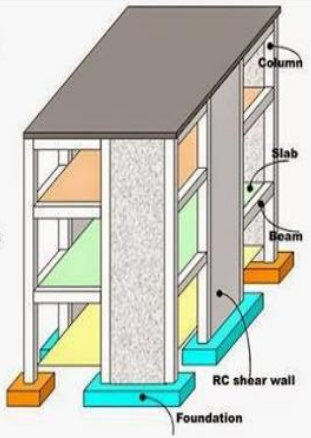
10



Structural Components of a Shear Wall

11

RC shear walls carry earthquake loads down to the foundation. They provide large strength and stiffness to buildings in the direction of their orientation.



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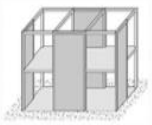
Positioning of shear walls



- Should be symmetrical in plan along both axes.
- The opening provided in shear walls should be symmetrical.
- Effective when located along the exterior perimeter of building.

13

Advantages of shear wall

- Efficient in terms of ,
  1. Cost
  2. Effectiveness
  3. Construction
- Helps in minimizing the effect on non-structural elements. E.g. Glass, Windows

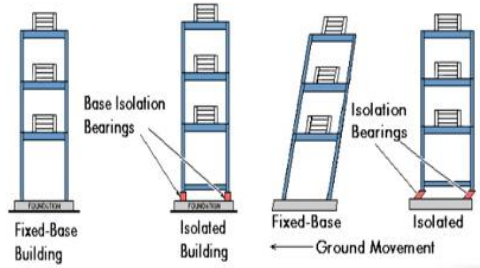
14

BASE ISOLATION METHOD

- ✓ Induces flexibility to the structures.
- ✓ Building is rested on flexible pads.
- ✓ During earthquakes the building doesn't move.
- ✓ It is suitable only for hard soil.

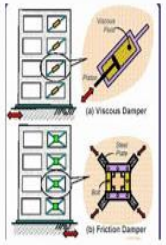
15

Isolation



16

SEISMIC DAMPERS



- These are uses in place of structural elements like diagonal braces.
- When seismic energy is transmitted through them, dampers absorb part of it, and thus damp the motion of the building.
- There are different types of dampers,
  1. Viscous damper
  2. Friction damper
  3. Yielding dampers
  4. Viscoelastic dampers

17

TAIPEI 101 WITH DAMPER

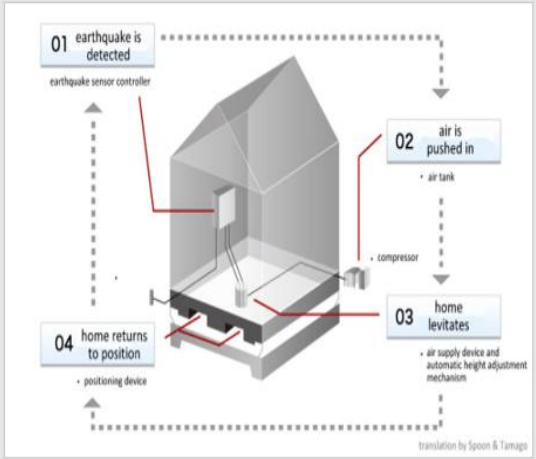
Damper of weight 660 ton is suspended on the 92nd flood to 87th floor

18

LEVITATING OF HOUSES- JAPANESE TECHNOLOGY

- *This idea was developed by the Japanese company Air Danshin.*
- *It is found to be survived even in extreme earthquakes.*

19 ★



20 ★

Conclusion:

Earthquakes are inevitable....

but each earthquake need not turn into a

"DISASTER"

It is in our hands to prevent disaster!

Let us work together to build a culture of prevention!

21 ★

22 ★

PLAXIS 2D DISPLACEMENT ANALYSIS OF GEOTEXTILE TUBE TECHNOLOGY TO PREVENT COASTAL EROSION AT SANGUDURAI BEACH OF KANNIYAKUMARI DISTRICT

Presented by

Mr.B.Nithish Nelson
UG Student
Department Of Civil Engineering
Stella Mary's College Of Engineering
Kanniyakumari.

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1

INTRODUCTION

- As we all know that **ocean** plays a major role in human life especially to the people who are living at the **coastal region**. It acts as a major **source** of **food** and gives income to **support** their **family** and life.
- Here due to Some climatic changes coastal **erosion** occurs. In erosion, **tides** plays a vital role. These tides rise and fall through out the day and year.
- This erosion causing the **concrete** structure **damage** that are constructed near the **seashore**.
- Here we have proposed geotextile tubes which can be a better solution to prevent this coastal erosion.

2

- For that we have analyzed a place called **sangudurai** beach which is located in Kanniyakumari district of Tamilnadu .
- one of the severely **affected** place by the coastal erosion and the structures that are constructed on the seashore are affected.
- We have analyzed the stability and displacement of the geotextile tube and coastal sand with a PLAXIS 2D which is a finite element analysis software.
- From the analysis result, we have observed that the application of geotextile tube at coastal regions can prevent 95% of the coastal soil displacement which results in the prevention of coastal erosion.

3

OBJECTIVE

The major aim of this research is

- To analyze the properties of coastal soil and geotextile materials using **PLAXIS 2D** software.
- To prevent coastal erosion and to regain the original old look of the beautiful beaches that are affected.
- To help the ecosystems from the detoriation of wetland and habitat loss of plants and animals.
- To determine the displacement and stability of geotextiles tubes at coastal regions.

4

GEOTEXTILE TUBE TECHNOLOGY

- Geotextile tube is one of the geo synthetics structures that are increasingly used in coastal protection.
- It is made from high-strength geo synthetic fabrics that allow the water to flow through pores while retaining the filling materials.
- So as per my study, by using geotextile tube technologies the soil erosion can be controlled much better than the other methods.
- It is highly cost effective and there won't be any need of RCC structures in this method.
- We have chosen sangu durai beach which is dangerously one of the severly affected beach by coastal erosion.
- So in this study we have analyzed the possibilities of using this geotextile tube technology to prevent erosion in sangu durai beach.
- For that we have used PLAXIS 2D 8.6 which is a geotechnical finite element analysis software to determine the displacement soil before and after the application of geo tubes .

5

OCCURACE OF COASTAL EROSION IN INDIA

Effects:

- Wild life
- Property loss
- Economic Value
- Groines
- Breakwaters
- Jetties
- Erosion matts

6

SANGUDURAI BEACH - KANYAKUMARI

7

Impact of erosion at Sangudurai beach

8

GEOTEXTILE TUBE TECHNOLOGY

Geotextiles are permeable fabrics which, when used in association with soil, have the ability to separate, filter, protect or drain. As the use of geotextile fabrics has expanded there has been the introduction of geotextile composites and the development of products such as geo grids and meshes.

9

PROPERTIES OF FILLING MATERIAL

Property	Symbol	Value	Unit
Poisson ratio	ν	0.35	
density	ρ	1600	Kg/m^3
porosity	n	0.3	
cohesion	ν	1000	Pa
Friction angle	ϕ	35°	

10

PROPERTIES OF GEOTEXTILE MATERIAL

Property	Value	Unit
stiffness	$1900x10^6$	N/m^2
Poisson's ratio	0	
Density	0.450	Kg/m^3
Tensile strength	$200x10^6$	N/m^2
Specific gravity	0.91	Kg/m^3

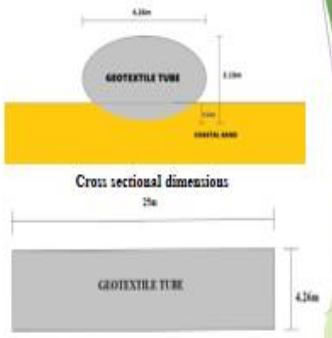
11

PLAXIS 2D 8.2

- **PLAXIS** is the leading geotechnical finite element software, specifically developed for the 2D and 3D analysis of deformation, stability.
- It is currently used by over 3000 engineers worldwide in the civil engineering, nuclear, oil & gas and renewable energy industries
- Renowned for its ease of use and accurate soil models, it will help you optimize your designs and reduce conservatism compared to relying on traditional methods.

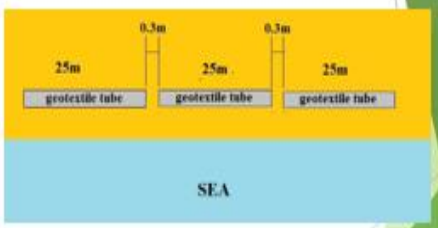
12

PROPOSED DESIGN OF GEOTUBE



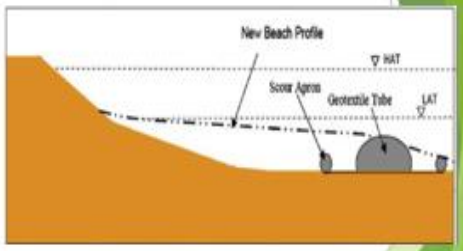
13

PROPOSING FORMATION OF GEOTUBES



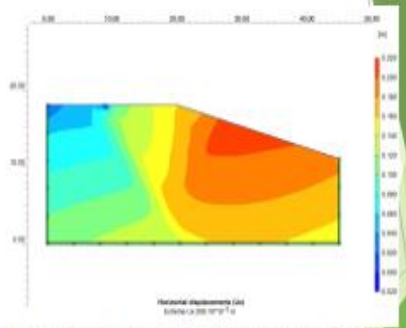
14

CROSS SECTION OF THE DESIGN CONCEPT



15

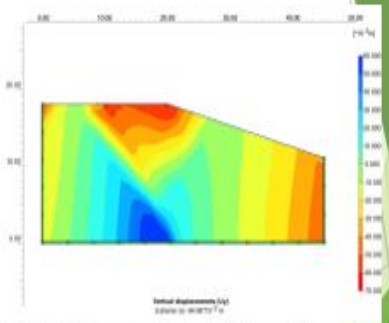
NATURAL DISPLACEMENT OF THE SOIL AT SEASHORE



From the analysis result we found that the horizontal displacement of the particle is 0.20m.

16

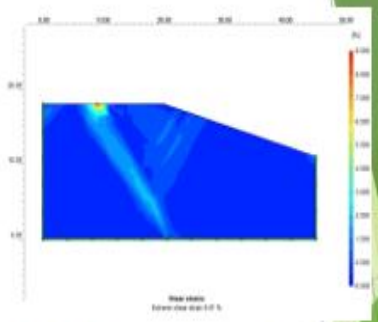
VERTICAL DISPLACEMENT



From the analysis result diagram we can get the vertical displacement of the particle is -0.04m.

