Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi)

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ಸೋಮವಾರ, 5 ಆಗಸ್ಟ್ 2019

Students create digital clock with LED hands

TIMES NEWS NETWORK

CHANGING CHIMES: The clock display creates the impression of needles using LED strings

Bengaluru: One glance at this clock will tell you that times have changed! Students and faculty of Sapthagiri College of Engineering have developed an accurate digital clock that gathers time from GPS signals and displays it like a traditional analog clock.

The three-foot-tall clock receives GPS signals from three satellites using a compact antenna and extracts the time value as GMT. It is then converted to IST by adding the lead time value and the time is shown through three hands of the clock.

However, the clock has no moving hands or parts and the impression of movement of hands is created by switching light emitting diode (LED) strings. The clock thus has 1,400 different points to make connections, 2,000 soldering points, 100 Darlington pair transistors, 80 strips of LED and one micro-controller board. "The challenge was to make these LED strips and the connections. One wrong connection could spoil the whole clock," said Nandini S, a student.

The clock needs unin rupted power supply that come through the solar pa attached to it. "The advan is that it needs no maintena as it doesn't have moving p and batteries. LED has a li 10-20 years. Also, the time set needn't be reset again, a is accurate. The clock can p useful at railway or bus stat or places like a clock tower re everyday maintenance i ficult," said Dinesh K Anv faculty at the college.

The clock cost Rs 10,0 make, but it can come dow Rs 4,000 for a one-foot-tall sion. The team of students developed it are: Nandi Anusha SV, Bhumika KS, I ashree RA, Divij N and Div under the guidance of Di K, Prakash Jadhav and S eshkumar HC.

ಸೋಮವಾರ, 5 ಆಗಸ್ಟ್ 2019

ಉಪಗ್ರಹ ಜಿಪಿಎಸ್ ಆಧಾರಿತ ಡಿಜಿಟಲ್ ಗಡಿಯಾರದೊಂದಿಗೆ ವಿದ್ಯಾರ್ಥಿಗಳು ಮತ್ತು ಬೋಧಕ ಸಿಬ್ಬಂದಿ

ಜಿಪಿಎಸ್ ಆಧಾರಿತ ಡಿಜಿಟಲ್ ಗಡಿಯಾರ

ಜಿಪಿಎಸ್ ಸಂಕೇತಗಳನ್ನು ಆಧರಿಸಿದ ಡಿಜಿಟಲ್ ಗಡಿಯಾರವನ್ನು ಸಪ್ತಗಿರಿ ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ವಿದ್ಯಾರ್ಥಿಗಳು ಮತ್ತು ಬೋಧಕ ವರ್ಗ ಅಭಿವೃದ್ಧಿಪಡಿಸಿದೆ.

ಈ ಗಡಿಯಾರದ ವೈಶಿಷ್ಟ್ಯ ಎಂದರೆ ಉಪಗ್ರಹದ ಜಿಪಿಎಸ್ ಮೂಲಕ ಸಮಯದ ಸಂಕೇತ ಪಡೆಯಲಿದೆ. ಡಿಜಿಟಲ್ ತಾಂತ್ರಿಕ ವ್ಯವಸ್ಥೆ ... ಸಿದ್ಧಪಡಿಸಲಾಗಿದ್ದು, ನಿಖರ ಸಮಯ ತೋರಿಸುತ್ತದೆ.

[illegible]

Principal
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Sapthagiri College of Engineering faculty and students develop digital clock based on GPS signals

Published on Fri, Aug 2 2019 17 30 IST | 320 Views

Bengaluru: Students and faculty of the Sapthagiri College of Engineering show a digital clock based on GPS signals developed by them that displays time like traditional clocks, at a press conference in Bengaluru on Aug 2, 2019.

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THE NEW INDIAN EXPRESS

Bengaluru students invent device to ease ambulances through heavy traffic

Students have created a light sensor of sorts that will detect the light pulse sequence of the ambulance. With this, traffic police can manually operate signals and let ambulances pass.

Published: 27th June 2019 06:42 AM | Last Updated: 27th June 2019 12:44 PM | A+ A A-

Students from Saptagiri College of Engineering presenting a censor-based traffic signal in Bengaluru on Wednesday | SHRIRAM B N

By Express News Service

BENGALURU: To tackle one of the recurring problems in the city - heavy traffic disrupting emergency health services - a group of students have come together to find a solution. They are now patenting their 'Traffic Control System', which will be an innovative solution for traffic police who struggle to make way for ambulances stuck behind rows of vehicles at signals.

Students of Saptagiri College of Engineering, under the guidance of their professors Dr Dinesh K Anvekar and Dr Sasmita Mohapatra, created a light sensor of sorts that will detect the light pulse sequence of the ambulance. With this, traffic police can manually operate signals and let ambulances pass.

The team of students includes fourth-semester Electronics and Communication Engineering students Nitin B S, B K Harshit, Prathika V M and Dhanush Bharadwaj H P.

"The electronics and communication functions of the system are implemented by two micro-controller boards in the traffic light unit and one micro-controller within the torch," said the students. The traffic lights control system consists of a light code sequence detector mounted above the red traffic light, and a light pulse sequence emitting torch. The light pulse sequence is detected by a light sensor interfaced to a micro-controller. The torch has a micro-controller that produces a pre-determined sequence of light pulses," the group said.

Since the light sensor is placed against a 'conspicuous black-yellow pattern' board, it will aid the ambulance driver in heavy traffic. "The light code sequence detector recognises light sequences and signals the traffic light control circuit to switch immediately to green and allow the ambulance to pass," they added. The invention has been filed for patent issue by the Indian Patents Office, they added.

TAGS **Traffic control system** **Saptagiri Engineering College students** **city ambulance service** **ambulance servie in Bengaluru** **traffic police**

