



Agni College of Technology

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ISO 9001:2015 Certified Institution.



JWALA

One Voice. One Choice

www.act.edu.in

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Actioneering

AUGUST 2018



**"Study Nature, Love nature,
Stay close to nature. It will
never fail you."**

-Frank Lloyd Wright

**"A Thing of Beauty is a Joy
Forever"**

-John Keats

We, at Agni College of Technology, take effort in keeping the campus GREEN. The place which stood as a barren landscape almost two decades ago stands tall today, ranking as the best green campus in the Chennai city. In contrast to the din and dust of the Chennai city, Agni campus is where you get a breath of fresh air. Green spirits often referred as 'Spirits of healing' embalms the Agni's serene environment.

Here, in Agni the environment with abundant greenery helps the students' mind to stay relaxed and focused. Much of their spare time is spent with nature as it speeds up the healing process and gets their spirits back in alignment. All of this packed into a single spice is definitely a treat to our sight. No one can deny the fact that the Agni campus is fresh, green, clean, and simply beautiful. It is the natural and ideal place for learning.

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Hon. Advisor's



Message

I am very happy that "Jwala" is being published. As Agni College of Technology grows in stature, the need for a regular college magazine sharing and deliberating on a wide range of issues becomes a necessity. Towards this end Jwala can play an important role. It is good to know that the major contribution in Jwala comes from the students themselves.

My congratulations and best wishes to the editorial team members and those who have contributed to this issue.

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From the Principal's Desk

Dr. R.S.kumar
Principal
Editor-in-Chief
Jwala

The future belongs to those who prepare for it today. We are the college with a difference! We value uniqueness, creativity and innovation and strive to nurture them in our students. Jwala magazine is a powerful resource to encourage students and staff to strive for excellence in their education and career. Apart from regular curriculum activities the college stresses on students and staff to update knowledge in their chosen areas of expertise.

We inculcate an enterprising spirit among students in shaping a better future for mankind by developing effective and socially responsible individuals contributing to the process of nation building. I take pleasure to appreciate the editors, the staff team and the student team for their meticulous work which is visible in the articles published. I am sure the team will progress to achieve propelling the organization into Himalayan success in the process of ACTioneering.

Message from Dean, Academics

Dr. Srinivasan Alavandar
Dean Academics



With warm welcome, I congratulate the editorial team in bringing back the JWALA that offers a chance to be part of the day-to-day college life for the past, present and future prospective stakeholders. This newsletter will help us to travel through the activities of the Agni College of Technology in the path of academic, co-curricular and extra-curricular achievements of the students, staff and faculty members. I congratulate each one of them who had won and participated in the events and who have written excellent articles for this issues. I wish volume should increase in near future hope this magazine will definitely be an inspiration and motivation for the students and staff to perform better and add on the contributions in the forthcoming issues. I wish them all the very best for future endeavours.

Agni Anthem

We are the people of the beautiful motherland
 We are the people who nurture our talent
 We sow the seeds for scientific revolution
 We are the evidence of technical evolution
 We are aiming at the planet's renovation
 We will make it possible by modern innovation
 Our goal is victory and a place in history
 Our goal is victory and a place in history, we unite
 To serve the society in the state of ecstasy
 To serve the society in the state of ecstasy, we unite
 The name itself shows who we are, Agni
 Who we are Agni
 We are Agnians.....
 We are Agnians.....
 We are Agnians.....



Penned by
K. Ponraj
 B.E. Mechanical, III year

Editor's desk



Dr. M. Prince
 HoD, Dept. of Mechatronics

Dear Readers,

It gives me great opportunity to present the third issue of JWALA for the academic year 2018-2019, the measure of progress. The past month was full of various activities by the students and faculty in academic, co curricular, extra-curricular as well as industry and alumni connects. JWALA of ACT gives pleasure to all the brilliant minds who traverse through the portals of this temple of learning. I am happy to see the amount of enthusiasm of eminent members of the college to contribute to the magazine. Not to be outdone, our students have devoted time and plunged into creating powerful stories, heart-warming poems, vivid drawings and informative articles. I stand awed by the sheer number of articles that have come pouring in for the magazine. This shows the positive and creative energy of faculty members and students present in the college. We proudly publish the third issue of our college magazine in order to show to the outside world, and also to remind the progress we have made in August' 2018. We intend to continue presenting the talent and creativity of our staff and students through JWALA. I invite you to read and immerse yourself in the unfolding art and be exulted.

Wish you all best luck.

*Put your heart, mind, and soul into even your smallest acts.
 This is the secret of success.*

-Swami Sivananda

Placement News

CINIF Technologies Campus Drive

CTL (CINIF TECHNOLOGIES LIMITED) has strategic business alliances for a broad spectrum of products and services which allows them to offer the most cost effective solutions to the customers. They provide business and Telecom solutions. In order to serve their existing customers, they have support service arrangements in various cities across the country. CINIF Technologies established in 2009 and recently the company has become a Public Limited, Registered under the Companies Act, 2013.

The company had visited Agni College of Technology on 23.08.2018. The total numbers of students placed in ECE are 27 and in EEE are 5.



www.act.edu.in

AGNI MAKES IT BIG AT CINIF



DHINAKARAN.V	EEE	GOPINATH B	ECE
KAMAL PRAKASH. P	EEE	A. GURUSAMY KUMAR	ECE
PRABAKARAN.S	EEE	ILAYARAJA. B	ECE
SASIDARAN V	EEE	JAISON BLESSING. J	ECE
SANTHOSH. T	ECE	KAMESH. G	ECE
SATHYA NARAYANAN . G	ECE	KISHORE KUMAR. S	ECE
SETHAN. G	ECE	MANIVANNAN KANNAN	ECE
VANMATHI. P	ECE	MATHANAGOPAL. R	ECE
VIGNESH .M	ECE	MATHANGI. C	ECE
ANGELIN .K	ECE	NAGA SANKAR SANTHOSH. L	ECE
ARJUN GANDHI. B	ECE	NIJENDIRA RAJ .V	EEE
BENITA ANGELIN. B	ECE	PRABHU NJ	ECE
DHAYALAN. M	ECE	PRIYA DARSHIN BABU	ECE
ELAVARASAN M	ECE		

SALARY PACKAGE : 3.6 LPA

TESTIMONIALS OF PLACED STUDENTS

Angelin K,

ECE IV Year A Section

Technical Training was helpful to crack the technical part and get placed in CINIF.

Communication training gave me the confidence to face the interview and make it successful.

Kishore Kumar S,

ECE IV Year B Section

The Technical Training offered in our college had helped me to grow my skills and gain experience in my presentation skills.

Prabhu N J S,

ECE IV Year B Section

Technical Training in Java helped me to solve the problem in Java based question and helped me to understand the basic concepts of Java programming.

Dhinakaran V,

EEE IV Year

Training gave me the confidence to face the interview boldly.

CENTRE OF EXCELLENCE – Robolab4.0



Department of Mechatronics has established ROBO 4.0 LAB in association with PRAG Robotics.

- Offer hands-on training to engineering students by industrial experts.
- Assessment by Industry experts
- AICRA and NSDC certification.
- Placement support for trained students
- Industry projects to students
- Pre-Industrial experience

Equipments:

Hardware:

- ABB IRB1520ID high precision arc welder.
- 6 axis articulated type with 4 kg payload and a reach of 1.5 m.

Software:

- Robo studio version 6.5

Technical training offered through COE

- A course on "Industrial Robotics" is conducted for Mechatronics students.
- A course on "Robotics & Artificial Intelligence" is conducted for ECE students.

Students feedback about the training

Robotics technical training offered in our college had helped me in enhancing my practical experience in robotics programming, simulation and operation.