17

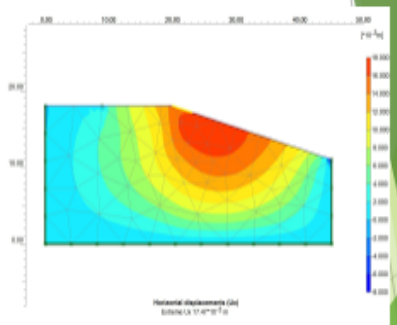
SHEAR STRAIN



- The shear strain of the land with respect to the wave force value is 9.01%.
- Here all these values denote the soil displacement of the seashore which results in erosion.

18

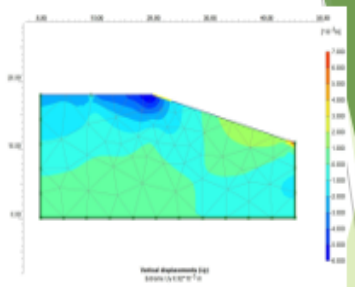
DISPLACEMENT OF SOIL WITH SINGLE LINED GEOTUBE



horizontal displacement of soil after the construction of single lined geotextile tubes is 0.017m.

19

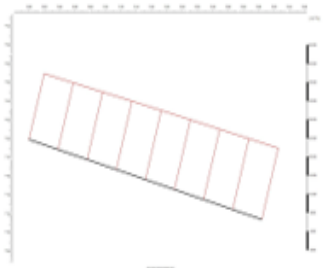
VERTICAL DISPLACEMENT



The vertical displacement after the construction of geotextile tubes is 0.062m.

20

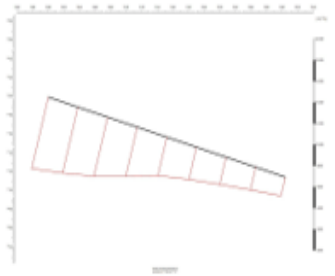
DISPLACEMENT OF GEOTUBES DUE TO WAVE PRESSURE



From the PLAXIS software analysis the extreme horizontal displacement of geotube applied at the seashore is 15.86×10^{-3}m

21

VERTICAL DISPLACEMENT OF GEOTUBES



The extreme vertical displacement of single lined geotube at the seashore is -7.03×10^{-3}m.

22

RESULT AND DISCUSSIONS

- As per our study the total area of sangudurai beach is around 200m length and 50m width. The angle of inclination from the seashore the maximum height of the ground 107°.
- Here we have done a case study of placing a geotube with a length of 25m each with a spacing of 0.3m . it requires around 8 tubes and it has to be placed near the seashore where the erosion severely occurs.
- Here we suggest using the geotube with the effective height of 4.26m with the effective width of 2.13m. From the effective height, 0.53m will be under the soil and the remaining will be exposed over the land

23

CONCLUSION

- The main objective of this geotextile tube technology is to prevent the coastal erosion and it can be used in Sangu durai beach also to regain its original old look and it helps the fishermen community who are living around the area. It is a cost effective and highly economical method.
- considerations on material availability near the site and the precautions to minimize future maintenance can reduce the cost of geotextile tube as coastal defense structure. This geotextile tube technology can contribute to the sustainable and safer living environment.
- World is successfully facing the challenge of nature for the protection of people for their happy and peaceful live.

24

ADVANCED CONSTRUCTION MATERIALS

Presented by,

SHIHANA.S

DEPARTMENT OF CIVIL ENGINEERING

ADVANCED CONSTRUCTION MATERIALS

Presented by,

SHIHANA.S

DEPARTMENT OF CIVIL ENGINEERING

1

HOW TO RECOVER FROM THIS ISSUES?

2

INTRODUCTION

New advanced materials offer opportunities to change the way in which we construct and retrofit buildings . They give added value in terms of increased performance and functionality.

3

TYPES OF MATERIALS

- *Translucent concrete*
- *Rich lite*
- *Self -healing concrete*
- *Self-compacting concrete*
- *Liquid granite*
- *Bendable concrete*
- *Transparent aluminum*
- *Paper insulation*

4

TRANSLUCENT CONCRETE

- ✓*Translucent concrete is based on nano- optics.*
- ✓*Materials: Fiber concrete & Optical fiber.*
- ✓*Colour: White, Grey, Black.*
- ✓*Energy saving & Good Aesthetical View.*
- ✓*Expensive & Skilled labour required.*

5

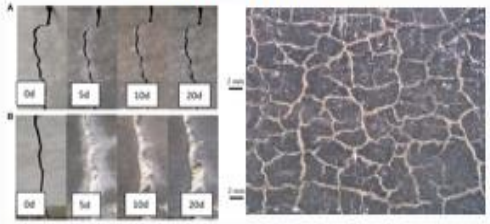
RICH LITE

- ✓*The panel resistance to high temperature has been claimed to be up to 350 F.*
- ✓*Materials: Cellulose fiber, Phenolic resin.*
- ✓*Natural fibers are made from plants, animals and minerals sources .*

6

SELF HEALING CONCRETE

This cement is mixed with microcapsules that release a glue - like epoxy resin that will automatically repair any cracks that form in the sidewalk or roadway.



7

SELF COMPACTING CONCRETE

- ✓*It is highly flowable type of concrete that spreads into the form without the need of mechanical vibration.*
- ✓*The importance of self compacting concrete is that maintains all concrete's durability and characteristics, meeting expected performance requirements .*

8

LIQUID GRANITE

- ✓*Liquid granite is made up of between 30-70% recycled materials mainly from Industries.*
- ✓*It uses less than one third of the cement used in precast concrete ,which also reduces its carbon footprint.*
- ✓*It hide cracks in floors & walls.*
- ✓*It is environmentally safe and user- friendly.*

9

BENDABLE CONCRETE

- ✓*Traditional concrete is a very brittle material; any buckling or bending will cause it to crack.*
- ✓*A new type of fiber-reinforced bendable concrete might just be putting an end to that issue .*

10

TRANSPARENT ALUMINIUM

- ✓*It is extremely durable crystalline material with excellent optical transparency.*
- ✓ *It is used in windows, domes, etc.,*
- ✓*It has good corrosion resistance.*
- ✓*Resistance to damage from radiation and oxidation.*

11

PAPER INSULATION

- ✓*It is made up of newspaper and cardboard, superior alternative to chemical foams.*
- ✓ *It can be blown into cavity walls, filling every cracks.*
- ✓*Good soundproofing qualities when used in walls, floors and ceiling.*
- ✓*It commonly known as Cellulose.*

12

CONCLUSION

- These new emerging building maaterials should be replaced with old ones to improve and helps in recycling of the materials and save energy and make our country pollution free
- If these materials are used in construction we can save money, time and energy.
- So more new innovative materials should be created and make construction of the building simpler with more strength.

13

14

We Make You Shine

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St. Joseph's Group of Institutions

Jeppiaar Educational Trust

OMR, Chennai - 119.

WEB APPLICATION FOR THE DESIGN OF REINFORCED CONCRETE ELEMENTS USING IS456:2000

PRESENTED BY:

SK. NOORUDDIN

G. YOKESHWARAN

GUIDE:

Dr. V. GOWRI M.E.,Ph.D

We Make You Shine

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1

INTRODUCTION

- Designing the reinforced concrete elements of a structure indeed is a crucial phase of construction where more time and effort is invested.
- As students, we spend more amount of time in manually designing RCC elements for educational purpose and projects etc.
- Despite spending more time we are not sure about the accuracy of the results that we get by manually designing.

2

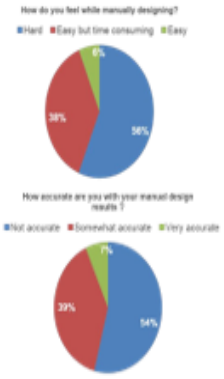
OBJECTIVE

- The main objective of this project is to automate the tedious process of manually designing the reinforced concrete elements.
- This project tends to effectively reduce the time, labour and errors involved in manual designing.
- This projects also aims to create an online platform where designing reinforced concrete becomes easy for the professionals as well as students.

3

NEED FOR PROJECT

- The need for this project is so high due to the complexity involved in the manual design process of reinforced concrete elements.
- Industry people and students are searching for an online solution to handle their problem with manually designing RC elements.
- In order to provide them an optimum solution 'EASY RC DESIGN' web application has been developed.



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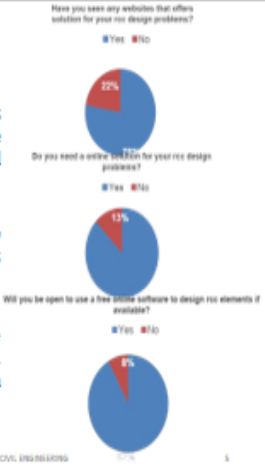
SCOPE OF PROJECT

- The scope of this project is so wide since it has a wide range of functionality and huge cluster of target users.
- 'EASY RC DESIGN' web application is not one of its kind but the first of its kind.
- Industry is ready to embrace more and more automated solutions to evolve in a greater pace.



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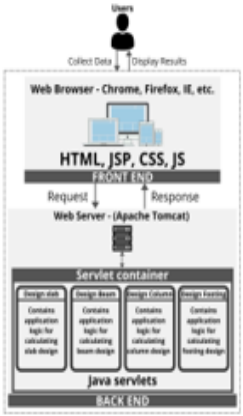
SYSTEM ARCHITECTURE

- The web application can be accessed through any web browser.
- The front end interface has been developed using HTML, JSP, CSS, JS.
- Apache Tomcat has been used as the web server.
- The back end process has been coded in Java servlets.



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WORKING FLOW

- The user has to launch the app in any web browser.
- The user should select which RC element they wish to design
- They should select among the types available in each element.
- Then the inputs should be submitted and results can be obtained.
- The results are downloadable in spreadsheet format.

7

CONCLUSION

- The literatures were properly studied, inferred and the lack in functionalities in the literatures were properly identified.
- With those findings our objective was set to make a completely efficient web application that can automate RC elements design as per the IS456-2000.
- The need for this project was so clear that users are expecting a user friendly, accurate and quick online solution.
- Hence, I conclude that a web application namely 'EASY RC DESIGN' has been successfully developed and it has been ensured that it bridges all the gaps and fissures that the previous models had in terms functionality, usability, accuracy and speed.
- This web application will be first of its kind on web as there is no other application that offers same functionality.

8

REFERENCES

- Bureau of Indian Standard: IS 456:2000, Plain and Reinforced Concrete Code of Practice (Fourth Revision), NEW DELHI.
- Mr. P.C. Varghese, Limit State Design of Reinforced Concrete.
- Mr. N. Subramanian, Design of Reinforced Concrete Structures.

9

THANK YOU!!!