ThinkEdu 2020

TNIE

Modi keeps his critics far away and that's not helping him: Swamy

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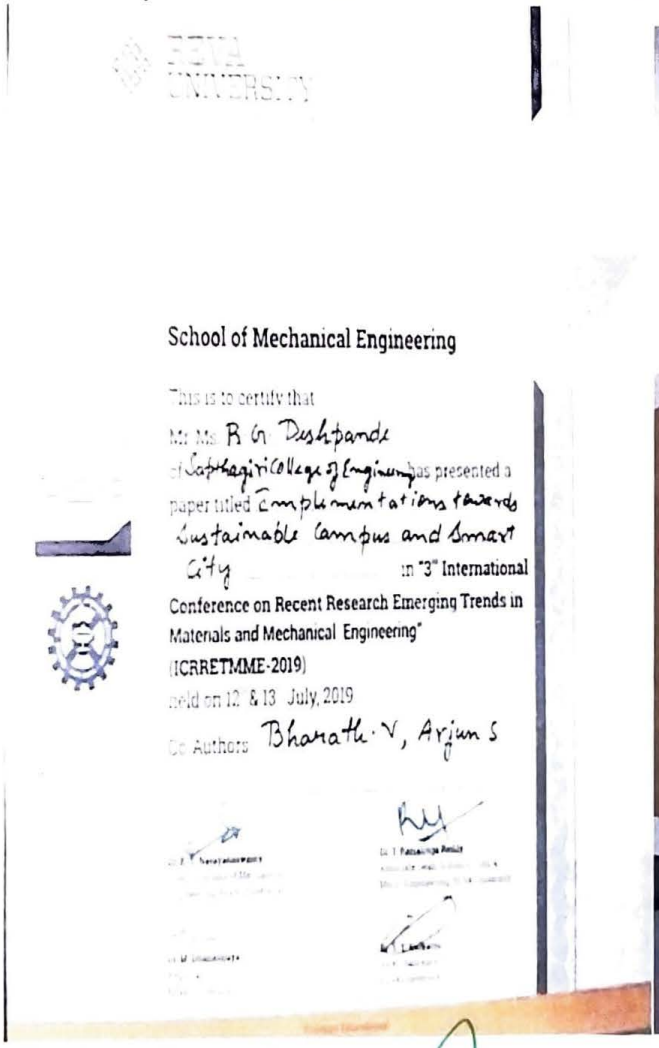
DEPARTMENT OF MECHANICAL ENGINEERING

2018-19 EVEN SEM

Final year students presented a paper along with Dr.R.G.Deshpande at Reva University conference ICRRETMME-2019 held on 12-13th July 2019.
Student names: Bharath.V, Arjun.S.
Title: *Implementations towards sustainable campus and smart city.*



School of Mechanical Engineering

This is to certify that
Mr/Ms R G Deshpande
of Sapthagiri College of Engineering has presented a paper titled Implementations towards Sustainable Campus and Smart City in "3" International Conference on Recent Research Emerging Trends in Materials and Mechanical Engineering" (ICRRETMME-2019) held on 12 & 13 July, 2019
Co Authors Bharath. V, Arjun S

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DEPARTMENT OF MECHANICAL ENGINEERING

Project Exhibition
2018-19 Even sem

Date: 07June 2019




Principal
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THE NEW INDIAN EXPRESS

Tuesday, January 14, 2020 01:20:48 AM

Bengaluru students innovate search-n-rescue robot, smart stick for visually challenged

The Hexapod has unlimited range and is controlled using an internet-connected mobile device from any part of the world.

Published: 03rd July 2018 05:14 AM | Last Updated: 08th July 2018 11:00 AM | A+ A A-

Students of Sapthagiri College of Engineering who designed the six-legged robot, interact with the media on Monday | Pandarinath B

By Express News Service

BENGALURU: The students of Sapthagiri College of Engineering have developed a Hexapod (six-legged robot), a spider-shaped robot — which can be used in search and rescue operations — and also as a Blindman's Smart Stick for easy navigation for the blind.

The Hexapod has unlimited range and is controlled using an internet-connected mobile device from any part of the world. In addition to this, it has live streaming feature, 360-degree movable camera, and temperature sensors to obtain temperature and humidity readings. Anudeep Medisetti, one of the inventors of the pod, said, "It can move in all directions at two different speeds.

It also has a mike for communication during rescue operations or in calamities. It can avoid obstacles on its own with the help of Arduino sensor.

The Hexapod can also be used in nuclear power plants for obtaining live temperature readings and for military spying.

The cost of the prototype version is ` 25,000, but can be reduced, once produced on a large scale.

"The robot is inspired from the movement of insects and can be used in mining industries", said Ravishankar. The device was designed by Aravind Valsalan, Harsha M N, Anudeep Medisetti and Deepak Kumar of Sapthagiri College of Engineering.

D500 aid to detect obstacles

Aiming to help the visually challenged gain independence, the students also developed an aid that costs only ` 500, and which can detect obstacles and water to help the user safely navigate roads. The device is integrated with ultrasonic sensors along with water-sensing feature and the ultrasonic transceiver modules help in detecting obstacles in the front, above and below knee-level of the person, using ultrasonic waves. A special feature in this stick is that the sounds produced by the stick are different for obstacles and water detection. Also, radio frequency remotes help in locating the device, if it gets lost. Pavan Kumar H D, one of the four student inventors said, "Every time the person uses the remote, the sound will be emitted which can be easily heard by visually challenged people since they have a unique ability to follow sounds." The student designers Pallavi S, Pavan Kumar H D, Poorva H and Shilpa H S were thinking of upgrading the prototype since it focused only on static obstacles by infusing dynamic changes which will help the visually challenged to navigate through heavy crowds.

TAGS **Sapthagiri College of Engineering** **robot**

17-18

BENGALURU

Industrial waste contamination plagues groundwater in Peenya

STAFF REPORTER

BENGALURU, SEPTEMBER 04, 2018 08:17 IST
UPDATED: SEPTEMBER 04, 2018 15:39 IST

Shivapura-Nalakadarenahalli lake is so polluted with chemical effluents and sewage that the water has been deemed unfit for even industrial use. | Photo Credit: Sudhakara Jain

Of the samples tested, 40% were acidic while almost all were above permissible limits for hardness

17-18

CITY

Schools & Colleges (https://timesofindia.indiatimes.com/city/bangalore?cfmid=5000000) Civic Issues (https://timesofindia.indiatimes.com/city/bangalore?cfmid=14000000) Crime

NEWS (HTTPS://TIMESOFINDIA.INDIATIMES.COM) / CITY NEWS (HTTPS://TIMESOFINDIA.INDIATIMES.COM/CITY) / BENGALURU NEWS (HTTPS://TIMESOFINDIA.INDIATIMES.COM/CITY/BANGALORE) / STUDENTS TURN OLD SCOOTER INTO E-VEHICLE

THIS STORY IS FROM JULY 11, 2018

Students turn old scooter into e-vehicle

TNN | Jul 11, 2018, 08:11 IST

INNOVATION OUT OF SCRAP

BENGALURU: Ever come across vintage two-stroke Yamaha RX100 and RX135 bikes or Bajaj Chetak scooters running on battery? Well, final-year mechanical engineering students of Sapthagiri College of Engineering have created an e-scooter out of an old Bajaj Chetak rusting in the corner of a garage in Shivajinagar.

The undergraduate students bought the scooter for Rs 500 after bargaining with a scrap dealer and then dismantled it. They replaced the engine with battery discharge and DC motor. "The DC controller helped in controlling the headlights, indicator and the horn," said Hemant Kumar, one of the students.