**Khamrudeen J
IV Mechatronics**

CENTRE OF EXCELLENCE – Seagrass Tech Private Limited

Seagrass Tech Private Limited, a global venture start-up in India has developed a harvesting technology platform that uses non-potable water, such as seawater, and non-arable Tsunami affected land to grow marine micro algae. The company was established on March, 2016 and on target to start the production by January, 2018. Seagrass operates in 100 acres production facility in Karaikal, a major port city of East Coast of India and a municipality district in the Union Territory of Puducherry, India. Sea Grass is planned for a space of 20 ft x 10 ft along with round the clock air conditioner facility and a power back up facility along with water for developing our pilot level photo bioreactor system (10000 L) for growing and testing their value added marine micro algae in our institution.

Equipments:



Autoclave



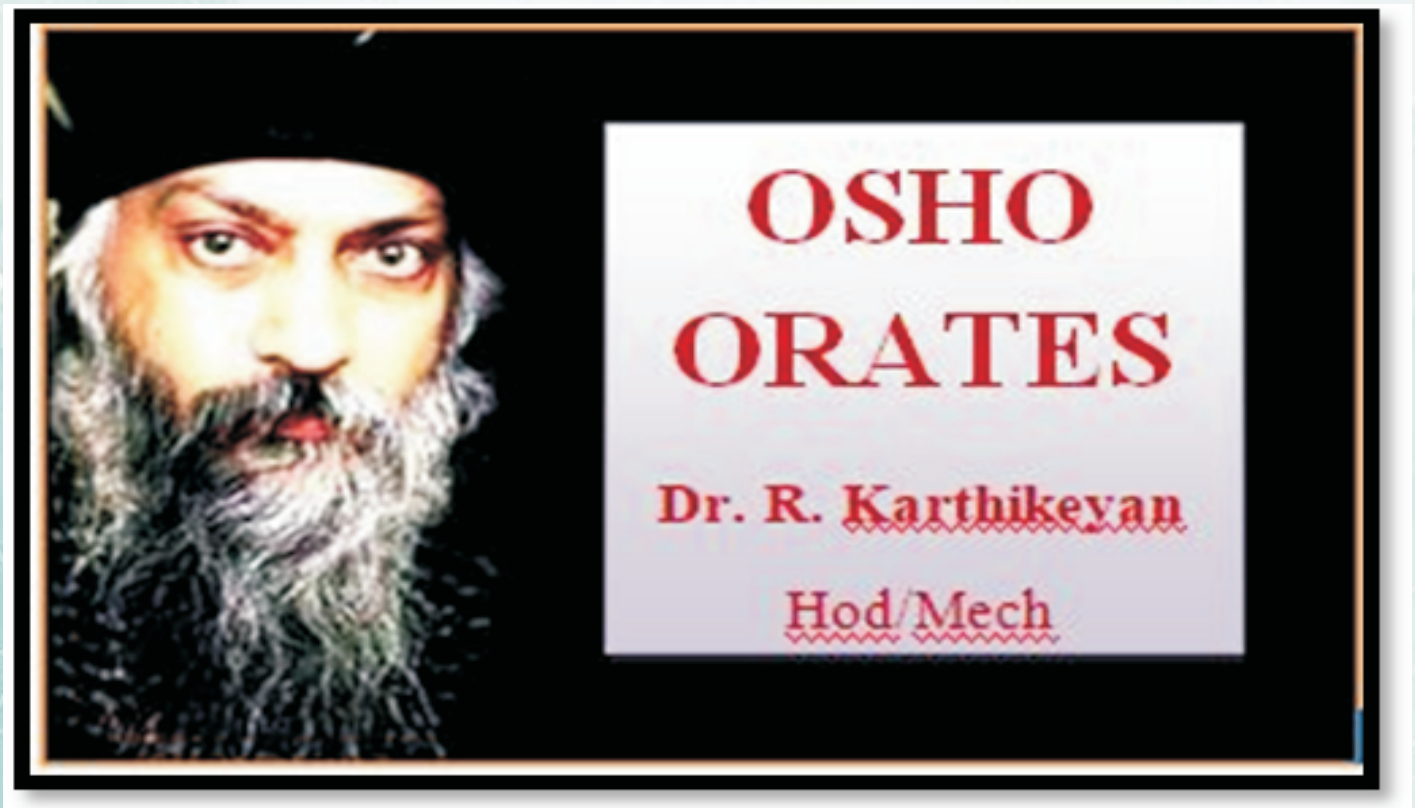
Incubator



MoU Signed between Dept of Chemical Engineering, Agni College of Technology and Seagrass Tech Private Limited.

Monthly Articles

OSHO ORATES



"Man is almost mad; mad because he is seeking something which he has already got; mad because he's not aware of whom he is; mad because he hopes, desires and then ultimately feels frustrated. Frustration is bound to be there because you cannot find yourself by seeking; you are already there. The seeking has to stop; the search has to stop...."

Think

Who am I?

Go on, say it, and say it to yourself.

"Who am I?"

Say it aloud:

"Who am I?"

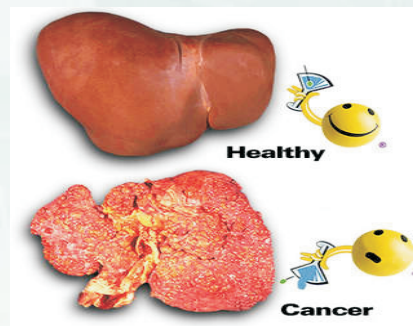
Yes, indeed, who are you?

This is the essential question that faces the vast majority of thinking people living in these disturbing times. Knowing oneself energizes, directs and motivates a "namby-pamby" into a great personality. But you can realize "you" only through self believing and not through seeking.

CHOLANGIO CARCINOMA – The liver cancer expectancy

The liver, is an organ only found in vertebrates, detoxifies various metabolites, synthesize proteins, and produces biochemical necessary for digestion. In humans, it is located in the right upper quadrant of the abdomen, below the diaphragm. Its other roles in metabolism include the regulation of glycogen storage, decomposition of red blood cells and the production of hormones. Cancer is a group of diseases involving abnormal cell growth with the potential to invade or spread to other parts of the body.

Primary liver cancer is a condition or disease that happens when normal cells in the liver become abnormal in appearance and behaviour. The cancer cells can then become destructive to adjacent normal tissues, and can spread both to other areas of the liver and to organs outside the liver. Liver cancer is also called hepatic cancer. Cancerous cells that develop in the normal cells of the liver (hepatocytes) are called hepatocellular carcinoma. A cancer that arises in the ducts of the liver is called cholangio carcinoma. Metastatic cancer is a cancer that has spread from the place where it first started (the primary site) to another place in the body (secondary site). Metastatic cancer in the liver is a condition in which cancer from other organs has spread through the bloodstream to the liver. Here the liver cells are not what have become cancerous. The liver has become the site to which the cancer that started elsewhere has spread. Metastatic cancer has the same name and same type of cancer cells as the original cancer. The most common cancers that spread to the liver are breast, colon, bladder, kidney, ovary, pancreas, stomach, uterus, and lungs



The causes of liver cancer may be linked to environmental, dietary, or lifestyle factors. Liver cancer causes no symptoms of its own. Drinking alcohol can lead to cirrhosis, which in turn, can lead to liver cancer. Not drinking alcohol or drinking in moderation could help prevent liver cancer. Since smoking also increases the risk of liver cancer, not smoking will also prevent some of these cancers. As the tumour grows, it may cause symptoms of pain in the right side of the abdomen or feeling overly full after eating a little. Some patients may have worsening of symptoms of chronic liver disease or cirrhosis, which often precedes the development of cancer of the liver unexplained weight loss, wasting (cachexia), nausea or vomiting, feeling of an enlarged liver. There are so many treatments for liver cancer based on their stage of it. Some treatments are Immunotherapy, Embolization therapy, Chemotherapy, Radiation therapy, etc...