10

NANO CONCRETE

PET ENGINEERING COLLEGE
VALLIOOR

SUBMITTED BY

KOWSALYA.V (963217103012)

NANO CONCRETE

PET ENGINEERING COLLEGE
VALLIOOR

SUBMITTED BY

KOWSALYA.V (963217103012)

1

INTRODUCTION

- Nanotechnology is one of the most active research areas which has wide application in almost all the fields.
- As concrete is most usable material in construction industry it's been required to improve its quality.
- Improving concrete properties by addition of nano particle have shown significant improving than conventional concrete.

2

NANOTECHNOLOGY FOR CONCRETE

- Improving the materials bulk properties.
- Ability to control or manipulate materials at the atomic scale.
- NANOSCALE ATTACK ON ASR (ALKALI SILICATE REACTION)
- To obtain thinner final products and faster setting time.
- Cost effectiveness.
- Lowered levels of environmental contamination.

3

NANO CONCRETE

- A concrete made with portland cement particles that are less than 500mm as a cementing agent.
- Currently cement particles sizes range from a few nano-meters to a maximum of about 100 micro meters.

4

NANO MATERIALS

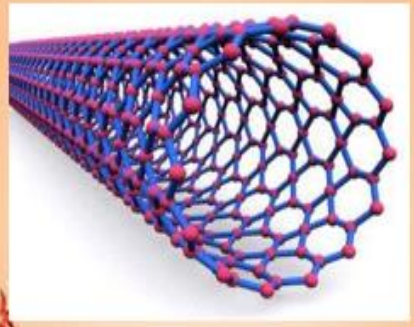
- Carbon Nanotubes
- Nano-silica
- polycarboxylates

5

CARBON NANO TUBES

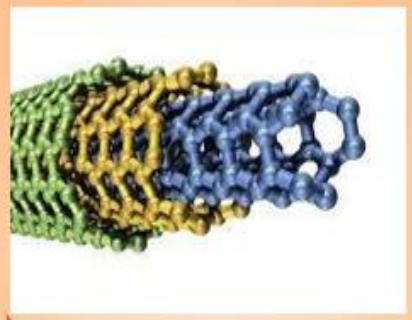
- Carbon Nanotubes (CNTs): Large molecules of pure carbon that are thin cylinders, about 1 – 3nm in diameter, and 100s – 1000s of nanometers long.
- Structures:
  - Single - Walled
  - Multi – Walled

6



SINGLE WALL NANO TUPE

7



MULTI WALL CARBON NANO TUPE

8

PROPERTIES

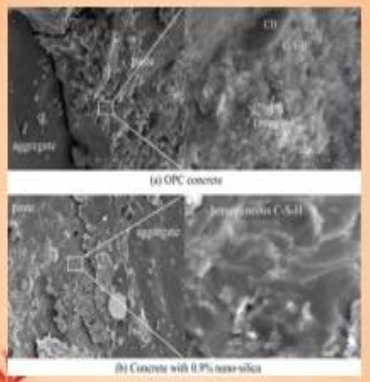
- CNTs have high thermal conductivity
- CNTs have high electrical conductivity
- CNTs aspect ratio.
- CNTs are very elastic ~ 18% elongation to failure.
- CNTs have very high tensile strength.
- CNTs are highly flexible – can be bent considerably without damage.
- CNTs have a low thermal expansion coefficient.

9

NANO SILICA

- It is the first Nano product that replaced the micro silica.
- Advancement made by the study of concrete at Nano scale have proved Nano silica much better than silica used in conventional concrete.

10



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PROPERTIES

- High compressive strengths concrete (15MPa and 75 Mpa at 1 day: 40 Mpa and 90 Mpa and at 28 days and 48 Mpa and, 120 Mpa at 120 days.
- High workability with reduced water/cement ratio.
- Fills up all the micro pores and micro spaces.
- Cement saving up 35 – 45 %.
- Increase Viscosity of fluid phase.
- Improve Hydration process

12

POLYCARBOXYLATES

- Polycarboxylates or polymer based concrete admixtures are High Range Water Reducing admixture.(HRWR)
- Low dosage – reduce water as much as high dosage of conventional admixtures.
- Higher dosage – produce Self Compacting Concrete. (SCC)
- The admixture type is very suitable for underwater anti – washout concrete.

13

POLYCARBOXYLATES

14

RESULTS

- Resistance to compression – 40 to 90 MPa in 1 day. Resistance to compression from 70 a 100 Mpa (or more) in 28 days.
- Produce high resistance even with low addition (1 to 1.5% of the cement weight) and gives self compacting characteristics with higher proportions (2.5%).
- Meets the norms of environmental protection.
- 70% less use of additives as traditional silica, super plasticizers or traditional fibres.

15

BENEFITS OF NANO CONCRETE

- Cessation of contamination caused by micro silica solid particles.
- Lower cost per building site.
- Concrete with high initial and final compressive and tensile strengths.
- Concrete with good workability.
- Cessation of silicosis risk.

16

CONCLUSION

- Well dispersed nano particles increase the viscosity of the liquid phase, improves the segregation resistance and workability of the system.
- Accelerates the hydration.
- Better bond between aggregate and cement paste.
- Improve the toughness, shear, tensile strength and flexural strength of concrete.

17

SCOPE

- If portland cement can be formulated with nano-size cement particles, it will open up a large number of opportunities.
- The cement will not only be more economical than organic polymers but also will be fire resistant.
- A number of investigation have been carried out for developing smart concrete using carbon fibers.

18

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PAPER PRESENTATION

ORGANIZED BY:

Department of Civil Engineering

Meenakshi Sundararajan Engineering College

"STUDY OF IMPACT OF SOLID WASTE DISPOSAL ON GROUND WATER USING PERFORMANCE INDICATORS"

PRESENTED BY:

CHANDANA M (&) DHARSHITHA N

SRI VENKATESHWARA COLLEGE OF ENGINEERING

VIDYANAGAR CROSS, BENGALURU - 562157

SVCE BENGALURU

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VIDYANAGAR CROSS, BENGALURU - 562157

1

INTRODUCTION

- Water is a universal solvent, so it can contain many dissolved chemicals especially groundwater which moves through soil and rocks, picking up pollution along the way.
- Leachate generated by open solid waste disposal sites contains substances likely to contaminate groundwater. The impact of potential contaminants migrating from leachate on groundwater can be quantified by monitoring their concentration and soil properties at specific points in the unsaturated zone.
- Leachate generated by open solid waste disposal sites contains substances likely to contaminate groundwater. The impact of potential contaminants migrating from leachate on groundwater can be quantified by monitoring their concentration and soil properties at specific points in the unsaturated zone.

2

- These can even lead to water being declared unsafe for consumption. At high concentrations, dissolved solids also will shorten the life of your hot water heater.
- Groundwater, as an excellent source of water supply, provides substantial quantity of potable water to many communities in Bangalore. It is a major source of water that should be of concern with regards to recent increasing rate of surface water pollution and population growth in most rural communities, a methodology for testing groundwater is essential due to pollution.

3

OBJECTIVES

The main key objectives of the study are:

i. To collect water sample using stratified random sampling technique.
ii. To compare and analyze water quality parameters reference with BIS standards.
iii. To determine quality performance index using water quality parameters.

4

STUDY AREA

- The study area is the MANDURU Municipal solid waste (MSW) disposal site located at Bangalore the capital city of karnataka state and it is the one of fast grow thing city in India. Currently, 4000 metric tons (MT) of municipal solid waste are generated in the city.
- The percentage composition of the municipal solid waste generated in Bangalore city Municipal dump site is situated in manduru Village.
- The area of the dump yard is 165 hectares and situated in the middle of settlements with a characteristic wetland nature and has been in operation for the past two decades. A total of 357 tons of solid waste generated daily by the municipal assembly is composed of organic, plastic, metals parts of electronics, bottles/glasses, construction debris, paper and special waste from hospitals.

5

Figure - Aerial map of dump yard

Figure - Sampling location from dump yard

6

Groundwater samples were collected during dry period around the dumpsite as per availability , 5 samples from each area given below

i. Samrudhi Layout
ii. Bayapannahalli
iii. Katugollahalli
iv. Prestige apartments
v. Gunduru
vi. Manduru

7

METHODOLOGY

8

RESULTS AND CONCLUSION

AREA	SAMPLE QUALITY INDEX	AVERAGE PERFORMANCE QUALITY INDEX	STATUS
SAMRUDHI LAYOUT	110/45/79/62	74	POOR
BAYAPANNAHALLI	55/53/75/81/75	66	POOR
KATUGOLLAHALLI	83/113/54/39	72	POOR
PRESTIGE APARTMENTS	94/53/86/85/30	79	VERY POOR
GUNDURU	74/106/64/35/91	70	POOR
MANDUR	71/115/102/166/102	113	Unsuitable for drinking

TABLE - OVERALL PERFORMANCE QUALITY INDEX

9

REFERENCES

- R. S. Govindaraju, "Artificial Neural Network in Hy-drology," Journal of Hydrologic Engineering.
- United Nations Environment Programm (UNEP), "Desk Study on the Environment in the Occupied Palestinian Territories.
- S. K. Jain, V. P. Singh and M. T. van Genuchten, "Analysis of Soil Water Retention Data Using Artificial Neural Networks," Journal Hydrologic Engineering.
- S. Lee, S. Cho and M. Wong, "Rainfall Prediction Using Artificial Neural Networks," Journal of Geographic In-formation and Decision Analysis.

10

THANKYOU

11

Presenting on

DESIGN OF RURAL WATER DISTRIBUTION NETWORK IN ELETHOTADAHALLI VILLAGE

Presented by;

Asha. S (IVE17CV006)

Kruthi . A (1VE17CV034)

SVCE BENGALURU

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DESIGN OF RURAL WATER DISTRIBUTION NETWORK IN ELETHOTADAHALLI VILLAGE

Presented by:
Asha. S (1VE17CV006)
Kruthi . A (1VE17CV034)

1

CONTENTS:

2

INTRODUCTION

Water is the major important source for all living beings for their survival. Water can also be termed as bloodline of life. Being such an important resource, sometimes it is scarce and other time it becomes abundant, proving that its existence is nonlinear. The water is used for various activities by human beings, like domestic, drinking, power generation etc. The water shortage is the most significant and challenging situation in India. Due to the increase in population, supply of water is a major issue, with the increase in demand of water and increased rates of depleting ground water and deterioration of water quality. Managing such an important scarce water in a country like India poses a serious challenge.

The design of water distribution system plays an important role which can overcome the water scarcity and the water demand by the users. Water distribution system is a hydraulic design leads to supply of water to the consumers. It can be achieved by designing a proper water distribution network.