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The team worked on the project day and night for two months to reconstruct the bike. "It is a proud moment for the college as these students achieved the feat at a budget of Rs 12,000," said KL Shivabasappa, principal, Sapthagiri College of Engineering.

Worried by the spiralling prices of motor fuel, the students wanted to come up with a vehicle that will reduce fuel consumption. "The e-scooter needs to be charged 3-4 hours and consumes 3.5 units of electricity before it can hit the road. The vehicle is equipped with a socket on its left and can be easily charged with an AC adapter," said Prashant, professor of bio-technology, Sapthagiri College of Engineering.

TOP COMMENT

Great job.

Raja Paul

SEE ALL COMMENTS ADD COMMENT

The college is thinking of approaching Bajaj to see if their prototype could be produced commercially.

Cheap plough machine to help farmers

Students of Sapthagiri College of Engineering have also created a ploughing machine that can be operated manually. The machine has a 25 litre storage drum to keep seeds and fertilisers. As the plough rotates, seeds ... in the market, said M Manikanta, a student.

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17-18

● ಜುಲೈ 6, 2018

ಚಾಲಕನಿಲ್ಲದೇ ಓಡುವ ಕಾರು!

ವಿದ್ಯಾರ್ಥಿಗಳು ಆವಿಷ್ಕರಿಸಿರುವ ಚಾಲಕ ರಹಿತ ಜಿಪಿಎಸ್ ಆಧಾರಿತ ಕಾರು

ಸಪ್ತಗಿರಿ ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ವಿದ್ಯಾರ್ಥಿಗಳ ಸಾಧನೆ

ವಿಜಯ ಕರ್ನಾಟಕ

● ಜುಲೈ 6, 2018

ಚಾಲಕರಹಿತ ಕಾರು ಆವಿಷ್ಕಾರ

ಸಪ್ತಗಿರಿ ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ವಿದ್ಯಾರ್ಥಿಗಳು ಆವಿಷ್ಕರಿಸಿದ ಚಾಲಕರಹಿತ ರೋಬೊ ಕಾರು.

ಬೆಂಗಳೂರು: ನಗರದ ಸಪ್ತಗಿರಿ ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ವಿದ್ಯಾರ್ಥಿಗಳು ಚಾಲಕರಹಿತ ರೋಬೊ ಕಾರು ಹಾಗೂ ಮೌಖಿಕವಾಗಿ ಹೇಳಿದ್ದನ್ನು ಟೈಪ್ ಮಾಡಿಕೊಳ್ಳುವ ಕಂಪ್ಯೂಟರ್ ಆವಿಷ್ಕರಿಸಿದ್ದಾರೆ.

ಸುದ್ದಿಗೋಷ್ಠಿಯಲ್ಲಿ ಕಾಲೇಜಿನ ಪ್ರಾಂಶುಪಾಲ ಡಾ.ಕೆ.ಎಲ್.ಶಿವಬಸಪ್ಪ ಮಾತನಾಡಿ, ವಿದ್ಯಾರ್ಥಿಗಳ ಸಾಧನೆ ಬಗ್ಗೆ ಮೆಚ್ಚುಗೆ ವ್ಯಕ್ತಪಡಿಸಿದರು. ನಾಲ್ಕನೇ ಸೆಮಿಸ್ಟರ್ ವಿದ್ಯಾರ್ಥಿ ಶಿವಶೇಸ್ ಬೋರಾ, ರೋಬೊ ಕಾರನ್ನು ಅಭಿವೃದ್ಧಿಪಡಿಸಿದ್ದು, ಜಿಪಿಎಸ್ ಆಧಾರಿತವಾಗಿ ಕಾರ್ಯನಿರ್ವಹಿಸಲಿದೆ. ಇದರಲ್ಲಿ ಸಂಚಾರ ನಿಯಮಗಳ ಮಾಹಿತಿ ದಾಖಲಿಸಲಾಗಿದ್ದು, ...ದೇ ಪ್ರತ್ಯೇಕವಾದ ಸಣ್ಣ ಯಂತ್ರವನ್ನು ...ಸಲಾಗಿದೆ ಎಂದು ತಿಳಿಸಿದರು.

ವಿದೇಶದಲ್ಲಿ ಇಂತಹ ತಂತ್ರಜ್ಞಾನ ಈಗಾಗಲೇ ಬಳಕೆಯಲ್ಲಿದೆ. ಹೀಗಾಗಿ, ನಮ್ಮಲ್ಲಿಯೂ ನೂತನ ತಂತ್ರಜ್ಞಾನವನ್ನು ಪರಿಚಯಿಸುವ ಉದ್ದೇಶದಿಂದ ವಿದ್ಯಾರ್ಥಿ ಈ ಪ್ರಯತ್ನ ಕೈಗೊಂಡಿದ್ದಾರೆ ಎಂದರು.

ವಿದ್ಯಾರ್ಥಿಗಳಾದ ರಿಷಿಕಾ ಎ.ಭಾರದ್ವಾಜ್, ತೇಜಸ್ ರಾವ್, ಪ್ರಜ್ವಲ್ ರೆಡ್ಡಿ ಮತ್ತು ಸಾಗರ್ ಅವರು ಮೌಖಿಕವಾಗಿ ಹೇಳಿದ್ದನ್ನು ಟೈಪ್ ಮಾಡಿಕೊಳ್ಳುವ ಕಂಪ್ಯೂಟರ್ ಅಭಿವೃದ್ಧಿಪಡಿಸಿದ್ದಾರೆ. ಇದು ವಿಕಲಚೇತನರಿಗೆ ಅನುಕೂಲವಾಗುವ ವಿಶ್ವಾಸವಿದೆ. ಕಂಪ್ಯೂಟರ್ ಮುಂದೆ ಕುಳಿತು ... ಮಾಡಿದರೆ ಅಥವಾ ಆಡುವ ಮಾತುಗಳನ್ನು ... ತನ್ನಷ್ಟಕ್ಕೆ ಟೈಪ್ ಮಾಡಿಕೊಳ್ಳುತ್ತದೆ ... ಹೇಳಿದರು.

ವಿಜಯ ಕರ್ನಾಟಕ

● ಜುಲೈ 6, 2018

2018 ನಗರ ಹೊರ...

ಬಜಾಜ್ ಚೇತಕ್‌ಗೆ ಎಲೆಕ್ಟ್ರಾನಿಕ್ ಸ್ಕೂಟರ್ ರೂಪ

...ts turn old e-vehicle

3-4 hours and consumes 3.5 units of electricity before it can hit the road. The vehicle is equipped with a socket on its left and can be easily charged with an AC adapter," said Prashant, professor of bio-technology, Sapthagiri College of Engineering.