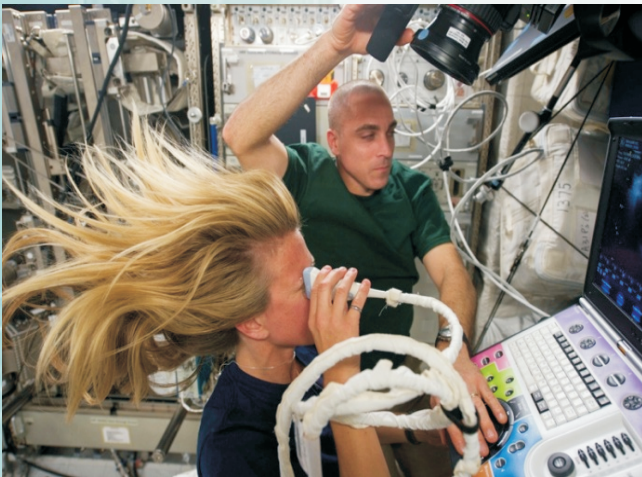
Immunotherapy is advancement in the field of cancer treatment which boost the body's immune system to fight against the cancer causing cells. It trains the immune system to recognize the cancer cells and destroy it. It also stimulates the immune system to destroy cancer causing cells by using antibodies.

The most significant risk factor for liver cancer is chronic infection with hepatitis B virus (HBV) and hepatitis C virus (HCV). These viruses can spread from person to person through sharing contaminated needles (such as in drug use) and through unprotected sex, so some of these cancers may be prevented by not sharing needles and by using safer sex practices (such as consistent use of condoms). By knowing the stage of the liver cancer and which causes the cancer in our body, we can treat it in a correct way to cure that.

Surgery – In Zero gravity

Human beings are tired of living on the earth and want to move to the space. It's a grim truth. Many research works are experimented to check whether human beings are fit to live in the Zero gravity environment. Presently a space nation called 'Asgardia' has been developed by a group of researchers and they had successfully launched their satellite named Asgardia-1. In fact, nearly more than 2, 03,500 people have become citizens of Asgardia.

The Idea of living in space is not the same as living on earth. Many things are different. The astronaut who does researches in space experience internal changes in the gravity-less environment even their heart and blood flow change. When we stand up on earth, blood goes to our legs but in space without the pull of gravity, the blood moves to the upper body and head. In Zero gravity, heart has to work extra hard to move the blood all around the body. To cope up with this astronauts are provided with medical kit and latter used diagnostic devices like Advanced Diagnostic Ultrasound in Microgravity (ADUM) for monitoring organ and bone health and also used compact magnetic resolution imager.



To the next level of research, scientists are planning to perform a surgery in Zero gravity. The main disadvantage is that blood and bodily fluids cannot be contained in gravity less environment, which means there is currently no way to perform surgery in space without contaminating the cabin. A group of bioengineers designed a surgical system called Aqueous

AISS is a transparent box that creates a watertight seal when it is placed over a wound and pumped full of sterile saline solution. This solution is held under pressure inside the AISS to prevent blood from seeping out of the wound. Airtight holes allow doctor to access the submerged wound using handheld instruments. The system can also used to siphon and recycle blood by varying the pressure, which will be



This system may be useful in operating theatres back on earth – for example, for brain and spine surgery, where bleeding presents serious complications. Even though this Zerogravity environment is not designed for humans but we are very curious in

By **J.Jeeviga**

BME III year

BLOOM ENERGY BASED ON FUEL CELL TECHNOLOGY

INTRODUCTION:

Bloom Energy is a provider of breakthrough solid oxide fuel cell technology generating clean, highly-efficient onsite power from multiple fuel sources. Founded in 2001 with a mission to make clean, reliable energy affordable for everyone in the world, Bloom Energy Servers are currently producing power for numerous Fortune 500 companies including Google, Walmart, AT&T, eBay, Staples, The Coca-Cola Company, As well as notable non-profit organizations such as Caltech and Kaiser Permanente. The company is headquartered in Sunnyvale, CA. For more information, visit [www.Bloomenergy.com]

INVENTOR: Mr. K. R. Sridhar is the founder and CEO of Bloom Energy. He is the inventor of bloom energy.

Born: 1960 (age 58 years), Tamil Nadu

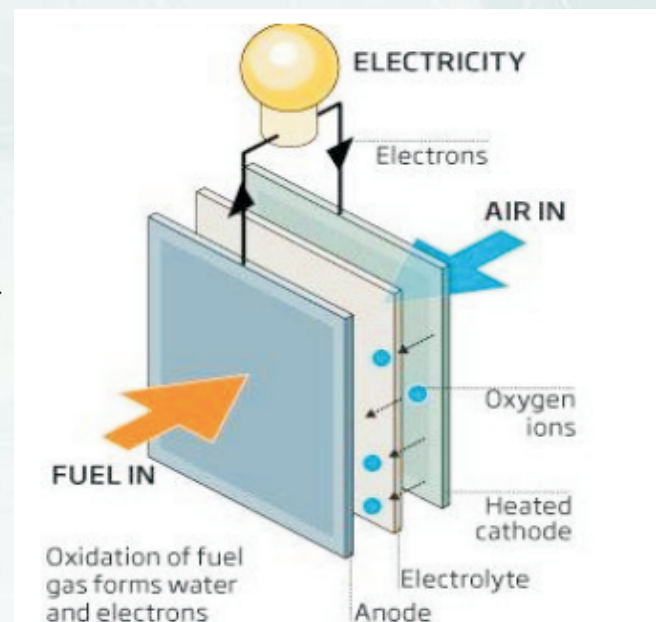
Education: University of Illinois at Urbana–Champaign,

National Institute of Technology, Tiruchirappalli, University of Madras

Books: Aquatic Plants and Plant Diseases: Types, Characteristics and Management

BENEFITS:

- Save money on your electricity
- Lower your costs immediately
- Maintain predictable costs over a 15-year period
- Cut your carbon footprint
- Up to 50% reduction in CO₂ emissions
- No NO_x, SO_x, or other harmful pollutants



CONCLUSION:

The costs should come down over time to the point where Bloom boxes really can be used in homes. One potentially disruptive feature of the technology is that it works both ways: fuel can produce electricity, but it can also go the other way so that electricity produces fuel. Sridhar foresees the killer app for his technology becoming practical in about a decade: a Bloom home energy server combined with solar panels or some other renewable energy. The electricity from the solar panels could produce fuel, which can be used to produce electricity to power the house or even to gas up your (modified) car.



By **C.RAMAJAYAM**
EEE , II year

NANO MATERIALS

Nano materials are defined as the materials having size order in a range of 1-200nm. They are applications with morphological features smaller than a one tenth of a micrometer in at least one dimension. A logical definition would situate the nano scale between micro scale (0.1 μ m) and molecular/atomic scale (0.2 μ m). Nano materials are widely accepted as it miniaturizes the structure providing some excellent properties compared to conventional coarser materials.

Nano materials have been classified on different basis e.g. Siegel classified nano structured materials into four categories according to dimensionality i.e. 0D – nano clusters, 1D multi layers, 2D nano grained layers and 3D equiaxed bulk solids. Classification is also based on the grain size. Gieter classified according to morphology and distribution of nano crystalline component. According to shape of the crystallites, crys-three categories of nano materials may be distinguished; layer shaped tallities, rod shaped crystallites and nanostructures composed of equiaxed nanometer sized crystallites.