3

PROBLEM STATEMENT & NEED OF THE STUDY

The rustic territories were generally reliant on nearby sources, frequently deficient in amount and dubious in quality of water. Most the rustic regions have no appropriate water conveyance system. Even Elethotadahalli town has no legitimate water dispersion arrange. Ladies go far places to fetch water from different towns or adjacent lakes.

The term water security characterizes the limit of a populace to defend practical access to satisfactory amounts of worthy quality water for continuing vocations, human prosperity, and financial improvement, for guaranteeing assurance against water-borne contamination and water-related catastrophes, and for protecting biological systems in an atmosphere of harmony and political dependability. Elethotadahalli town has no legitimate water circulation organize this prompts plan of channels and hubs. So the town will get adequate amount of water. As the prerequisites of water conveyance ought to be fit for providing water at all the expected spots with adequate weight head

4

OBJECTIVES

The main objectives of the project are ;

1. Fixing demand data using questionary survey and population forecasting.
2. Determining nodal elevation (RL's) and fixing pipe length by profile leveling.
3. Design of Water distribution network layout using EPANET (demand adjust EPANET Analysis).

5

STUDY AREA

Elethotadahalli is the town in Ramanagara district Channapatna taluk,75 km from Bangalore. It is encompassed by Hosur in east and Mandya in the west. Its land co-ordinates are 12030'49.2" N and 77011'36.3" E. The temperature in this taluk is around 27°C to 28°C, average humidity is 56%, average pressure is 1011 (mBar), average wind speed is 10kmph &The land is elevated for about 681m (2234 ft) above the sea level.

6

Fig. Study area – Map view

7

METHODOLOGY

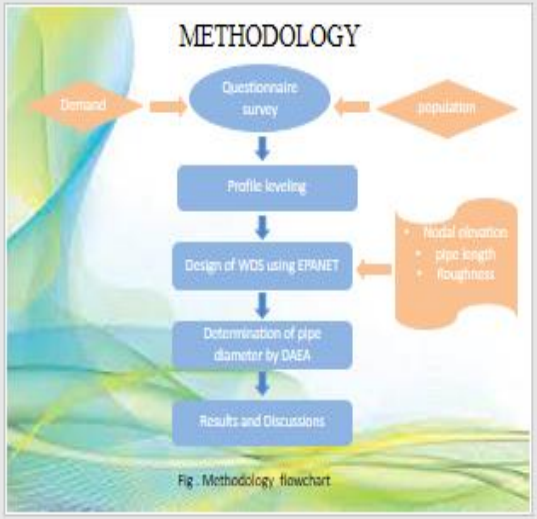

Fig . Methodology flowchart

8

METHODOLOGY DESCRIPTION

1. From the questionnaire survey demand data is calculated and population forecasting has to be done.
2. After the questionnaire survey is done field survey work has to be done by profile leveling.
3. Then the design of water distribution system is done by using EPANET to know the length and diameter of the pipe.
4. At last demand adjusted is done by EPANET analysis for flow and pressure.

9

POPULATION FORECAST;

Population forecast can be done by the following ways:

1. Arithmetic increase method.
2. Geometric increase method.
3. Incremental increase method.
4. Graphical method.
5. Logistic curve method.

PROFILE LEVELING;

It is a method of surveying that has been carried out along the central line of a track of land on which a linear engineering work is to be constructed/ laid. The operations involved in determining the elevation of ground surface at small spatial interval along a line.

10

EPANET;

EPANET is an open space, water dissemination framework demonstrating programming bundle created by the US Ecological Assurance Organization's (EPA) Water Supply and Water Assets Division. It performs broadened period reenactment of water driven and water-quality conduct inside pressurized pipe organizes and is intended to be "an examination apparatus that improves our comprehension of the development and destiny of drinking-water constituents inside conveyance frameworks". EPANET first showed up in 1993.

It includes;

1. Hydraulic modeling capabilities
2. Pipes
3. Water quality modeling capabilities
4. Time patterns
5. Hydraulic simulation model

Physical Components of EPANET;

1. Junctions
2. Reservoirs
3. Tanks
4. Emitters

11

CONCLUSION

1. From questionnaire survey, the base demand is determined with the help of population forecasting.
2. From profile leveling the pipe length and nodal elevation are determined.
3. These inputs are used in EPANET (DAEA) to design the required Water Distribution System for the Elethotadahalli Village.
4. Finally the WDN comprises of the Overhead Tank of diameter 4m and the maximum level is 3m from the bottom of the tank with a capacity of 37680 liters.
5. The water distribution system comprises of 108 junctions (nodes) and 108 pipes with varying diameter. The three consecutive pipes from the tank has 100, 90, 70 mm diameter, whereas the remaining 105 pipes has a diameter of 60mm.

12

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Department of Mechanical Engineering

Symposium

YANTRA 2021

Inaugurated: 24th April 2021

The Mechanical Department Symposium alias YANTRA took place on 24th April2021 and there were multiple technical and non-technical events took place. Number of students from both our college and other colleges took part in these events.

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SAE INDIA SOUTHERN SECTION

DEPARTMENT OF MECHANICAL

presents

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Prize Amount:

1st prize - 750/-

2nd prize - 500/-

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FOR CONTACT:

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8668171050 (SHYAM)
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YANTRA2021@GMAIL.COM

FREE REGISTERATION

april 24 th


MEENAKSHI SUNDARARAJAN
ENGINEERING COLLEGE
DEPARTMENT OF MECHANICAL ENGINEERING
PRESENTS
YANTRA 2K21
SHIPWRECK
ENTRY FEES:RS 20
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WINNER RS.500
FOR RUNNER RS.300
TO CONTACT:
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HELD ON 24TH,
APRIL 2021
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SOUTHERN SECTION

MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE

DEPARTMENT OF MECHANICAL ENGINEERING

PRESENTS

SAE INDIA SOUTHERN SECTION

YANTRA 2021

SHOWTIME

(TALENT CONTEST)

FREE ENTRY

CATEGORIES:

- DANCING
- SINGING
- ACTING

WIN CASH PRIZE UPTO RS.500

VIJAY PRAKASH - +91 9025273414

KRISHNA CHETAN - +91 9550174176

@YANTRA_2K21

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DEPARTMENT OF MECHANICAL

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TV TRIVIA

(A WEB SERIES QUIZ CONTEST)

ENTRY FEES: RS 25

WIN CASH PRIZE UPTO: RS 750

CONTACT

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HELD ON 24TH APRIL 2021

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MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE

DEPARTMENT OF MECHANICAL ENGINEERING

Presents

YANTRA 2021

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SOUTHERN SECTION

VALORANT

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Entry Fee Rs.25

For more Details:

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+91 6381498836

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yantra2021@gmail.com

MATCH ON
24TH APRIL, 2021

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http://bit.ly/valorant_gaming

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Flyers

Logo in certificate

Souvenirs

Banners

Contact

For details contact:

Staff coordinators
Mr. S. Satheesh Kumar – 9790446537
Mrs. R.Lakshmi – kalshmpsy@gmail.com

Student coordinators
S.Suriya prakash- 7397280103
Aqel mohammed -9884763371
Mansi K Dolia
Pooja Rajagopal

Sponsor coordinators
Sayed Md. Ejaz -7299379233
A.R Bharath -9789838703
B. Shweta Krishnan
R. Madhumitha

PRANAV 2K18 pranav_2_k_1_8 pranav.ece2k18@gmail.com

and EECSA proudly presents

PRANAV 2K18

A NATIONAL TECHNICAL SYMPOSIUM

- Grab this golden oppurtunity
- Unleash your potential
- Discover your skill
- Amazing prizes await you

Come one, come all, let's make this event a memorable moment of our life..!

About Us

Meenakshi Sundararajan Engineering College was founded by IIET (Indian Institute of Engineering Technology) by our Founder Late Shri K.R Sundararajan in the year 2001.

Our college paves way for the students to become technically elite over the completion of the course.

The educational institution strives constantly not only to develop academic excellence and impart engineering knowledge to young men and women, but also to impart social responsibility.

ELECSA

Electronics and Communication Students Association

ELECSA of MSEC is a governing body that organises every technical events of the department.

Every year ELECSA of MSEC conducts a National technical symposium "PRANAV".

PRANAV organizes a variety of inter college events and competition.

PRANAV incorporates the idea of creating social awareness to the general public and the student community.

To exhibit a sense of social conscience, this year we have chosen to support "**CHILDREN WITH CEREBRAL PALSY**" as the noble cause of our symposium.

Cerebral Palsy is a congenital disorder that affects the brain causing muscular paralysis. It is a lifetime disability.

So we, the student community request the corporate sector, private firms, and the general public to be a part of our initiative.

Theme

Evolution of Electronics

With the advent of the iPad, iPhone droid and other modern electronic marvels, it would appear that we are in the midst of an electronic evolution. Electronic gadgets are a part of our daily life. It helps us overcome many difficulties and make our tasks easier. Our theme "Evolution of Electronics" is an attempt to show that technological evolution is the result of our own desire to lead a better life.

"Any sufficiently advanced technology is indistinguishable from magic"

– Arthur. C. Clarke

Events

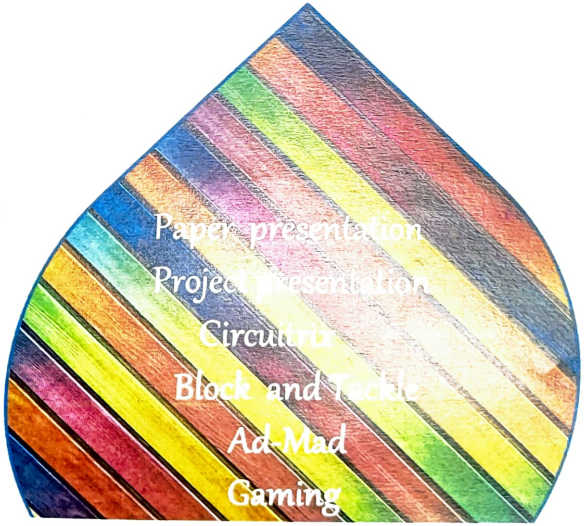
- Project Presentation
- Paper Presentation
- Tech Connections
- Shipwreck
- Break The Code
- Tech Bate
- Manual Skills
- Wrap It Up
- Adzap
- Tech Hunt
- Binary Battle
- Edify
- Photogrpahy/Short Film
- Matomania
- Logo Designing
- Are You The One?
- Line Follower
- Quiz
- Minute To Win It
- Circuitrix
- Surprise Event
- Mega Event