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Cheap plough machine to help farmers

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As the plough rotates, seeds and fertilisers fall to the ground. It could be a cheaper option for farmers compared to other ploughing machines in the market, said M Manikanta, a student.

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17-18

Invention

Published: 03rd August 2018

Hey Tesla, this 19-year-old just used a 8MP camera to build a self-driving car. Go figure

Developed by a Bengaluru student, the system inside this self-driving car uses a cheaper camera option compared to LiDAR and GPS

Rashmi Patil
Edex Live

Shivashish Borah, a third-year Engineering student from Sapthagiri College of Engineering and Technology has invented the self-driving car

Technology is getting smarter every day. While Alexa, Siri, and Google Assistant tend to listen and respond, this prototype of a self-driving car that can not only drive but also follow traffic rules like stopping for the red signal — and it was built by an Engineering student in Karnataka. Shivashish Borah, a third-year engineering student from Sapthagiri College of Engineering and Technology has invented the self-driving car and goes on to explain on how different it is from the ones that are being prototyped and developed in countries like the USA. Singapore, China, England.

He said, "My invention is not a new one but it is different from the one which is invented in other countries. Lidar and Global Positioning System (GPS) is the technology used in other countries which will cost close to 5 to 6 lakh. To make it more affordable for the automobile industry, I have instead installed an 8-megapixel camera in the car to make it recognise traffic and symbols."

Earlier, he has worked on a project called Twitter analysis. Deep Learning software was used to identify if the people's tweets were positive, negative or neutral. His motto is to make technology more affordable so that everyone can use it

When asked how his self-driving car works without GPS system and only an 8-megapixel camera, he said, "The camera installed in this can do wonders as it captures images as it travels. It saves in on a memory card. For now, I have installed a 32 GB memory card in the car. Then after collecting a sufficient amount of images, the software makes a rough estimate of the path using visual odometry technology and tries to predict the position of the car in that path." The number of times it travels along the same path, the more the onboard AI learns and remembers what actions have to be performed.

He further goes on to explain that the car is more like a human brain that has learned to identify colors like red, green, orange and a zebra crossing as well. "Whenever there's a red signal, the car stops. As it turns green, the car moves ahead. Similarly, the car has learned to turn left or right or take a U-turn on a particular path." Apart from this, the car stops and guides itself through a new path whenever it comes across an obstacle. "Depending on the size and shape, the car identifies the object as an obstacle and this is again based on the different pictures it captures," he added.

My aim is not just to score good marks in academics but also to make

16-17

Watch: Go kart designed by Bengaluru students wins award

27 Feb 2017, 08:21AM IST | Source:

The go kart designed by the students of Mechanical Engineering at Sapthagiri college of Engineering in Bengaluru won the award for most dynamically balanced kart at the Torq racing event.


Watch: Go kart designed by Bengaluru students wins award (/videos/news/watch-go-kart-designed-by-bengaluru-students-wins-award/videoshow/57379550.cms)


Michael Patra named RBI's deputy governor (/videos/news/michael-patra-named-rbis-deputy-governor/videoshow/73244217.cms)


Donald Trump planning India visit in February, says official (/videos/news/donald-trump-planning-india-visit-in-february-says-official/videoshow/73242156.cms)


Watch: Enemies Spiderman and Thanos move to the beat of a Punjabi song in funny video (/videos/news/watch-enemies-spiderman-and-thanos-move-to-the-beat-of-a-punjabi-song-in-funny-video/videoshow/73241375.cms)


MoS Defence Shripad Naik backs Army Chief General MM Naravane's statement on reclaiming PoK (/videos/news/mos-defence-shripad-naik-backs-army-chief-general-mm-naravanes-statement-on-reclaiming-pok/videoshow/73241293.cms)


Watch: 10-ft high glacier wall breaks off, slides (/videos/news/watch-10-ft-high-glacier-wall-breaks-off-slides-onto-highway-in-hpp-kinnaur/videoshow/73229731.cms)

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Mon, Feb 24, 2020 MUMBAI MIRROR | AHMEDABAD MIRROR | PUNE MIRROR

WATCH
Bengaluru woman Amulya raises 'Pakistan Zindabad' slogan, booked for sedition
LIVE NOW
Engineering students build their own go-kart

Bangalore Mirror Bureau | Updated: Feb 28, 2017, 04.00 IST

Engineering students from the city built a go-kart all by themselves to participate in competitions. In a recently concluded competition in Bhopal, the mechanical engineering students acquired fifth position along with a special award.

Two years ago, a group of 11 students from Sapthagiri College of Engineering decided to do something in the field of automobile engineering.

Just at the nick of time, one of the group members came across a competition in an online advertisement for which the team had decided to build a Go-Kart.

After participating in the Indian Go-karting league two years back, they had won the first prize in the race. This made them even more passionate about the kart and they started modifying it further to make it at par with the ones used at professional sports.

The team moved on with their lives till they heard about Elite Karting, a competition by the Elite Techno Group at Bhopal. They immediately decided to participate.

The team named themselves Torq Racing and went on to qualify the first round of virtual presentation of the vehicle in Bengaluru, where they had to present the design of the vehicle through software. 70 teams out of 170 qualified for the next round that was to be held in Bhopal inside the RPM racing circuit from February 16 to 18.

When the final day arrived, the vehicle was all set to take part in the race. It was the semi-final round where two winners will be selected from two groups for the final where the top four will compete. Unfortunately, they could not make it to the finals because they stood fourth in the race.

Just as they had lost all hope, they were given a special award of The Most Dynamically Balanced Kart and a cash prize of Rs 10,000. Their overall position in the competition was fifth. The team is planning on building a biodiesel engine for cars or solar cars in future.

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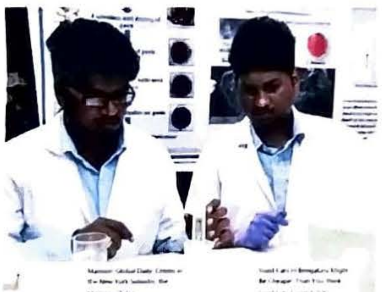

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BENGALURU

A 12-foot-long 'Prodigy'

STAFF REPORTER

BENGALURU, MAY 05, 2016 05:00:57 IST
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These students are passionate about motorbikes and their claim to fame is a 12-feet-long 'Prodigy'. Ten third-year mechanical engineering students of Bengaluru-based Sapthagiri College of Engineering, calling themselves 'Warlocks', designed this unique-looking motorbike. It took them a month to come up with the product.