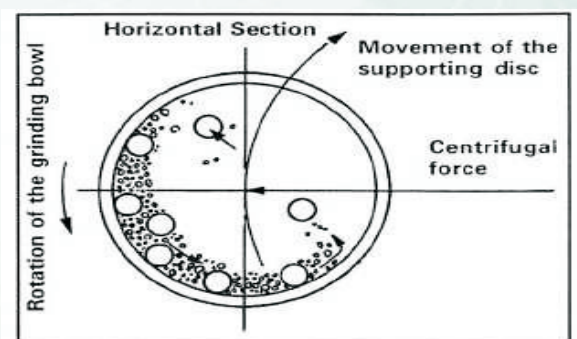
Nano materials vs conventional materials:

Nano materials are dominating the conventional coarser materials because its wide range of advantages as they exhibit some excellent mechanical properties along with miniaturizing the structure. Mechanical properties i.e. yield stress, ductility, strain hardening, strain sensitivity, dynamic response, creep, fatigue, temperature stability etc.

Mechanical Alloying – Nano Materials:



The actual process of Mechanical Alloying starts with mixing of the powders in the right proportion & loading the powder mix into the mill along with the grinding medium (generally steel balls). This mix is then milled for the desired length of time until a steady state is reached when the composition of every powder particle is the same as the proportion of the elements in the starting powder mix.



The milled powder is then consolidated into a bulk shape and heat treated to obtain the desired microstructure and properties. Thus the important components of the MA process are the raw materials, the mill, and the process variables.



Mr.A.HariPrakash
Assistant Professor, Dept of Mechanical & Automation

Mercedes Benz on the way to autonomous and accident free driving The revolution has begun.

If you drive a Mercedes-Benz vehicle, you appreciate its comfort, safety and dynamism. And yet day after day we are often stuck in congested traffic. Commuters spend an average of around 100 hours per year just in the evening rush hour. Time that can hardly ever be used effectively. The same applies to the stop-and-go traffic we have to get through at the beginning of the holidays. And maybe there are other times too when we would just like to do something else other than drive a vehicle. But in the foreseeable future we will not have to spend time at the wheel any more if we do not really want to: that tedious stop-and-go traffic after work will become a relaxed and safe beginning of the evening and long motorway journeys to our holiday destination will become part of the enjoyment. Mercedes-Benz has now initiated the "autonomous driving" revolution.

Regaining personal time.

The vehicle becomes a comfortable travelling lounge, a mobile office or simply a digital experience. Waiting times and fuel will be saved, and in future the "digital companion" will search for a parking space independently. "The time we spend in our cars will take on a completely new quality", says Professor Herbert Kohler, Head of Corporate Research & Sustainability and Chief Environmental Officer for Daimler AG. But above all: driving will be more efficient and safer. Is that just a dream for the future? Quite the opposite! Today, Mercedes-Benz vehicles have technologies on board that provide their drivers with unobtrusive but useful help in unpleasant and particularly dangerous situations.

The decisive first step.



The automobile assistance systems from Mercedes-Benz are important parts of a comprehensive safety strategy and make a considerable contribution to occupant comfort. For example, COLLISION PREVENTION ASSIST PLUS, Active Lane Keeping Assist and Active Blind Spot Assist, BAS PLUS with Cross-Traffic Assist or the PRESAFE® Brake with pedestrian detection show just how far autonomous driving at Mercedes-Benz has advanced. With them, the vehicle becomes a reliable partner that can think for it: that can see, feel and react in the event of danger.

Tomorrow's driving visions.

"In a few years, cars will move completely freely. Passengers could then sit with their backs to the steering wheel while the car does the steering". This is the vision of Dieter Zetsche, Chairman of the Board of Management of Daimler AG and Head of Mercedes-Benz Cars. Mercedes-Benz recently demonstrated just how close the future is, with impressive results. The near-standard Mercedes-Benz S 500 INTELLIGENT DRIVE mastered the roughly 100-kilometre-long route from Mannheim to Pforzheim almost independently. This is the route which Bertha Benz drove in 1888 as the very first automobile journey in history – and one which is very tricky because of narrow sections through towns and villages, and around roundabouts. And the F 015Luxury in Motion research vehicle not only has the intelligence to find its own way in traffic. It also boasts a roomy, comfortable interior to finally make the vehicle a mobile living space. Presumably, in only ten or twenty years time, Mercedes-Benz drivers will think about what favourite activities they want to pursue on their journey. But one thing is sure: driving a Mercedes-Benz oneself will certainly be on the list.

By **Shorn Philip**
III year MAE

THE TRUTH BEHIND THE MASK

Masks are covers to amuse others and also for protection, is it necessary to wear it? Mr.A.Sam Daniel Fenny, AP/MAE, explaining the reasons why people (especially students) wear mask to hide their true self, which in turn affects his/her surroundings.

The origin of wearing a mask was dated long back where people used it for rituals purpose, where they cover their face and start their practices of old belief. As centuries passed on mask was used in different occasions, for instance during special occasions like lavish parties which included dance, wearing of mask became a fashion and still this tradition is not lost in dark. Then the era of wearing mask during Halloween days became famous because people never got to know who the true person is. The true reason behind wearing a mask from the beginning is to hide the true self and live a fake self for temporary fun. These above mentioned are mask 'We Can See' but there is a mask 'We Can Not See'.

This we can see mask are the ones which everyone is familiar to, they will know when the person will wear. But the when can't see mask are ones which the user only knows properly. What is this 'we can't see mask?' this is an imaginary mask worn by people to hide their self from others to live up according to the surroundings; these are specially worn by students between the age of 16 to 21 years. The cause for wearing this is to live according their friends, to please them and much more; in simple terms due to peer pressure the person wears it all the time. When people wear the mask the feel they have is as if they are living in some fantasy life and think it is the reality but we know it is wrong.

Masks are ones to amuse and also for protection and they think it is necessary, is it? When people start removing those imaginary masks then we can see the true ground zero of a person life. For example, when a student becomes a friend who is much better than his/her standard suddenly starts to think what should I wear? I am not equal to his/her status? Will that friend leave me because of that? Should I change my character? Etc., these are thoughts which hinder the student's life. In this world telling the truth or being true is wrong and vice versa, why are we pushed into this situation? It is nothing else than pleasing people, so that when we do wrong people like it, they appreciate it and the society accepts the way you are. But when we remove the mask that everyone is wearing then the situation will be different, which is basically ignoring and that leads to loneliness.

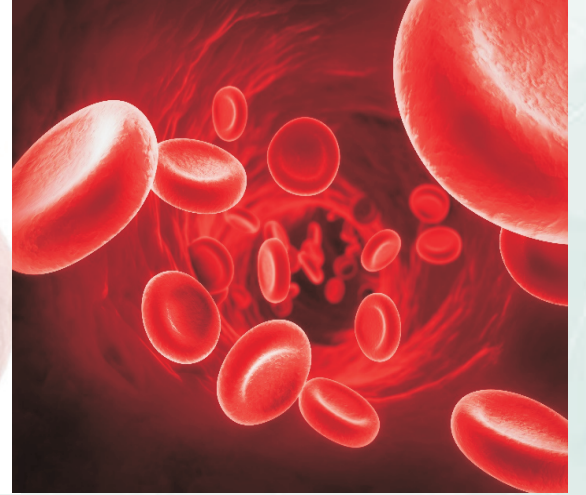
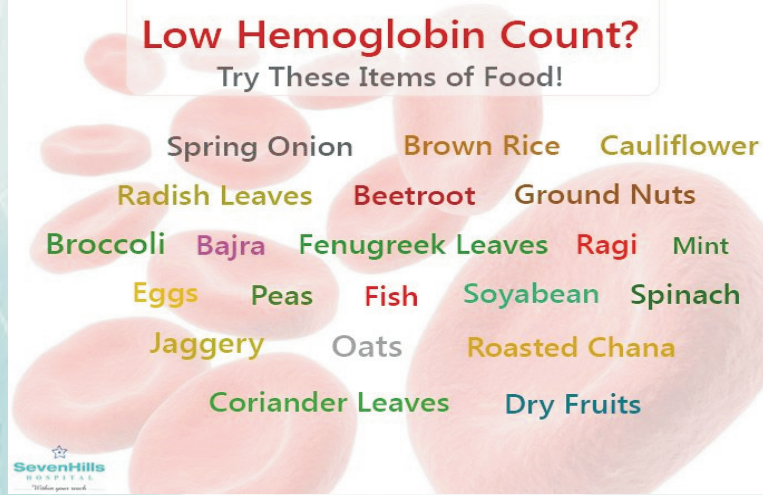
To be not pushed into the pit of being lonely, people want a mask and due to that they lose their own true identity. It is hard for everyone in this world to live without a mask. When I started writhing this I found a quote which helped me in thinking "We all have a social mask, right? We put it on, we go out, put our best foot forward, our best image. But behind that social mask is a personal truth, what we really, really believe about who we are and what we're capable of." Said by Phil McGraw, a psychologist and the host of the American show Dr. Phil. So "The Truth behind the Mask" is The Personal Truth, which means the