VENTS


Code Mantra
Line Follower
Tech Connexions
Tech hunt
Minute to win it


Contact us at:
Staff Co-ordinator:
Mrs.R.Lakshmii:
kalshmipsy@gmail.com
Mr.S.Satheesh Kumar: 9790446537
Student Co-ordinator:
Mansi K Dolia-9840066826
Aqel Mohammed.S-9884763371
Pooja Rajagopal-9677047742
Suriya Prakash.S-7397280103
pranav.ece2k18@gmail.com


SAGE FROM TEAM PRANAV
ected Madam/Sir,
On behalf of the department of ECE
would like to extend a cordial welcome to
chnical symposium ,'PRANAV 2k18'
ed by our student governing body
The theme of our symposium is
TRONIC EVOLUTION'.
We have a wide range of events to
nge and excite the participants and we
your students will be able to join us on this
ccasion . We anticipate your presence on

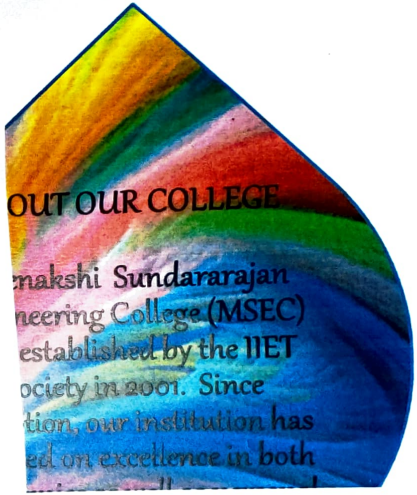

Paper presentation
Project presentation
Circuitrix
Block and Tackle
Ad-Mad
Gaming


Mathomania
Transhout
Mega Event
Are you the one
Edify


MEENAKSHI
SUNDARARAJAN
NGINEERING COLLEGE
&
ELECSA
RE PROUD TO PRESENT...
PRANAV
2K18
A NATIONAL LEVEL
ECHNICAL SYMPOSIUM

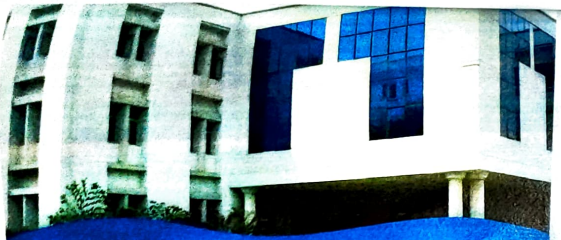

PRANAV 2k18
Pranav, the symposium of
Electronics and
Communications
department, is back once
again 14th year, with exciting
opportunities for college
students.


Theme:
We the students of
Electronics and
Communication invite you
to join us in the exploration
of Evolution Of Electronics.


OUT OUR COLLEGE
enakshi Sundararajan
neering College (MSEC)
established by the IIET
ociety in 2001. Since
tion, our institution has
ed on excellence in both


ABOUT ELECSA
Electronics and Communication
Students Association (ELECSA)
was formed in 2005, and is
responsible for organizing
seminars, guest lectures,
symposiums and other events with
regard to ECE department.


Cause:
Cerebral palsy (CP) is a group of
permanent movement disorder
that appears in early childhood. It
is caused by abnormal
development or damage to the
parts of the brain that controls
balance and posture. Supportive
medications, treatments and



ABOUT OUR COLLEGE

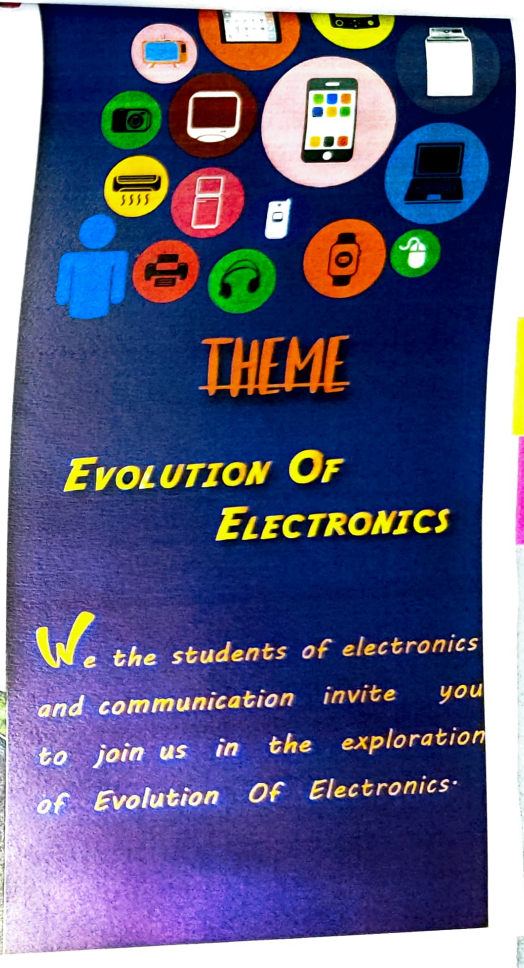
Meenakshi Sundararajan Engineering College was founded in 2001 by one of the educationists of south india, Professor K. R. Sundararajan. Our college is a part of K.R.S Educational campus which includes the Indian Institute of Engineering Technology (IIET) Estd .1947. Since inception our institution has focused on excellence in both academics and professional development , thereby considered as one of the most disciplined colleges of today.

Cerebral Palsy
ALLIANCE

CAUSE

Cerebral Palsy (CP) is a group of permanent movement disorder that appears in early childhood. It is caused by abnormal development or damage to the parts of brain that controls balance and posture . Supportive medications, treatments and surgeries will help the children to acheive a near normal life.

No act of kindness, No matter how small, Is ever wasted.



THEME

EVOLUTION OF ELECTRONICS

We the students of electronics and communication invite you to join us in the exploration of Evolution Of Electronics.

About ELECSA

Electronics And Communication Association (ELECSA) was formed in 2005, and is responsible for organising seminars , guest lectures , symposium and other events related to ECE.

ELECSA

STAFF CO-ORDINATORS

Mr. S.SATHEESH KUMAR - 9790446537

Mrs. R.[illegible]@gmail.com

STUDENT CO-ORDINATORS

S. SURIYA PRAKASH - 7397280103

AQEL MOHAMMED - 9884743374

MANSI K DOLIA

POOJA RAJAGOPAL

SPONSOR CO-ORDINATORS

SAYED MD.EJAZ - 7299379233

A.R. BHARATH - 9789838703

B. SHWETA KRISHNAN

L.R.MADHUMITHA

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pranav.ece2k18@gmail.com

College
&
ELECSA
Proudly presents

PRANAV 2K18

A National Level
Technical Symposium

About ELECSA:

Electronics and Communication Students Association (ELECSA) was formed in 2005,and is responsible for organising seminars, guest lectures, symposium and other events related to ECE

Why Sponsor?

- Support/Engage in the community where you do business and your employees live.
- Promote your brand/business within the local community/region through our symposium.
- Recognize/Encourage our team effort.

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CONTACT US AT

Staff Co-Ordinators

Mr.S.Satheesh Kumar-9790446537

Mrs.R.Lakshmi-kalshmpsy@gmail.com

Student Co-Ordinators

S.Suriya Prakash -7397280103

Aqel Mohammed-9884763371

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College & ELECSA

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PRANAV 2K18

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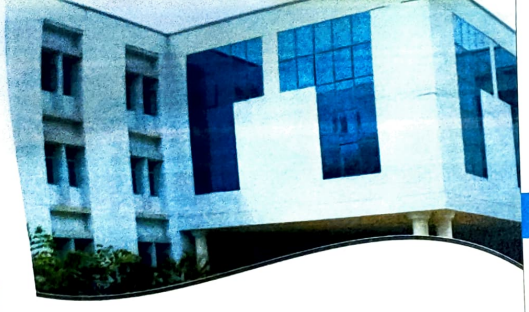

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Cerebral palsy

Cause:

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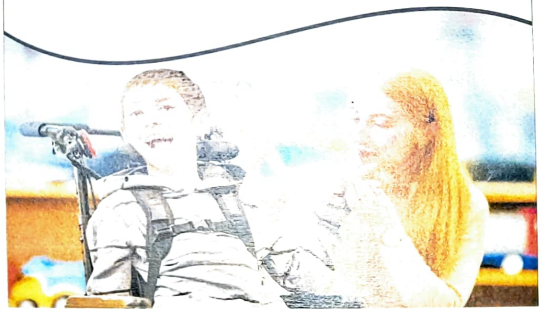


Theme

We the students of electronics and communication invite you to join us in the exploration of Evolution Of Electronics.

Events

- Paper presentation
- Project presentation
- Shipwreck
- Adzap • Are you the one
- Binary battle • Edify
- Photography
- Minute to win it
- Tech connection
- Break the code
- Techbate
- Line follower
- Tech hunt
- Snap it up
- Mathomania
- Mega event

REPORT ON PRANAV 2k18

Objective: **To enhance our knowledge in technology**

Date: **15/09/2018**

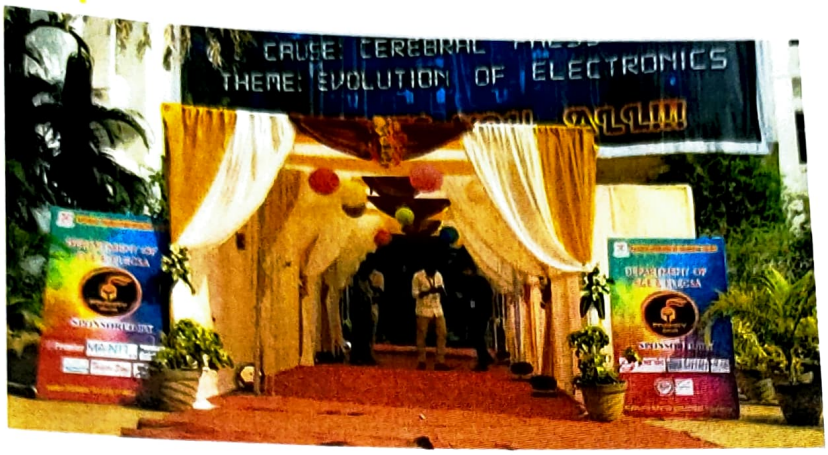
Place: MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE

Technology is the key to advancement, so as engineers we need to know the advanced technologies that would help to build the surrounding environment. To achieve this we, the students of ECE department conducted the National level Technical symposium "PRANAV 2k18" on **15th September, 2018**. The theme of our symposium was Evolution of electronics. The main concept is that how the electronics get smaller and smaller day by day. The brief history of electronics helps us to revive our minds and to get inspired by the phenomenal discoveries of some great men. The symposium was conducted for a cause ' Cerebral palsy' where we collected money and donated it to Maithree School.