Prodigy is approximately double the length of a regular motorbike. The students claim that the motorbike, with high torque and thrust, is suitable for high speed, provides more comfort and is ergonomically designed. "The single-seat bike is fitted with a Pulsar 220 DTSI engine and a 15 litre fuel tank. It weighs 365 kg. It can give a mileage of 18 to 20 km per litre," said Kaushik Raj, a team member, adding that Prodigy cost them Rs. 2.5 lakh. "We are planning redesign the bike so as to make it run on bio-fuel and solar energy. Our next attempt is to design a small bike weighing 150 kg," he added.

The students want to display their bike at national-level bike design contests, which are organised by various engineering colleges. The students said that they were guided by lecturers Prashanth Kumar H.P., Raghotham Rao, Venkate Gowda and Manjunath S.H. for their venture.

'We are planning

to redesign the

bike to make it run

on bio-fuel and solar energy'

SAPTHAGIRI COLLEGEOF ENGINEERING
Bangalore-50057

Project / Internship

ಕನ್ನಡಪ್ರಭ

ಆಸ್ಪತ್ರೆಯಲ್ಲೂ ರೋಬೋಟ್ ಸೇವೆ: ವಿದ್ಯಾರ್ಥಿಗಳ ಆವಿಷ್ಕಾರ

ಬೆಂಗಳೂರು: ಆಸ್ಪತ್ರೆಯಲ್ಲಿ ಸಿಬ್ಬಂದಿ ಕೊರತೆಯಿಂದ ಆಗುವ ಸಮಸ್ಯೆಗಳನ್ನು ತಪ್ಪಿಸಲು ಹಾಗೂ ರೋಗಿಗಳಿಗೆ ಗುಣಮಟ್ಟದ ಸೇವೆ ಒದಗಿಸುವ ನಿಟ್ಟಿನಲ್ಲಿ ಸಪ್ತಗಿರಿ ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ವಿದ್ಯಾರ್ಥಿಗಳು ವಿನೂತನವಾದ ಪ್ರಾಯೋಗಿಕ ರೋಬೋಟ್‌ಗಳನ್ನು ಆವಿಷ್ಕರಿಸಿದ್ದಾರೆ. ಶನಿವಾರ ಆಯೋಜಿಸಿದ್ದ ಸುದ್ದಿಗೋಷ್ಠಿಯಲ್ಲಿ ವಿದ್ಯಾರ್ಥಿಗಳು ತಾವು ಆವಿಷ್ಕರಿಸಿರುವ ರೋಬೋಟ್ ಮಾದರಿಗಳ ಪ್ರದರ್ಶನ ನೀಡಿದರು. ಈ ಬಗ್ಗೆ ಮಾಹಿತಿ ನೀಡಿದ ವಿದ್ಯಾರ್ಥಿನಿ ನಿಶಾ ಕೆ. ಮೆಹ್ತಾ, ರೋಬೋಟ್‌ಗಳು ರೋಗಿಗಳಿಗೆ ಸಮಯಕ್ಕೆ ಸರಿಯಾಗಿ ಔಷಧಿ ನೀಡಲು ನೆರವಾಗಲಿವೆ. ರೋಗಿಗಳಿಗೆ ವೈದ್ಯರು ಸೂಚಿಸಿರುವ ಔಷಧವನ್ನು ನಿಗದಿತ ಸಮಯಕ್ಕೆ ರೋಗಿಯ ಹಾಸಿಗೆ ಬಳಿಗೆ ಈ ರೋಬೋಟ್ ಕೊಂಡೊಯ್ಯಲಿವೆ. ಸಾಮಾನ್ಯವಾಗಿ ರೋಬೋಟ್‌ಗಳನ್ನು ರಿಮೋಟ್ ಮೂಲಕ ನಿಯಂತ್ರಿಸಲಾಗುತ್ತದೆ. ಇದರಲ್ಲಿ ಒಂದು ದೊಡ್ಡ ರೋಬೋಟ್ ಏಕಕಾಲಕ್ಕೆ 100ಕ್ಕೂ ಹೆಚ್ಚು ಇತರೆ ರೋಬೋಟ್‌ಗಳನ್ನು ನಿಯಂತ್ರಿಸುತ್ತದೆ ಎಂದು ತಿಳಿಸಿದರು. ಸದ್ಯಕ್ಕೆ ರೋಗಿಗಳ ಹಾಸಿಗೆವರೆಗೂ ತೆರಳುವಷ್ಟು ಹಂತಕ್ಕೆ ಮಾತ್ರ ರೋಬೋಟ್‌ಗಳನ್ನು ಸಿದ್ಧಪಡಿಸಲಾಗಿದೆ. ಮುಂದಿನ ದಿನಗಳಲ್ಲಿ ಈ ತಂತ್ರಜ್ಞಾನವನ್ನು ಇನ್ನಷ್ಟು ಅಭಿವೃದ್ಧಿಗೊಳಿಸಿ ರೋಗಿಗಳು ಇರುವಲ್ಲಿಗೆ ಔಷಧಿ, ಮಾತ್ರೆ, ನೀರಿನ ಬಾಟಲಿ ತಲುಪಿಸುವ ಸೇವೆಯನ್ನು ವಿಸ್ತರಿಸಲಾಗುವುದು. ರೋಬೋಟ್ ಇರುವ ಪಥದಲ್ಲಿ ಅಗ್ನಿ ಅವಘಡ ಸೇರಿದಂತೆ ಯಾವುದೇ ಅನಾಹುತ ಸಂಭವಿಸಿದರೂ ಕೂಡಲೇ ಗ್ರಹಿಸಿ ಸಂದೇಶ ರವಾನಿಸಲು ಜಿಬಿ ತಂತ್ರಜ್ಞಾನ ಬಳಸಿಕೊಳ್ಳಲಾಗಿದೆ ಎಂದು ಹೇಳಿದರು. ಈ ವೇಳೆ ವಿದ್ಯಾರ್ಥಿನಿ ಎಂ.ಲಾವಣ್ಯ, ಸಂಸ್ಥೆಯ ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್ ಮತ್ತು ಕಮ್ಯೂನಿಕೇಷನ್ ವಿಭಾಗದ ಉಪನ್ಯಾಸಕ ಎಸ್.ಸಿ. ಕಾರ್ತಿಕ್, ಬಯೋಟೆಕ್ನಾಲಜಿ ಪ್ರಾಧ್ಯಾಪಕ ಪ್ರೊ. ಪ್ರಶಾಂತ್ ಉಪಸ್ಥಿತರಿದ್ದರು.