Mr.A.Sam Daniel Fenny
Assistant Professor, Dept of Mechanical & Automation

How to Increase Hemoglobin: Natural ways to up your Platelet count

In order to ensure that your blood platelets are in place, you must load up on iron-rich foods and other foods have essential nutrients like folic acid, vitamin C, and others. There is a list of foods which will help to boost your hemoglobin levels. Hemoglobin is an iron-rich protein that 's present in the red blood cells and is responsible for carrying oxygen throughout the body. According to the health experts, it is important to maintain normal levels of hemoglobin in your blood for your body to function properly, which is 14 to 18 g/dl for adult women



When the blood platelets are hemoglobin levels tend to decrease, it can cause weakness, poor appetite, headaches, fatigue, and shortness of breath, dizziness and rapid heartbeat. If the level of hemoglobin falls significantly, there is a chance that you may be anemic. In fact, it is said that most girls in India are iron deficient and are anemic. In order to ensure that your blood platelets are in place, you must load up on iron-rich foods and other foods that have essential nutrients like folic acid, vitamin C, and others

Consult a doctor in case the hemoglobin levels fall significantly.

By **L.K.Lakshmanan**
IV year Mechatronics

அறிவாற்றலின் அங்கமாய் தொடங்கி ,
மதிப்பெண்ணின் தேவையை நாடி,
ஒழுக்கத்தை எடுத்துரைத்து,
சமுதாயத்தின் சரித்திரத்தை அறியச்செய்து,
இயலிடத்தில் இன்பத்தை பரிசாய் அளித்து,
உற்றாருக்கும், உடன்பிறந்தாருக்கும் மட்டுமல்லாமல்
மண்ணில் பிறந்த மற்றாருக்கும் மதியை மனம் உகந்து உவகையோடு,
அள்ளித்தரச்செய்யும் அழகிய விடியல்.....
விண்ணில் மின்னும் விண்மீனாய்,
விருட்சத்தை எதிர்நோக்கும் விதைகளின் கனவாய்,
பிரபஞ்சத்தில் பிரதிபலிக்கும் கதிரவனின் ஒளியாய்,
மொட்டுக்களை மலரச்செய்து, இறுதியில்
நூதனத்தின் நூலாய் விகற்பமாக்கும் விரியமிக்க விதை.....

M.Karthika

III ECE B

Department of computer science and Engineering

Students Achievement:

- A Varshini.R, Karthickcharan, KrishnaKumar, Daya Meenashi and Ajay Kumar this students have participated in Hertech Hackathon Powered by PayPal on 25th to 26th Aug'18.

Staff Activities:

The Mr. S. Jagan Sr.AP/CSE , Mrs. A. Beena Godbin AP/CSE , Mr. J. Santhoshkumar AP/CSE, Mr. S. Gopinathan AP/CSE faculty have completed the certificate course "Robotics Process Automation", Organized by Focus Academy for Career Enhancement (FACE)on 18th aug'18.

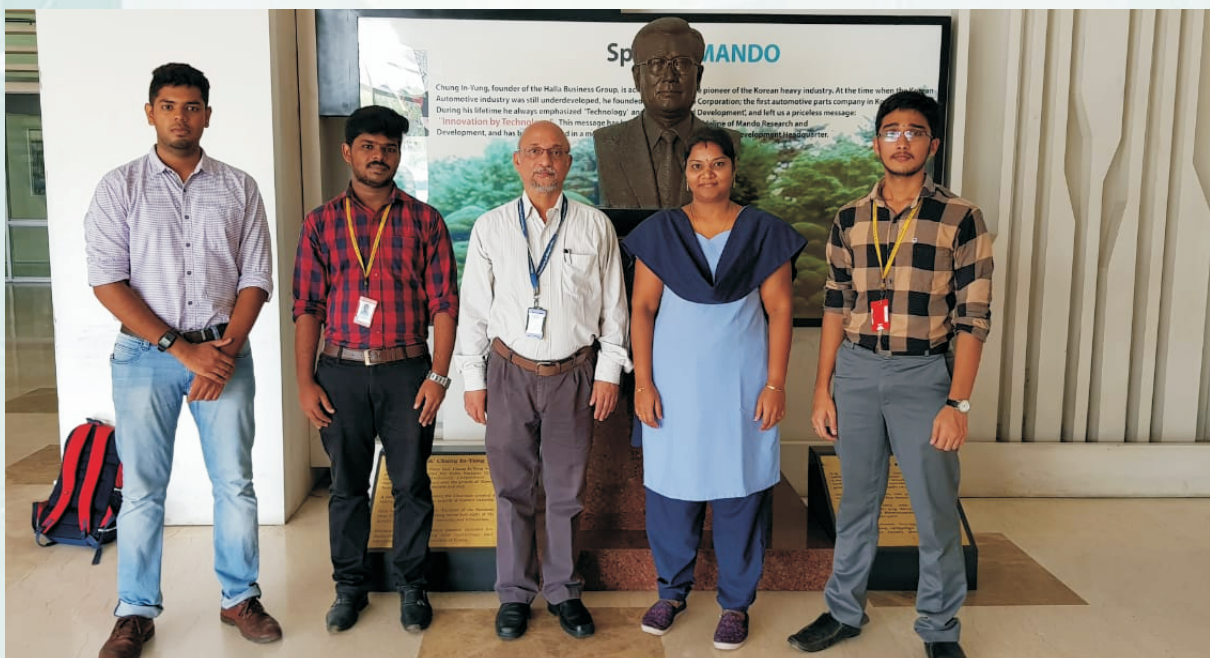
Certificate



- **Department Activities:**
- **Parent Teachers Meeting and Topper Award Function on 11.8.18**



Performance Development Management System a Software Development by Karthick Chanran IV A ,Chandrasekhar M III A, Balaji S III A from MANDO
Robotic Process Automation Training for CSE Department



DEPARTMENT OF MECHATRONICS ENGINEERING

Guest Lecture:

- A Guest lecture on Industrial Automation – PLC was organized by the department for the IV year students on 11th August, 2018. The resource person was Mr.L.Venkatesan Manager – Placements. Dr.M.Prince, Head of the department welcomed the resource person and introduced him to the audience.
- A Guest lecture on Industry Expectations from fresh engineering graduates was organized by the department on 14th AUGUST 2018. The resource person was Mr.B.Jai Vinod, Manager - HR & Industrial Relations of SUSPA Pneumatics Ltd, Chennai. Dr.M.Prince, Head of the Department welcomed the resource person and introduced him to the audience. Mr.B.Jai Vinod gave an introduction about the company and then shared his experiences about the topic. The students also interacted with the resource person and clarified their doubts.