We conducted many technical and non-technical events. Technical events include the paper presentation, project presentation, Tech connections, Code mantra, Line follower, etc. Specific judges were allotted for each and every technical events. The winners of the technical events were given prizes and also they need to participate on the mega event. The students from various colleges came and participated in each and every event that took place in our symposium. Around 400 to 500 students registered for various events. Workshop was also conducted at our symposium. The topic is about "Robotics". Finally, the mega event was conducted. The top 3 of each technical events were selected and asked for taking part in the mega event. The winners of this event were given special prizes.

The symposium was well planned by the students. Each and every student put in their efforts for the symposium. With all these efforts and the support from our department, the symposium was conducted successfully.

PRINCIPAL
MEENAKSHI SUNDARARAJAN ENGINEERING COL
363, ARCOT ROAD, KODAMBAKKAM
CHENNAI-600 024



WELCOME BANNER PRANAV 2K18 IN MAIN BLOCK

PRINCIPAL
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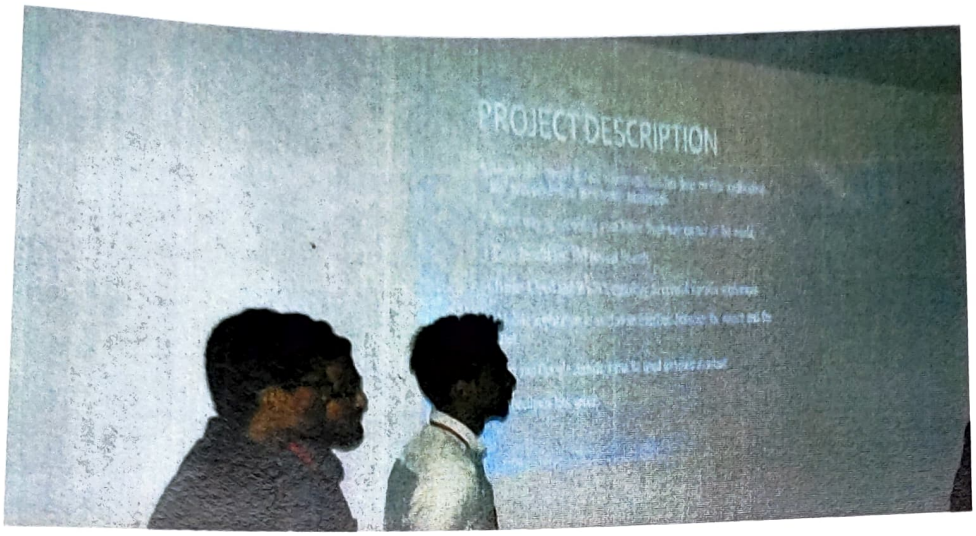
CHENNAI-600 024



PROJECT PRESENTATION IN PRANAV 2K18 IN MAIN BLOCK

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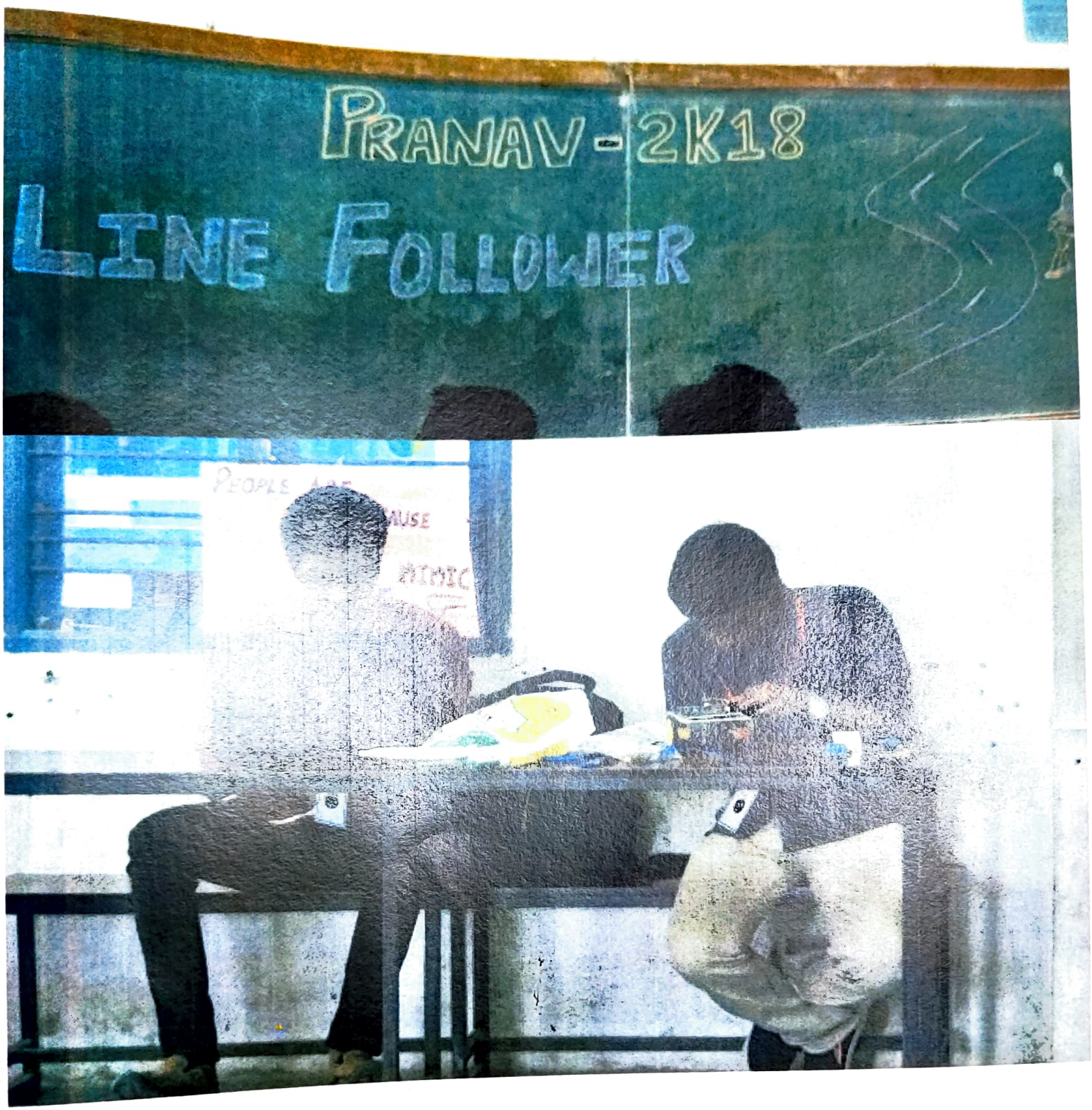

VARIOUS EVENTS

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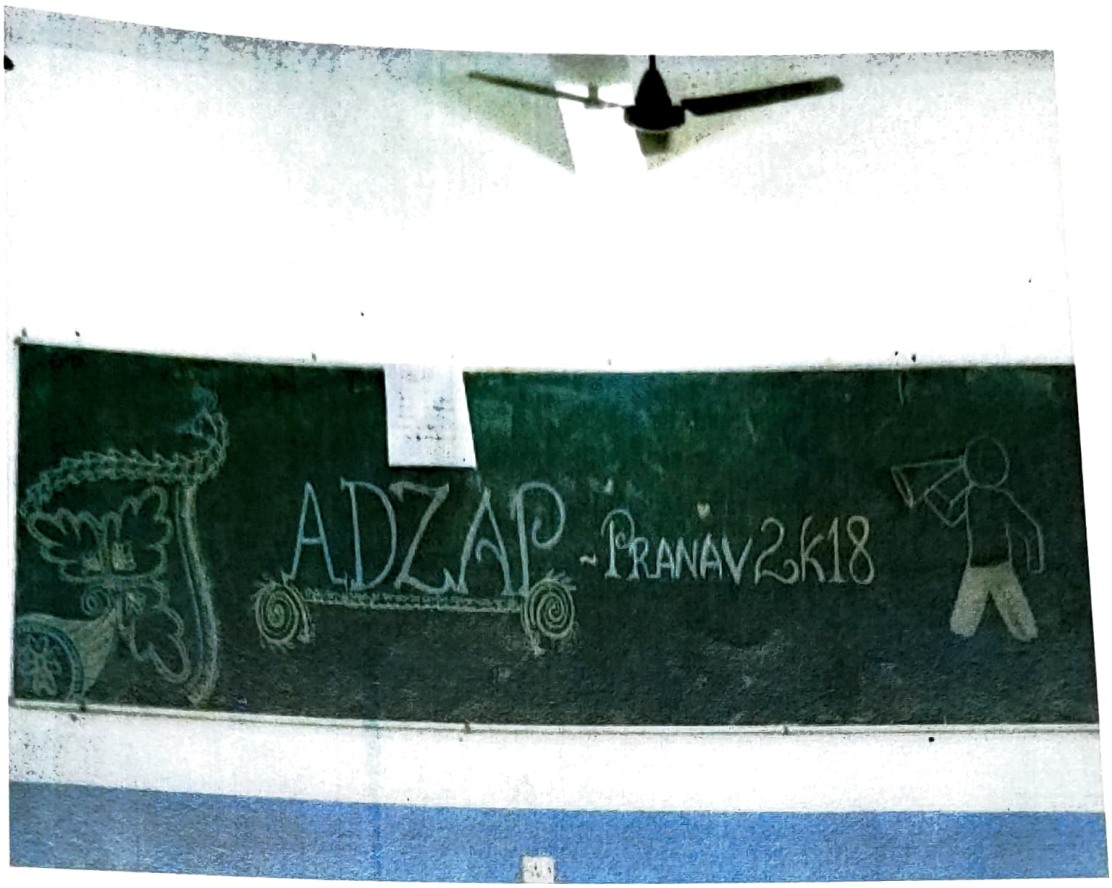

VARIOUS EVENTS

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VARIOUS EVENTS

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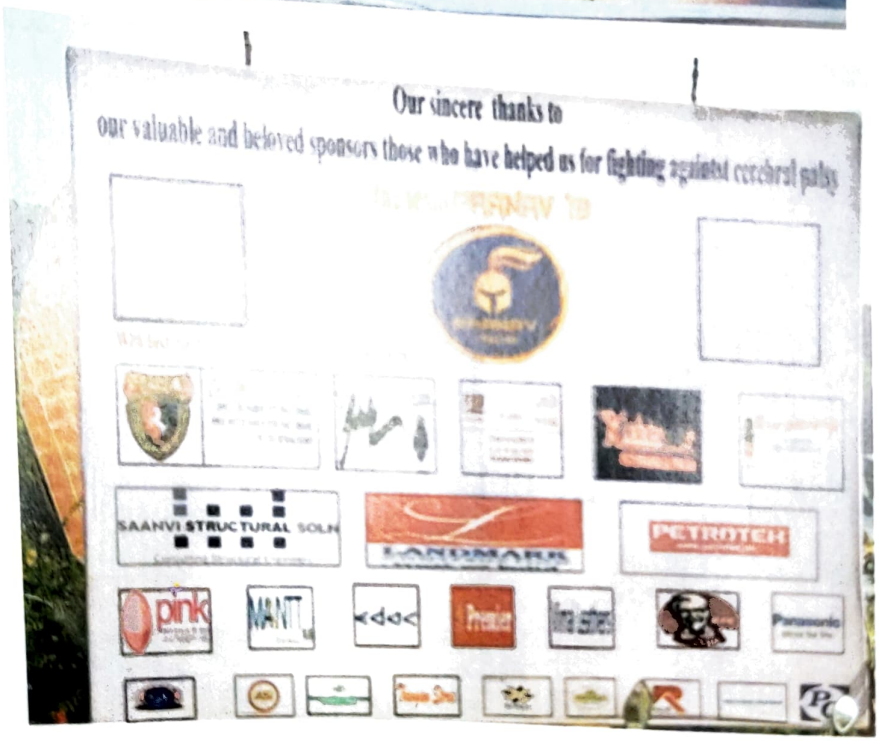
CHENNAI-600 024



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CHENNAI-600 024

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- INVOCATION
- LIGHTING OF KUTHU VILAKKU
- FLORAL TRIBUTE TO THE FOUNDER
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ARMOUR FOR THE COMBAT..