Bengaluru
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ವಾರ್ತಾ ಭಾರತಿ

ಸಪ್ತಗಿರಿ ಕಾಲೇಜು ವಿದ್ಯಾರ್ಥಿಗಳಿಂದ ರೋಬೋಟ್ ನರ್ಸ್‌ಗಳ ಆವಿಷ್ಕಾರ

ಬೆಂಗಳೂರು, ಅ.28: ಆಸ್ಪತ್ರೆಯಲ್ಲಿ ಸಿಬ್ಬಂದಿ ಕೊರತೆಯಿಂದಾಗುವ ಸಮಸ್ಯೆಗಳನ್ನು ತಪ್ಪಿಸಲು ಹಾಗೂ ರೋಗಿಗಳಿಗೆ ಗುಣಮಟ್ಟದ ಸೇವೆ ಒದಗಿಸುವ ನಿಟ್ಟಿನಲ್ಲಿ ಸಪ್ತಗಿರಿ ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜು ವಿದ್ಯಾರ್ಥಿಗಳು ವಿಶಿಷ್ಟವಾದ ರೋಬೋಟ್‌ಗಳನ್ನು ಆವಿಷ್ಕರಿಸಿದ್ದಾರೆ.

ನಗರದ ಪ್ರೆಸ್‌ಕ್ಲಬ್‌ನಲ್ಲಿ ಆಯೋಜಿಸಿದ್ದ ಪತ್ರಿಕಾಗೋಷ್ಠಿಯಲ್ಲಿ ಮಾತನಾಡಿದ ಕಾಲೇಜು ವಿದ್ಯಾರ್ಥಿನಿ ನಿಶಾ ಕೆ. ಮೆಹ್ತಾ, ರೋಬೋಟ್‌ಗಳು ರೋಗಿಗಳಿಗೆ ಸಮಯಕ್ಕೆ ಸರಿಯಾಗಿ ಔಷಧಿ ನೀಡಲು ನೆರವಾಗಲಿವೆ. ರೋಗಿಗಳಿಗೆ ವೈದ್ಯರು ಸೂಚಿಸಿರುವ ಔಷಧವನ್ನು ನಿಗದಿತ ಸಮಯಕ್ಕೆ ರೋಗಿಯ ಹಾಸಿಗೆ ಬಳಿಗೆ ಈ ರೋಬೋಟ್ ಕೊಂಡೊಯ್ಯಲಿವೆ. ಸಾಮಾನ್ಯವಾಗಿ ರೋಬೋಗಳನ್ನು ರಿಮೋಟ್ ಮೂಲಕ ನಿಯಂತ್ರಿಸಲಾಗುತ್ತದೆ. ಆದರೆ, ಇದರಲ್ಲಿ ಒಂದು ದೊಡ್ಡ ರೋಬೋಟ್ ಏಕಕಾಲಕ್ಕೆ 100ಕ್ಕೂ ಹೆಚ್ಚು ಇತರೆ ರೋಬೋಟ್‌ಗಳನ್ನು ನಿಯಂತ್ರಿಸಲಿದೆ ಎಂದು ಹೇಳಿದರು.

ಮೊದಲ ಹಂತವಾಗಿ ರೋಗಿಗಳ ಹಾಸಿಗೆವರೆಗೂ ಹೋಗುವಷ್ಟು ಹಂತಕ್ಕೆ ರೋಬೋಟ್‌ಗಳನ್ನು ಸಿದ್ಧಪಡಿಸಲಾಗಿದೆ. ಮುಂದೆ ರೋಗಿಗಳು ಇರುವಲ್ಲಿಗೆ ವೈದ್ಯರ ಪ್ರಿಸ್ಕ್ರಿಪ್ಷನ್, ಮಾತ್ರೆಗಳನ್ನು ತಲುಪಿಸಲಿದೆ. ಜತೆಗೆ ಅವರಿಗೆ ಅಗತ್ಯವಾದ ಪತ್ರಿಕೆಗಳು, ಮ್ಯಾಗಝಿನ್‌ಗಳನ್ನು ಹಾಗೂ ನೀರಿನ ಬಾಟಲ್ ಸೇರಿದಂತೆ ಅಗತ್ಯ ವಸ್ತುಗಳನ್ನು ತಲುಪಿಸುವಂತೆ ಸೇವೆಯನ್ನು ವಿಸ್ತರಿಸಲಾಗುವುದು. ಇದೇ ಅಲ್ಲದ ಅಗ್ನಿ ಅವಘಡ ಸೇರಿದಂತೆ ಆಸ್ಪತ್ರೆಯ ಯಾವುದೇ ಭಾಗದಲ್ಲಿ (ರೋಬೋ ಇರುವ ಪಥದಲ್ಲಿ) ಏನೇ ಅನಾಹುತ ಸಂಭವಿಸಿದರೂ ಕೂಡಲೇ ಗ್ರಹಿಸಿ ಸಂದೇಶ ರವಾನಿಸುವ ನಿಟ್ಟಿನಲ್ಲಿ ಜಿಬಿ ತಂತ್ರಜ್ಞಾನ ಬಳಸಿಕೊಳ್ಳಲಾಗಿದೆ ಎಂದು ತಿಳಿಸಿದರು.

ವಿದ್ಯಾರ್ಥಿ ಅಭಿಲಾಷ್ ಮಾತನಾಡಿ, ಮುಂದಿನ ದಿನಗಳಲ್ಲಿ ಅಗ್ನಿ ಅನಾಹುತ, ಕಟ್ಟಡ ಕುಸಿತ ಸೇರಿದಂತೆ ಮರಣಾಂತಿಕ ಸಂಭವಿಸಿದಾಗ, ಜನರು ಹೋಗಲು ಸಾಧ್ಯವಾಗದ ಇಕ್ಕಟ್ಟಿನ ಸ್ಥಳಗಳಿಗೆ ಈ ರೋಬೋಗಳು ಹೋಗಿ ಮಾಹಿತಿ ನೀಡುವ ರೀತಿಯಲ್ಲಿ ಅಭಿವೃದ್ಧಿಪಡಿಸುವ ಚಿಂತನೆ ಇದೆ ಎಂದರು.

ಸುದ್ದಿಗೋಷ್ಠಿಯಲ್ಲಿ ವಿದ್ಯಾರ್ಥಿನಿ ವಿ.ನೇತ್ರಾವತಿ, ಎಂ.ಲಾವಣ್ಯ, ಸಂಸ್ಥೆಯ ಇಲೆಕ್ಟ್ರಾನಿಕ್ಸ್ ಮತ್ತು ಕಮ್ಯೂನಿಕೇಷನ್ಸ್ ವಿಭಾಗದ ಉಪನ್ಯಾಸಕ ಎಸ್.ಸಿ. ಕಾರ್ತಿಕ್, ಬಯೋಟೆಕ್ನಾಲಜಿ ವಿಭಾಗದ ಸಹಾಯಕ ಪ್ರೊ.ಪ್ರಶಾಂತ್ ಉಪಸ್ಥಿತರಿದ್ದರು.