Training delivered by industry experts / trainers:

- Training on robotics is offered to IV year students by PRAG Robotics.
- IOT training is offered to III year students by ABE Semiconductors.
- Training on CATIA is offered to II year students by Harita Techserv.

Notable Personalities who visited the Department:

- Mr.L.Venkatesan Manager from Hindustan Automation solutions has visited our department to discuss about training, internship, projects and placements on 6.8.18.
- Mr.B.Jai Vinod, Manager - HR & Industrial Relations of SUSPA Pneumatics Ltd, Chennai visited our department to share his HR experiences with our students.
- Mr.D.Muruganandam, Manager – Training visited our department to discuss about establishing COE on PLC.

Industry Projects

- Mr.Prasanna Kumar, AP/MHT and students team has done a project on Semi automatic weighing and separating machine for Super Auto Forge.
- Mechatronics II Year students did a project on Low cost control system for vehicle (fork lift) at Ashok Leyland.

• **Awards received by students**

- P.K.Rukesh Prasanaa from IV year Mechatronics won the first prize in Silambam individual game paring weapon at community hall by National Silambam Association on 5.8.18.
- P.K.Rukesh Prasanaa from IV year Mechatronics has acted as a referee in Individual game competition and placed Referee by "Tamilnadu State Level Silambam League 2018" at Dr.M.G.R Janaki College of Arts and Science on 20.8.18.

• **Rotaract club Activities**

- Ajish K from III year MHT has volunteered in the event Inippu Malalaigal (Independence Day Special) at Govt School, Ottiyambakkam on 15.08.18 organized by Rotaract club.



- Khamrudeen (IV year Mechatronics), Ajish K, Karan E, Ramanan.R (III year Mechatronics) and Rubin Rousevelt J from (II year Mechatronics) have collected Kerala Relief Fund along with Rotary Club of Royapettah on 16.08.18.



- E.Karan from III year Mechatronics has participated in International Service Director's Seminar (EVOLVE) 18-19 at Stella Mary's College, Chennai on 19.08.18
- Surendhar from IV year Mechatronics, E.Karan and Ajish K from III year Mechatronics have participated in District Assembly 3232 (Magudam) 18-19 at Chettinad Vidhyasharam, R.A.Puram on 26.08.18.



- **PRIDE activities**
 - Mohammed Abudhahirdeen V.M, Dwarakesh.K, Yogaraj.V from III Year have submitted a proposal titled “Digital Factory” for Mitsubishi Electric Cup competition and participated in the preliminary round.
- **Placement training programs**
 - TCS Ninja training for elite students was conducted by 3 Edge and Aptitude by Vista Mind to prepare the students to face TCS Ninja Online Test.
- **Alumni Connect**
 - Mr.D.Dhinesh, 2014-2018 batch alumni of our department working in Greatoo Molds India Pvt Ltd addressed III year students and shared his experiences.

Department of Chemical Engineering

Students of III year chemical engineering have visited Hatsun Agro Products Limited, Injambakkam ,Tamil Nadu on (03/08/2018).



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Educational Tour:

Educational tour was organized for III year ECE students. They visited Kochi, Munnar. They visited Jewish Synagogue, the holy temple of the Jews and Marine drive in Kochi. They visited waterfalls, majestic Mattupetty Dam, Spice garden in Munnar.



Alumni Meeting:

ECE Department Alumni Meeting was conducted on 25th of August 2018. More than 67 ECE alumni attended the meeting. They were from 2005 to 2018 batch. Among the alumni distinguished alumni are awarded. Alumni have interaction with placement team and final year students. Many entertainment programs were conducted for alumni by final year students.





Discussion between Alumni and Placement Team



Photo session with Alumni

Students Participation in Seminar / Conference / Workshop / Training

Ms. T. Amirtha and Ms. B. Gowsalya from III ECE presented a paper titled "Robotic Disposal of Medical Wastes" in National Conference on Communication, Power Generation and Computational Intelligence.

Placement:

About 27 ECE Students were placed in CINIF group of companies. The recruitment was done on 22nd of August 2018. The CTC is 3.6 Lakhs.

Project Proposal:

Ms. Maria Tamilannam X. , Elavarasi M. and Priyanka D.J. from IV ECE submitted a project proposal to Tamil Nadu State Council for Science and Technology titled " Horticulture In Green Highways" guided by Mr. M. Arun Kumar.

Ms. Sangeetha T., Srilekha N. and Priyanka S. from IV ECE submitted a project proposal to Tamil Nadu State Council for Science and Technology titled "Agriculture Drone for Sowing Seeds" guided by Mr. M. Arun Kumar.

ECE Department students Ms. Jegapriya J. (IV ECE A), Ms. Priyadarshini Babu (IV ECE B), Mr. Shebin W. (IV ECE C) and Mr. P. Arun (III ECE A) applied project proposal to "Mitsubishi Electric cup" guided by Mr. T. Rajasekar.

Workshops conducted by ECE Students:

A one day workshop on Robotics was conducted by Agni e- Yantra Lab on 11th August 2018. 40 students from ECE department attended this workshop. This workshop was inaugurated by our Principal Dr. R.S. Kumar. The resource persons for this workshop were 5 III year ECE students. The faculty coordinator for this event was Mr. T. Rajasekar and student coordinator was Mr. T. Ariharan.



Workshop Inaugurated by our Principal.



Visit and encouragement from our Dean

Department of Biomedical Engineering

Alumni Talk

- Motivational Talk by Alumni of Biomedical Department with Third Year Students of BME On 02.08.2018 MS. Vonica Berlin, Business Development Engineer, CURA healthcare, Alumni/BME of Agni College of Technology of Batch 2014-2018, addressed the third year students of BME



- Motivational talk by 5 alumni students placed in Abbott, BBraun, Zoho and Rapid healthcare with II BME students.



- Biomedical technical training program was conducted by Bio Vision Medical Systems for the third year BME students from 7.8.18 to 11.8.18. The training program was headed by the Directors Mr. Mohammed and Mr. Venkatesh with his team, who exhibited the medical equipments and gave hands on practical exposure to the students.



- The training comprised of the practical hands on session in the seminar hall on working of the medical equipments such as oxygen concentrator, nebulizer, patient monitor, BIPAP machine and ventilator. All the equipment parts were dismantled and individual parts were appended by the students

- The training also involved a one-day Industrial Visit for the third Year students of BME to BIOVISIONS –AMS SOLUTION. Biomedical Engineers from BIOVISIONS –AMS SOLUTION trained our students in the application and especially servicing the medical equipments. They further had training on major department equipment. They also had a complete training on heart lung machine, Homoeothermic and LABP machine. The principle of operation, their types, advancements and working of these equipments were conferred. The various port connections were shown; working and safety measures were briefly demonstrated. The working, sterilization and troubleshooting of the equipments were discussed.



- Finally the hands-on training was held on Diathermy, Defibrillators, Syringe pump, Infusion and air mattress. Demonstration and dismantling of these equipments were performed. The students were trained to service and troubleshoot the machines.



- The feedback from the students was positive and the training helped them to gain immense practical exposure and to understand of the medical equipments in hospitals. On the whole the Industrial visit was conducted in a very professional and efficient manner.