CHIEF GUEST

MR.N.RAMASETHU

VICE PRESIDENT AND HEAD
WATER INTERNATIONAL

ON

8TH SEPTEMBER 2018 AT

MEENAKSHI SUNDARARAJAN

IT 12-09

ASTHRA THEME:

BUG BUSTERS
PAPER PRESENTATION
MIND OVER SPLATTER
SHERLOCK HOLMES
INNO-LOG
MISSION IMPOSSIBLE
CONNECTION FREAKZ
FUN CITY
ONE CLICK PHOTOGRAPHY

WWW.ASTHRA2K18.COM

CSE 14-09

KRANTI THEME:

PAPER - O - VANZA
HUNT THE CODE
CALBUG
EX-QUIZ-ME
BRAILLE BONKERS
WHEEL OF FORTUNE
BETA TESTING
ALCATRAZ
WORKSHOP
GAMING

WWW.KRANTI2K18.IN

MECH 15-09

YANTRA THEME:

PAPER PRESENTATION
CAD
TECH QUIZ
RC RACING
HYDRO ROCKETRY
PLAY WITH TOOLS
WORKSHOP

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EPSILON 14-09

THEME:

PAPER PRESENTATION
PROJECT PRESENTATION
CIRCUIT DEBUGGING
CONNECTIONS
MIMESIS
LINE FOLLOWER
CRACK IT !
WORKSHOP
TECHNICAL QUIZ
ROBO SOCCER
E- GAMING

WWW.EPSILON2K18.COM

CIVIL 14-09

WAFES THEME:

GEOMATICS
FIESTA
CANTRACT
PAPER PRESENTATION
TOWER CRANE
DESIGN DRAFTING
DYNAMICITY

WWW.WAFES2K18.COM

ECE 15-09

PRANAV THEME:

PAPER PRESENTATION
PROJECT PRESENTATION
CIRCUITRIX
BREAK THE CODE
THE LINE FOLLOWER
TECH CONNEXIONS
TECH HUNT
MEGA EVENT
EDIFY
MATHOMANIA
TECH BATE

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MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE

DEPARTMENT OF INFORMATION TECHNOLOGY

ASTHRA'18 **DATE:11-8-18**

COORDINATORS: Harini Venugopal
T.M.Janani
S.Nasreen
K.Selvabharathy
M.Sriram

TREASURERS: S.Priyadharshini
V.Madhurya

EVENT LIST:

SL.NO	EVENT NAME	STUDENT COORDINATOR	STAFF COORDINATOR	SIGN
1	Mind over splatter	S.Pavithra	M.Sarala	
2	Presentation de papier	M.Rajashyamala	S.Priskilla Manomani	
3	Sherlock holmes	V.Gayathri	J.Priya	
4	Bug busters	S.Sathyavratha	B.Mahalakshmi	
5	Inno-log	M.Gayathri	N.Mathangi	
6	Funcity	K.Pavithra	G.S.Devilakshmi	
7	Connection freakz	A.Nandhinee	R.Gayathri	
8	Mission impossible	H.Janani	A.Shaji	
9	Gaming	J.G.Ashwin kumaar	K.Akila	
10	Meme Master	M.Gunasekaran	A.Shaji	
11	One click photography	C.Carthikeyan		
12	News letter	M.Sriram	N.Mathangi	
13	Magazine	K.Selvabharathy		
14	Food committee		K.P.Sriram	
15	Decoration		A.Shaji	

STAFF COORDINATORS:

K.P.Sriram

G.S.Devi Lakshmi

(HOD SIGNATURE)

MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE
DEPARTMENT OF INFORMATION TECHNOLOGY

ASTHRA'18 **DATE:28-8-18**

EVENT LIST:

SL no	EVENT NAME	ROOM	FLOOR	STUDENT COORDINATOR	STAFF COORDINATOR	STAFF SIGN
1	Mind over splatter	Lab-7	III floor	S.Pavithra	M.Sarala	M.Sarala
2	Presentation de papier	Lab-8	3rd Floor	M.Rajashyamala	S.Priskilla Manomani	
3	Sherlock holmes	III IT II ECE	3rd Floor	V.Gayathri	J.Priya	
4	Bug busters	Lab-1,2&3	III	S.Sathyavratha	B.Mahalakshmi	
5	Inno-log	Lab-4,5,6	III	M.Gayathri	N.Mathangi	
6	Funcity	III-ECECR	III	K.Pavithra	G.S.Devilakshmi	
7	Connection freakz	IV IT	III	A.Nandhinee	R.Gayathri	
8	Mission impossible	II IT	IV	H.Janani	A.Shaji	
9	Gaming	Seminar hall	III	J.G.Ashwin kumaar	K.Akila	
10	Meme Master	—	—	M.Gunasekaran	A.Shaji	
11	One click photography	—	—	C.Carthikeyan		
12	News letter	—	—	M.Sriram	N.Mathangi	
13	Magazine	—	—	K.Selvabharathy		
14	Food committee				K.P.Sriram	
15	Decoration	—	—		A.Shaji	

STAFF COORDINATORS:

K.P.Sriram

G.S.Devi Lakshmi

(HOD SIGNATURE)

DMI NOTE 9 PRO MAX
QUAD CAMERA

MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE

DEPARTMENT OF INFORMATION TECHNOLOGY

14th ANNUAL NATIONAL TECHNICAL SYMPOSIUM

TECH DIMENSIONS

TECHNICAL EVENTS

- BUG BUSTERS (CODING & DEBUGGING)
- PRESENTATION DE PAPIER (PAPER PRESENTATION)
- MIND OVER SPLATTER (TECHNICAL QUIZ)
- SHERLOCK HOLMES (HACKATHON)
- INNO-LOG (ALGORITHM FRAMING)

NON-TECHNICAL EVENTS

- MISSION IMPOSSIBLE
- CONNECTION FREAKZ
- GAMING
- FUNCITY

ONLINE EVENT

- ONE CLICK PHOTOGRAPHY

ASTHRA 2K18

12th SEPTEMBER

STAFF CO-ORDINATORS

MR.SRIRAM K.P
MRS.DEVILAKSHMI G.S

STUDENT CO-ORDINATORS

SELVABHARATHY.K 8778199278
SRIRAM.M 7904663575
HARINI VENUGOPAL
JANANI.T.M
NASREEN.S

SCAN US

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THEME
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"IMAGINATION AT WORK"

MEENAKSHI SUNDARARAJAN
ENGINEERING COLLEGE

DEPARTMENT OF
INFORMATION TECHNOLOGY

ASTHRA 2K18

MIND OVER SPLATTER


Asthra is a national level technical symposium held annually in our college. It is wholly organised and co-ordinated by our very own students, and supported by the management of Information Technology branch. Asthra is a stepping stone for students to showcase their talent.
TECHNICAL EVENTS
PRESENTATION DE PAPIER
SHERLOCK HOLMES
BUG BUSTERS
MIND OVER SPLATTER
INNO-LOG
NON-TECHNICAL EVENTS
FUNCITY
CONNECTION FREAKZ
MISSION IMPOSSIBLE
GAMING
We cordially invite you to attend our National level Technical Symposium

MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE
INFORMATION TECHNOLOGY
ASTHRA2K18

MIND OVER SPLATTER

EVENT DESCRIPTION:

Are you good in technical skills? Can you answer technological questions? If yes, mind over splatter is right for you. Mind over splatter is a technical quiz that will test your technical and thinking ability. Be prepared to face questions from every nook and corner of Information Technology.

STAFF COORDINATER:

- Mrs.Sarala.M

EVENT MEMBERS:

IIIRD YEAR:

- Pavithra.S (Event coordinator)
- Sharmila.S
- Dharani.B

IIND YEAR:

- Dharani Priya.R
- Kaviya.M
- Monica.N

GENERAL RULES:

- A team shall consist of maximum of two students.
- Participants shall not be allowed to use mobile or other gadgets.
- Replacement of any participant of a team is not allowed after registration
- Team members must have their college ID cards.
- Any malpractice leads to direct disqualification.

ROUND 1: QUALIFIER ROUND

- Qualifier round will contain 20 MCQ questions.
- Based on the time and mark the top ten teams will be selected for the final round.
- The selected teams shall have to appear for the final round for which the time will be informed during the qualifying round.

ROUND 2: FINAL ROUND

- The Final round will contain maximum 10 questions.
- Winners will be selected based on the time and the maximum number of questions attempted.
- Top 3 teams will be selected as winners.