ಇದೇ ವೇಳೆ ಸಂಸ್ಥೆಯ ವಿದ್ಯಾರ್ಥಿಗಳು ತಾವು ಆವಿಷ್ಕರಿಸಿರುವ ರೋಬೋಟ್ ಮಾದರಿಗಳ ಪ್ರದರ್ಶನ ನೀಡಿದರು.

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ಔಷಧಿ ಪೂರೈಸಲು ರೋಬೋಟ್

ಬೆಂಗಳೂರು: ಆಸ್ಪತ್ರೆಗಳಲ್ಲಿ ರೋಗಿಗಳ ಆರೈಕೆಗೆ ಶುಶ್ರೂಷಕಿಯರು ಇಲ್ಲದಿದ್ದರೂ ಇನ್ನು ಚಿಂತಿಸಬೇಕಿಲ್ಲ. ರೋಗಿಗಳಿಗೆ ಮಾತ್ರೆ, ಔಷಧ ಪೂರೈಸಲು ರೋಬೋಟ್‌ಗಳನ್ನೂ ಬಳಸಬಹುದು.

ಸಪ್ತಗಿರಿ ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ವಿದ್ಯಾರ್ಥಿಗಳು ಇಂತಹ ರೋಬೋಟ್‌ಗಳನ್ನು ಅಭಿವೃದ್ಧಿಪಡಿಸಿದ್ದಾರೆ.

ವಿದ್ಯಾರ್ಥಿಗಳಾದ ಕೆ.ನಿಶಾ, ವಿ.ನೇತ್ರಾವತಿ, ಎಂ.ಲಾವಣ್ಯ ಅವರು ರೋಬೋಟ್‌ಗಳನ್ನು ಪ್ರದರ್ಶಿಸಿದರು. ಎಂ.ಅಭಿಲಾಷ್ ಮತ್ತು ಮಾರ್ಗದರ್ಶಕರಾದ ಪ್ರಶಾಂತ್ ಹಾಗೂ ಕಾರ್ತಿಕ್ ಎಸ್‌.ಸಿ. ಇದ್ದರು

ಕಾಲೇಜಿನ ವಿದ್ಯಾರ್ಥಿಗಳಾದ ವಿ.ನೇತ್ರಾವತಿ, ಕೆ.ನಿಶಾ, ಎಂ.ಲಾವಣ್ಯ, ಎಂ. ಅಭಿಲಾಷ್ ಅವರು ಉಪನ್ಯಾಸಕ ಕಾರ್ತಿಕ್ ಎಸ್.ಸಿ. ಅವರ ಮಾರ್ಗದರ್ಶನದಲ್ಲಿ ಅಭಿವೃದ್ಧಿಪಡಿಸಿರುವ ಈ ಯಂತ್ರಗಳು ರೋಗಿಗಳಿಗೆ ಸೂಕ್ತ ಸಮಯಕ್ಕೆ ಔಷಧಿ ತಲುಪಿಸಬಲ್ಲವು.

ಈ ಕುರಿತು ಶನಿವಾರ ಇಲ್ಲಿ ಸುದ್ದಿಗೋಷ್ಠಿಯಲ್ಲಿ ಮಾಹಿತಿ ನೀಡಿದ ಕಾರ್ತಿಕ್, 'ರೋಬೋಟ್‌ಗಳನ್ನು ಎರಡು ವಿಧದಲ್ಲಿ ವಿನ್ಯಾಸ ಮಾಡಿದ್ದೇವೆ. ಮೊದಲನೆಯದು ಕೇಂದ್ರೀಕೃತ ರೋಬೋಟ್. ಇದರ ಸಹಾಯದಿಂದ ಇತರ ರೋಬೋಟ್‌ಗಳಿಗೆ ನಿರ್ದೇಶನ ನೀಡಬಹುದು. ಇದರ ಆದೇಶದಂತೆ ಉಳಿದವು ಕಾರ್ಯನಿರ್ವಹಿಸುತ್ತವೆ. ಇದು ಏಕಕಾಲದಲ್ಲಿ 100 ಚಿಕ್ಕ ರೋಬೋಟ್‌ಗಳನ್ನು ನಿಯಂತ್ರಿಸುವ ಸಾಮರ್ಥ್ಯ ಹೊಂದಿದೆ' ಎಂದು ತಿಳಿಸಿದರು.

'ಸದ್ಯಕ್ಕೆ ಆಸ್ಪತ್ರೆಯಲ್ಲಿ ಬಳಸಲು ಸಹಕಾರಿ ಆಗುವಂತೆ ಈ ಯಂತ್ರಗಳನ್ನು ವಿನ್ಯಾಸಗೊಳಿಸಲಾಗಿದೆ. ಭವಿಷ್ಯದಲ್ಲಿ ಶಿಕ್ಷಣ ಸೇರಿದಂತೆ ವಿವಿಧ ಕ್ಷೇತ್ರಗಳಿಗೂ ಅನ್ವಯವಾಗುವಂತಹ ರೋಬೋಟ್‌ಗಳನ್ನು ಅಭಿವೃದ್ಧಿಗೊಳಿಸುತ್ತೇವೆ' ಎಂದು ತಿಳಿಸಿದರು.

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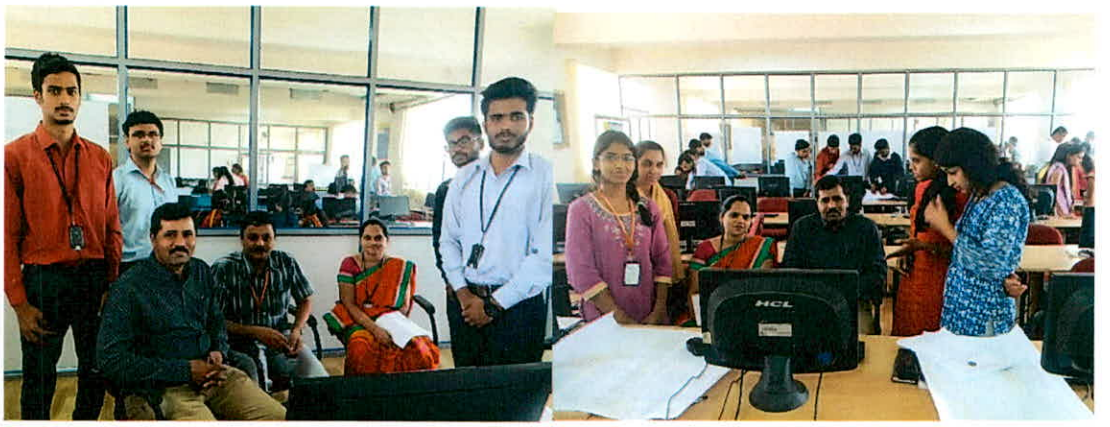
Project Exhibition

Project Exhibition for 8th sem students was conducted on 19/5/18 Evaluators are **Dr. Manjunath. T.N** Prof & Head, Dept of ISE, BMSIT, Bangalore, **Dr. Thippeswamy.B.M** Prof & Head, Dept of CSE, BMSIT, Bangalore, **Dr. Gopal Krishna.M. T,**Prof & Head, Dept of CSE, KSSEM, Bangalore.



Mini project exhibition.

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PHOTOS OF FIELD VISIT

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NEW TANK PROJECT

Guided by:

Mr. Pramod. K.R

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OLD TANK PROJECT

Guided by:
Mr. RAJIV. T

Principal
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HIGHWAY PROJECT

Guided by:

Mr. AKSHAY J

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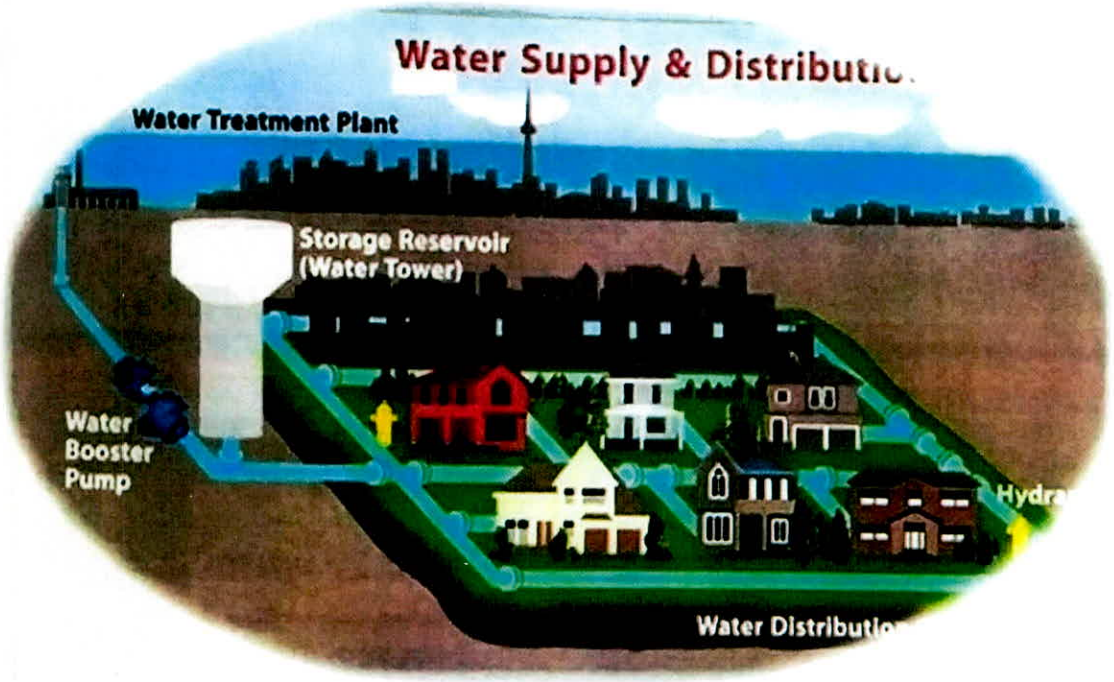
WATER SUPPLY AND SANITARY PROJECT



Guided by:

Mr. DHRUVARAJ. M. S

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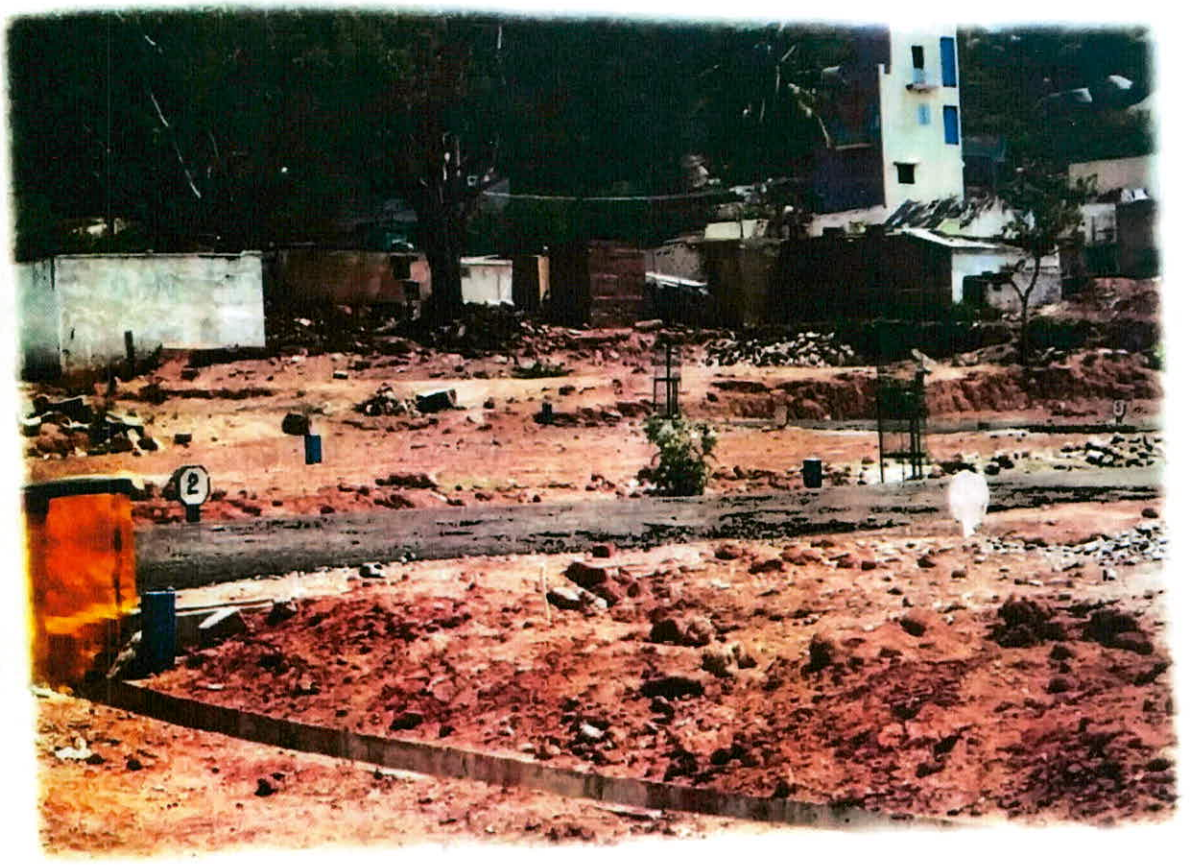
TOWN PLANNING



Guided by:

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