Participation of students in Guest Lectures seminars / workshops / symposium

- The students of second year attended the workshop on Hackathon organized by IT department, Agni College of Technology. The students attended the workshop on 21.08.2018: Makhish K.A, Manikandan K, Nandhini K, Prabakaran S, Seethalakshmi V, Shaju George B, Sujitha S.
- The students of second, third and final year attended workshop on recent trends dental radiology organized by SRM University on 20.08.2018 and 21.08.2018.. The students are Swathi B, Abisha K.M, Amala Paul P.S, Punitha T, Karpaga devi , Balaji R, Mahesh T of Second year, Priyanka S, Pavithra R, Shyla blessy J.D of Final year , Keerthana V, Shalini S, Muneesdharani M, Thirunuavukkarasu A, Meenatchi sundar N of Third year.
- The students of third year attended workshop on medical textiles for health care organized by SSN College on 31.08.2018. The students are Lakshmi Priya J, Divya P, Brindhya dhevi C.I, Gayathri M. R, Manju S, Jnifer Sarah Soundarya R of Third year, Deepika M, Nila P.D, Sakthi kiruthika M, Shalini V, Selshiya S, Sindhu of Second year and Thahseena sherin of Final year.

Department of Information Technology

Seminar

- The Department of Information Technology organized One Day Seminar on "Computer Networks" held on 18/08/2018 at Agni College of Technology. Mr.M.Mohan, Associate Professor/CSE, Panimalar Engineering College, provoking as a resource person.
- It was really an impressive presentation which exposed students and Faculty Members to the overview of the topic. All the students & Faculty members appreciated and benefited.



• Association Activity

- The Department of Information Technology organized The Institution of Engineers (INDIA) Sponsored, "Two Day All India Seminar on Cybersecurity and Data Protection". on 20-8-2018 & 21-8-2018 at Seminar Hall, Agni College of Technology.
- Resource Persons are
 1. Mr.Sibidharan Nandhakumar , Founder and CEO - AfterTutor Pvt.Ltd
 2. Mr. Sriram, Founder & CTO - Primefort Pvt Ltd

The seminar on Cyber Security included an Overview of Cybercrimes such as Electronic Commerce Crime, Economic Espionage, Infrastructure attacks, Defamation, Obscenity, Content Accountability, Copyright Violations, Trademark Violations, E commerce, Taxation, Provisions in the legal framework to combat Cybercrimes and finally discussed about Indian Cyber Law and provision of court proceeding for Cybercrimes and Cyber Law from India and International perspective. He also shared interesting details of few registered cases of cybercrime happened and their investigation process of solving the same. The seminar ended with full of information



Workshop

The Department of Information Technology organized Guest Lecture on “Cloud Computing” held on 22/08/2018 at Agni College of Technology. Mr.B.S.Vidhyasagar, Assistant Professor / CSE, S.R.M Institute of Science & Technology - Chennai , provoked as a resource person .

It was really an impressive presentation which exposed students and Faculty Members to the overview of the topic. All the students & Faculty members appreciated and benefitted



Alumni Interaction:

Ms. Priyanka, Batch (2014-2018) working as software engineer in Chartered Standard delivered speech on Recent Trends in Advance computing



Students Activities

- The final year IT students Mugesh, Muralidharan, Gurumanoj Kumar, Hari Krishnan, MuthuNathaNarayanan, Krithika, Pooja Roy, Sivaranjani, Lakshmi Priya **participated in Hertech Hackathon Competition held at Paypal on 15-8-2018.**



Department of Electrical and Electronics Engineering

Faculty achievements

1. Dr.M.Sridevi,HOD/EEE has been appointed as the Editorial Board Member of the International Journal of Medical Imaging by the Editorial office.
2. Mrs.Radhika Somakumar, AP/EEE has published a book titled Test Engineering in Chess Educational Publishers.

Energy club

This club mainly focuses on developing an interest in students of Electrical and Electronics Engineering to save and conserve electrical energy by teaching and helping them doing mini projects and other energy-related activities

Demonstration on DC motor speed control

DC gear motor speed control and remote data acquisition interfacing Arduino with labview



Alumni talk

Mr. M. Poovanan of Electrical and Electronics Department (2012- 2016 Batch) is working as Design Engineer at Fluorokraft Pvt Ltd Chennai. He gave a motivational speech to his juniors stating that, students have to get prepared and to develop enough skills to get placed in electrical core companies and shared his industrial experiences and challenges he faced during his learning process and advised the students to have the importance of discipline, punctuality, no arrears, self learning abilities and practical exposures that he finds secret of success for his career.



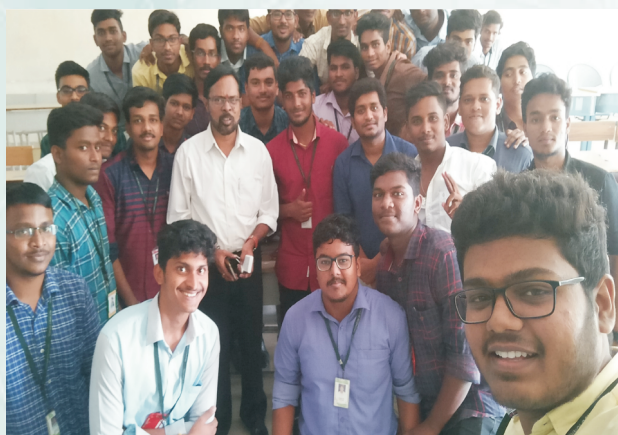
Student activities

1. The students from IV year EEE Seemaan M , Kavitha R and Saravanan S K have participated Real Thanos and Loki's room of Deception game conducted in Project Expo and Symposiums at Loyala College of Engineering.
2. The students from IV year EEE Prakashkumar K , Annamalai and P Ebin Jose have participated in Real Thanos game and Meme Creation event conducted in Project Expo and Symposiums at Loyala College of Engineering.
3. The students from IV year EEE Dhinakaran V , Bharath B ,Ramya D ,Akalya R ,Pratheengara M and Kurtraleeswaran T have participated in Race To Asgard Event conducted in Project Expo and Symposiums at Loyala College of Engineering.

Department of Mechanical:

Guest lecture

The Department of Mechanical Engineering has organized a Guest lecture for the Final year students on 21st Aug 2018. Mr. Rajan Babu, CEO & Director of Arghaa Technologies was the speaker of the day. He illuminated the student's mind by exposing them to the "Ocean-wide opportunities" available for a Mechanical Engineer. The students were motivated to develop the skills required for this radically changing world.



Training - Sanko Gosei

"Sanko Gosei" is a leading automotive component manufacturer headquartered in Japan. Sanko Gosei offers different training modules to cater to industry ready engineers to the society. Our students attended the training for a week at their premises and were offered certificates for the training.

- Eight students of Final year Mechanical Engineering are undergoing implant training in Butterfly Pvt Ltd and in Bonfiglioli Pvt Ltd, Chennai.
- Mr. Arikrishnan, Mr. Emmanuel Raj and Mr. Prasath.R Final year students of Mechanical Engineering have started working with their project titled "Graphite extraction from used lube oil at Super Auto Forge.



Department of Mechanical & Automation

DEPARTMENT ACTIVITIES

Project Activities of Mechanical & Automation

1. Dinesh V, Jareshiah Samuel S, Raja Selvan R, Saran Raj R, Mohamed Asfar.A of II year M&A Department have sent a proposal on Wind energy based Electric car based on the theme zero carbon challenge.
2. Harinivas R M, Midhun G B, Sudhan Anandh, Vigneshwaran N, Vijay Narayanan N of II year M&A Department have sent a proposal on Eco friendly Electric cycle based on the theme zero carbon challenge.
3. Jareshiah Samuel.S, Nirmal Raj.M , Richard Rozario.A, Sudhan Anandh of II year M&A Department have been working on the Project Autonomous Drone meant for Central Warehousing Corporation Ltd (Food storage Godown) to eliminate the menace of encroachment of Bats.
4. Mohamed Asfar.A, Vigneshwaran N, Sudhan Anandh of II year M&A Department (3i Team) is designing a Low cost control seating system for vehicle(Forklift) meant for M/s.Ashok Leyland Limited.
5. Ajith Kumar.P, Mohanakrishnan, Roshan Ajit, & Shorn (Alpha Team) of III Year of M&A Department have submitted a proposal on "Smart Industrial Management using IOT (Mitsubishi Electrical Cup)" based on the theme Digital Industry through Smart Imagination and is being selected amidst tough competition among the five teams and uploaded online and registered for further process on 31.8.2018.
6. Raja Selvan R, Midhun G B, Harinivas R M, Vijay Narayanan N of II year M&A Department is embarked on a MSME Project "Compressed Air generation through Wind Mill" which is going to be utilized to feed our Sewage Treatment Plant of our college under the banner of PRIDE Activity.
7. Ajith Kumar.P, Roshan Ajit, Anbarasan.N & R.Karthik of III Year of M&A Department has sent a proposal for scrutiny on the Project (Neer) Titled "Drinking Water Extraction from Atmosphere" for AICTE Sponsored Chhatra Viswakarma Award.

Industrial Visit:



Industrial Visit:



Department of Mechanical and Automation Engineering has arranged an Industrial visit (IV) to TAFE, Pudupakkam (Tractors and Farm Equipment Limited) at 10.45 AM on 10.8.18 and 16.08.18 for a batch of 77 Students. The session started by visiting the manufacturing section where the crown wheel of transmission system was made in the soft crown machine cell. Then, the side pinion was made to be fixed in the gear system. The Machined soft crown wheel has been heat treated by grinding pinion followed by Thread grindings and lapping. All these comes under the heat treatment process. Finally the components were assembled in the gear transmission box in assembly section, where the spur gears were fitted in the epicyclical gear train.

Parents and Teachers Meeting:



Department of Mechanical and Automation conducted a Parent Teachers Meeting for the Academic year 2018-2019 on August 25th, 2018. Parents of the Students III and II year participated enthusiastically to know about their wards growth and developments. Mr.T.N.Sureshkumar, HOD addressed the Gathering and discussed the plans for the academic year. Class in charges briefed the parents about their wards academic performances

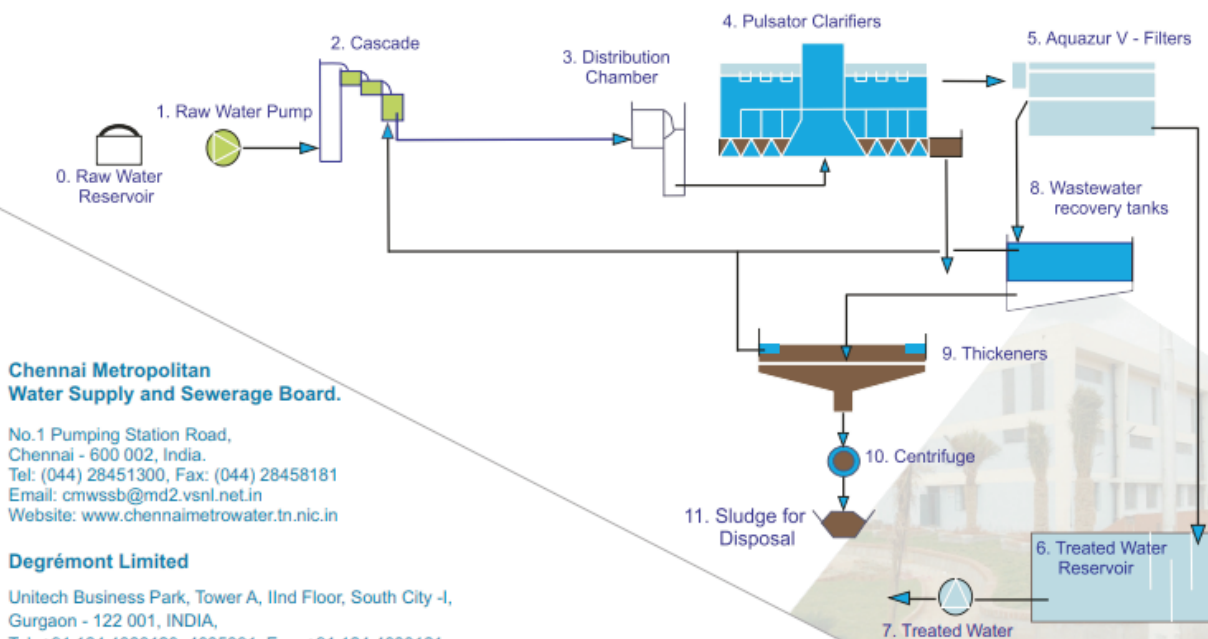
Department of Civil Engineering

Department Activities

Industrial Visit:

Department of Civil Engineering has arranged an Industrial visit for 32 students of III Yr Civil Engineering to chembarambakkam water treatment plant on 18.8.18. It is India's Second Largest Single Stage Water Treatment Plant. The session started by visiting the water treatment plant where the raw water is stored and pumped to the cascade system. From there students visited the Distribution chamber where the alum will be added to the water for flocculation

Treatment Process



Flow Chart of the water treatment plant at Chembarambakkam

Then the students moved to sand filter where the water is filtered and collected in the treated water reservoir. Then chlorine is added to the water and distributed to Chennai City.



Department Association Inauguration

Department of Civil Engineering inaugurated the Student Association function for the Academic year 2018-2019 on August 2nd, 2018 Thursday. President, Secretary and other Executive Committee Members of CEA were formally introduced to all the Civil Engineering fraternity of Agni College of Technology, Chennai.

In the meet, each member was assigned his/her roles and duties to be executed in Civil Engineering Association activities.

After completing the above process, Chief Guest of the Day delivered the Inaugural address to the August gathering.

Secretary of the CEA proposed the Vote-Of-Thanks.



Chief Guest Dr Deepak Kumar, Associate Professor IITM was felicitated by Professor S. Ramamoorthy Head Department of Civil Engineering, Agni College of Technology.

Tech Talk

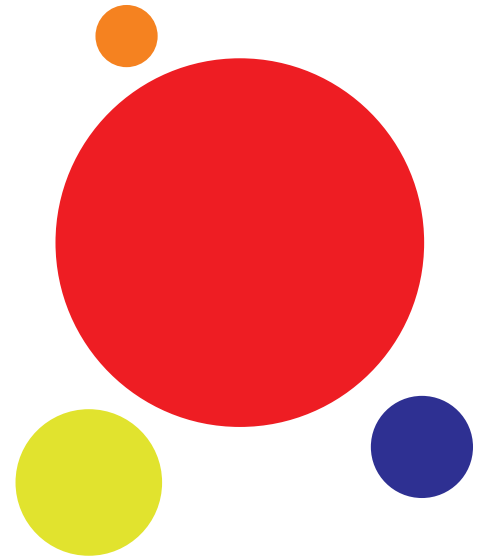
A Technical Lecture on “Structural Response Control using Non-linear Passive device” was organized by The Institution of Engineers (India) Kanchepuram, in association with the Department of Civil Engineering, Agni College of Technology on 2nd August 2018.

During the inaugural session, Prof S. Ramamoorthy, Head Civil Engineering Department welcomed the gathering. Dr. R S Kumar, Principal delivered the inaugural address and inaugurated the Technical Lecture.

Followed by him, Dr. Deepak Kumar, Associate Professor, IITM, delivered the guest lecture on Structural response control using non liner passive device.



Mr. S Aswin Kumar, Asst Professor proposed the vote of thanks. The main aim of the Technical Lecture was to understand the importance and create an in-depth knowledge about the Structural response control.



Agni College of Technology

Estd. in 2001

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