VENUE:

- Lab-7

PRIZES:

- FIRST - ₹ 1500/-
- SECOND - ₹ 1000/-
- THIRD - ₹ 500/-

CERITIFICATE WRITING:

- Pavithra.S
- Sharmila.S

M. Saral

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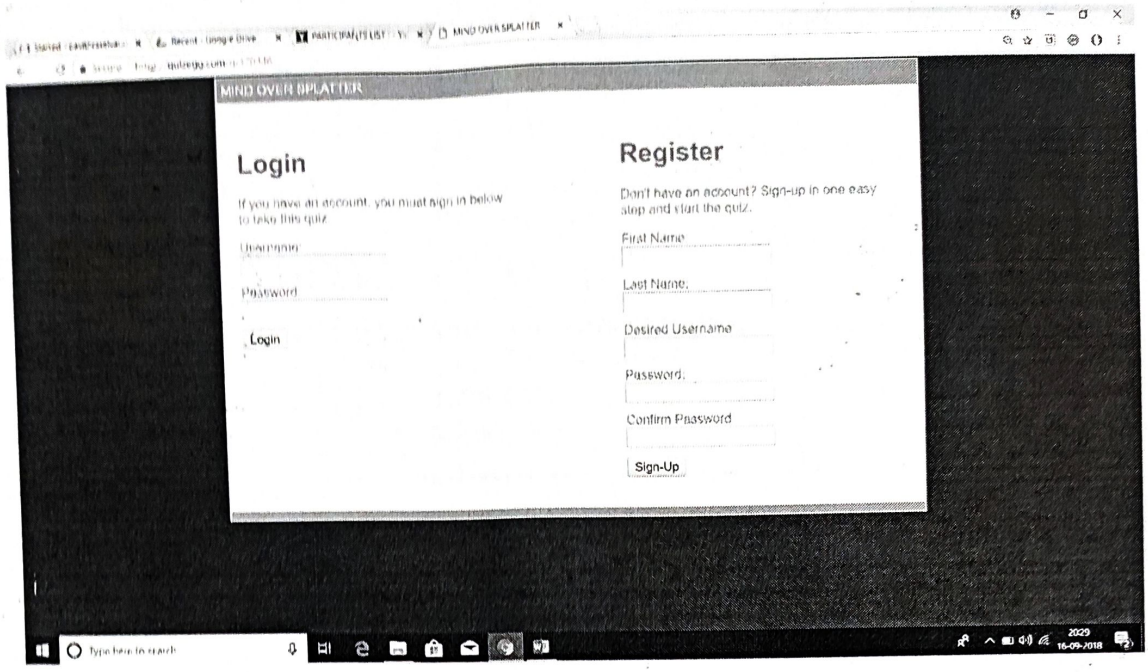
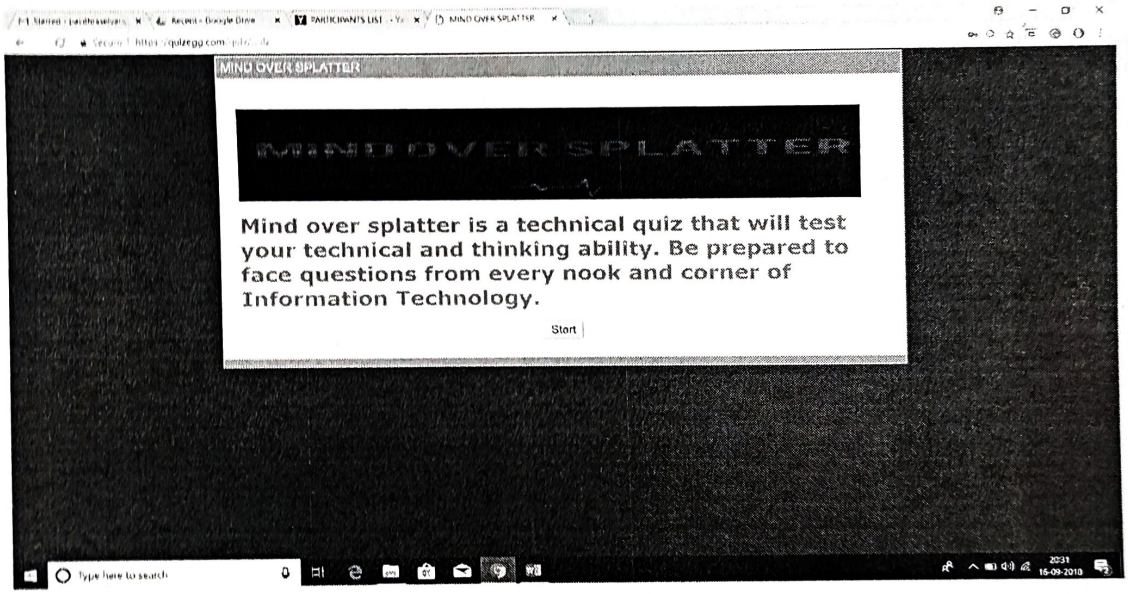
LINK TO PLAY ROUND 1:

http://quizegg.com/q/170446

M. Saral





ROUND 2: FINAL ROUND

- The Final round will contain 10 questions.
- Each question is in a password protected word document.The answer of the question in one document will be the password for the next document.
- Winners will be selected based on the time and the maximum number of questions attempted.
- Top 3 teams will be selected as winners.

VENUE: Lab-7

PARTICIPANTS LIST :

MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE
INFORMATION TECHNOLOGY
ASTHIRA2K18
MIND OVER SPLATTER

SNO	PARTICIPANT NAME	COLLEGE NAME	PHONE NUMBER	User Name
1. 2.	Anuradha Aishwarya	St. joseph College	9498456909	anuradha03
3. 4.	Sri Akshya Jashwanthi	WCC	7299680570	bscit38
5. 6.	Arun Daniel K Balaji J	Sri Venkateshwara Eng college	9087712810	Arun_Balaji
7. 8.	Leema Josephine S Edith Glory	WCC	9952923695	STONERS leemaedith
9. 10	Nanthini K Ramya B	Sai Ram Institute of technology Sai Ram Engineering college	7708072553	ramyanandhini
11.	Sanjana V	Sai Ram Institute of technology	9566043144	Sanjanavijay
7	D. Swetha M. Roopadevi	Panimalar Engg College	8220435102	Swetha123 Shore
8	C.X. Michel Akcia M. Vithya Sree	Panimalar Engg College	9500757915	Vithya Sree
9.	R. Sajitha priya S. Geetha lakshmi	Panimalar Engg college	7010260432	Seesaji
10	Shruthi S Aravind B	Agni College of technology	9962138751	ABSS
11	Rohit V Sathiya Narayanan S	Agni college of technology	9445832761	Zisei
12.	Sangeetha A Sangeetha I	Agni College of technology	7904104077	Sangeetha.65
13.	Venkatesh S. P. Lokesh	Jerusalem College of Engg	8678963415	Venki98
14.	Narayanan M.	Sai Ram institute of technology	9080342581	naral23...
15.	Pranav V Santhosh kumar	Sai Ram Engg College Sri lakshmi Ammal Engg college	9445831138	~~PranavSanthosh~~ Slim Shady
16	Akash R Surendhar P	Agurchand Manmull Jain college "	8248727486	AK1309-
17.	Shyam Sundar Tarun	Agni college of technology	7550174968	Dark_Phoenix
18	Sabari janath Kumarappan	Agni college of technology	7358282430	Sabari Janath
19	Hema	Sri Sai Ram Engg College	7904045344	hemahar98
20	Divya Veda priya	SaiRam Engg College	8939578065	veda.1306
21	Durgesh Aswin R Rajkumar S	St. Joseph's College of Engg "	8526852638	Raj37
22	Arjun M Keki	St. Joseph's College of Engg	9944788218	arjun1922

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MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE
INFORMATION TECHNOLOGY
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SNO	PARTICIPANT NAME	COLLEGE NAME.	PHONE NUMBER	User Name
23	K. Dhinesh Kumar Gokul. ~~M. Pradeep.~~	St. Joseph Engg College	7358513272	Gokul MV
I 24	Infant Sam christin	KCG College of technology	7397455888	~~for~~ SamChris
25	Dinesh Rajan	St. Joseph College of Engg	9600763245	DineshRajan
26	Gokila Kannan. Muthukumar	"	9442116342	muthu123456
27	Priyanka lalitha	MSEC		
28	Dilli Rao D Babuaravind	Rajal. REC. "	8870142198	Daredevils24
29	Raguram K.B. Gokul	MSEC "	6380332092	ragwaam
30	Archana K. Annapoorani	Saveetha Engg college.	9841322354	achuPoornaP
31	Abarna K Ayeesha A	Saveetha Engg College	8248660545	ayshuabu
32	Aswini V Shwetha	Saveetha Engg College MSEC.	7708385157	Sweas.
32	Ragaveena. Sandhya.	Saveetha Engg college		
33	S. Jerome Gopinath	St. Joseph College of Engg.	9940248270	robin123
34	Sai Valli Abirami	St. Joseph College of Engg	9840072970	abivalli.
35	yashini Saranya	MSEC	9940389144	Skylight
36	Yogavarshini Sindhuja	"	"	sindhuyogg9
III 37	Hariharan Sadaiyandi Muguntham P	St. joseph's College of Engg	7708141283	mimo._11
38	Monisha. S	MSEC	9952928810	
39	Subaidha begum Vishalakshi	MSEC	"	Subhuvisha
40	Balaji ~~kumar~~	St. Joseph institute of technology	8870022274	balajinagarajan2001
41	Visalakshi Lakshmipriya	"	"	Salalakshmi
42	Vijay M. Pravin as P	"	6382118412	21221620582
42	Balaji S. Gunashekar	Sai ram Engg College.	9003758908	

Author_king

P. Saral

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	SNO	PARTICIPANT NAME	COLLEGE NAME	PHONE NUMBER	username
	44	Vishal Melvin Xavier Saisaran	Sairam Engg college	8754923933	Vishalrex
	45	Ishwar Sivaram	Sairam Engg college	9176315716	Ishwarprasat
	46	Ashwin Chrisvin	St. joseph Engg College	9043513160	Source_Code
	47	Vishal Pradeep	MSEC	9925751856	Visdeep
II	48	Saai ram Abishek	CEG (username green.ghost)	8438536899	
	49	Gokul	CEG username gokul	7418767287	
	50	Sameera priyanka D	MSEC	9962078961	Sampri
	51	MUJAHIDUDEEN A.ABDULRASITH	THE NEW COLLEGE	7603060326	dark_knight
			Total Participants	95	

PRIZES WINNERS:

MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE
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WINNERS DETAILS

DATE: 12/9/18

PRIZE	NAME	COLLEGE NAME	PHONE NO	ACCOUNT NO	ADHAAR NO	IFSC CODE	PAN NO	UPI ID
I	INFANT SAM CHRISTIAN	KCG College of Technology	7397455888	0717309000000040	739601265459	LAVB0000717		7397455888@upi
II	SAAIRAM.V ABISHEK.S	CEG	8439536899	520101005827356	[illegible]	CORP0000767		
III	Mugunthan. P Hariharan Sadayandi.M	St. Joseph's college of Engineering	7708141283					

M. Saral

FIRST PRIZE : ₹ 1500 /-

SECOND PRIZE : ₹ 1000/-

THIRD PRIZE : Zebronics Headphones

EVENT PHOTOGRAPHS: