



# Agni College of Technology

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# JWALA

One Voice. One Choice

A Monthly Magazine of Agni College of Technology

[www.act.edu.in](http://www.act.edu.in)

ISSUE 5

OCTOBER 2018

For Internal Circulation Only



**Agni  
glows  
bright  
@**

**ACTioneering**  
**OCTOBER 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 space 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 fifth 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 fifth issue of our college magazine in order to show to the outside world, and also to remind the progress we have made in october 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



## New Entry in AI world [Site24x7, Product of Microsoft]:

Site24x7, the cloud-based performance monitoring solution for DevOps and IT Operations. The introduction of AI-powered Microsoft Azure monitoring as well as its chatbot integration with Microsoft Teams. Site24x7 chatbot for Microsoft Teams, DevOps and application owners will be able to get the health status of critical applications in their familiar workplace chat room.

Many organizations are adopting a hybrid cloud environment, creating the need to monitor a growing mix of both on-premises and multiple cloud infrastructure. Microsoft Teams empower users to collaborate, share critical documents, applications and communicate in real time. Site24x7's AI driven monitoring capability brings together developers, application teams and IT operations into a single efficient secure location in Microsoft Teams for quick problem identification all the way to resolution.

### **Site24x7's Azure monitoring leverages AI and automation to help IT teams with the following capabilities:**

Out-of-the-box support for 100+ Azure products covering Compute, Storage, Databases, Network, Analytics and Security. Site24x7's extensions in the Azure marketplace make it easy for IT teams to get in-depth visibility into processes and services running in Windows and Linux VMs.

Auto-recovery and fault tolerance: IT automation capabilities allow administrators to automate and recover critical resources without any human intervention.





# Penetration Testing

## INTRODUCTION:

Penetration testing, also called pen testing or ethical hacking, is the practice of testing a computer system, network or web application to find security vulnerabilities which an attacker might exploit. Penetration testing can be automated with software applications or performed manually. The main objective of penetration testing is to identify security weaknesses. Penetration testing can also be used to test an organization's security policy, its adherence to compliance requirements, its employees' security awareness and the organization's ability to identify and respond to security incidents.

Typically, the information about security weaknesses that are identified or exploited through pen testing is aggregated and provided to the organization's IT and network system managers, enabling them to make strategic decisions and prioritize their remediation efforts.

Penetration tests are also commonly referred as White Hat Hackers, implying that only good guys are attempting to break in.

## PENETRATION TESTING TOOLS:

Pen testers often use automated tools to uncover standard application vulnerabilities. Penetration tools scan code in order to identify malicious written piece of code embedded in an application that could result in a security breach. Pen testing tools examine data encryption techniques and can identify hard-coded values, such as usernames and passwords, to verify security vulnerabilities in the system.

### What features should a good penetration testing tool have?

Penetration testing tools should:

- be easy to deploy, configure and use
- scan a system easily
- categorize vulnerabilities based on severity, i.e., those that need to be fixed immediately
- be capable of automating the verification of vulnerabilities
- re-verify previously identified exploits generate detailed vulnerability logs and breach reports.

## Some of the most useful free open source penetration testing tools:

The Metasploit Project is an open source project owned by Rapid7, which licenses full-featured versions of the Metasploit software. It is a collection of popular pen testing tools that can be used on servers, online-based applications and networks. Metasploit can be used to uncover security issues, to verify vulnerability mitigations and also to manage security processes.

Nmap, short for "Network Mapper," is a port scanner that scans systems and networks for vulnerabilities linked to open ports. Nmap is directed to the IP addresses on which the system or network to be scanned is located and then tests those systems for open ports. In addition, Nmap can be used to monitor host or service uptime and map network attack surfaces

## Elon Musk's Solar Roof Glass Tiles – Beautifully Cheaper:



Elon is once again making waves, generating lots of buzz with the reveal of Solar City's solar roof tiles. Made of glass and exceptionally durable, these energy generators are slated to begin production in mid-2017 and

are supposed to be cheaper than your current roof. While scarce on details, we're speculating that this is based not on the initial cost – but on the fact that they're supposed to last twice as long and generate power while they sit there and look pretty. So we don't have cost numbers and, honestly, much else is there to go on except buzz from the SolarCity website and a 19 minute TED - talk style presentation that Elon is famous for.

*"The goal is to have solar roofs that look better than a normal roof, generate electricity, last longer, have better insulation, and actually have a lower installation cost than a normal roof plus the cost of electricity."*

Musk said during presentation at Universal Studios in Los Angeles, California,

*"The solar roof consists of uniquely designed glass tiles that complement the aesthetics of any home, embedded with the highest efficiency photovoltaic cells."*

**We're to expect four styles of solar roofing, suitable for various architectural styles:**

1. Slate Glass Tile
2. Smooth Glass Tile
3. Textured Glass Tile
4. Tuscan Glass Tile

Because these tiles were fully integrated into the roof, many of the journalists attending the event wasn't able to identify them. These are the technology that the world needs during its transition to renewable and self-sustaining energy sources while adding luxury to home. Perhaps the only people who were not happy about the announcement are the conventional building and electricity generating companies, but that's a whole another story.



## Home Batteries

Solar energy is wonderful, but at night there isn't any "solar" to go around. To meet this challenge, the electricity generated during the day needs to be stored somewhere. Of course we could sell it back to the electric company through smart meters to the grid, but batteries are at the heart of Musk's solar plans. His latest product iteration, the Powerwall 2, is a floor or wall mounted pack that can be mounted inside or outside and weighs in at a reasonable 269 pounds. Aside from the obvious money savings that come along with generating and storing your own power, the idea of being able to do this off grid opens doors for rural homes in underdeveloped countries which possess feeble electricity generation and distribution infrastructure.

## Acquisition of Solar City

Elon doesn't actually own Solar City. He is trying to make the case to Tesla investors that a merger with the solar roof company is a good investment. This whole idea is rather controversial because Elon is both chairman and the single largest financier of Solar City. We'll know more, when Tesla plans to *"create a clear picture of how a combined Tesla and SolarCity will make solar and storage as compelling as electric vehicles."*

## Sow good things in your heart





## New Entry in AI world [Site24x7, Product of Microsoft]:



### Arduino based multi axis solar tracker:

Name: Mr. Kesavan N EEE (IV YEAR)

Article: Arduino based Solar Tracker

#### Abstract:

With the impending scarcity of non-renewable resource, during recent years, the main source of energy such as the oil and coal are exhausting at faster rates. This paves new opportunities for renewable energy resources without cutting neither cost nor efficiency.

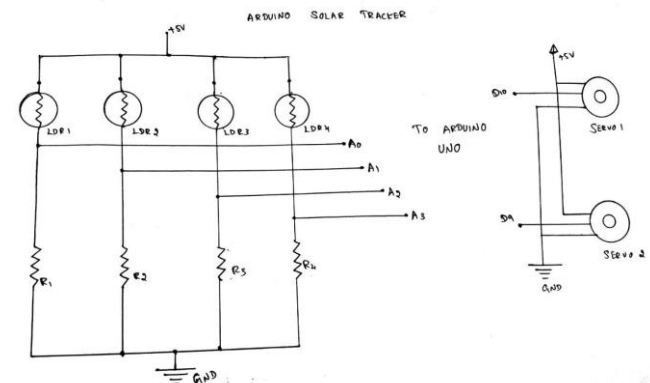
Solar energy is the most abundant of all renewable resources and it's comparatively easy to convert it to electrical energy. Use of solar panel convert sun's solar energy into electricity is very popular, but due to transition of the sun's path from east to west, the fixed solar panel may not be able to generate optimum energy. The proposed system solves the above problem by implementing an arrangement for the solar panel to track the sun radiation.

This project is basically use of solar panel and coupled to a stepper motor to track the sun radiation so that maximum sun light is incident upon the panel at any given time of the day. This is better efficient when compared to fixed panel method. Moreover, the code is written using C++ and target specific to Arduino UNO controller.

Solar energy is fast becoming a very important means of renewable energy resource. With solar tracking, it is even more possible to generate more energy since the solar panel can maintain a perpendicular profile to sun's incident radiation. Even though the initial cost of setting up the tracking system is considerably high, there are cheaper options that have been proposed over time. This project discusses the design and construction of a prototype for solar tracking system that has a single axis of freedom. Light Dependent Resistors (LDRs) are used for sunlight detection.

The setup is programmed to detect sunlight via the LDRs before actuating the servo to position the solar panel. The solar panel is positioned where it is able to receive maximum light. As compared to other motors, the servo motors are able to maintain their torque at high speed. They are also more efficient with efficiencies in the range of 80-90%. Servos can supply roughly twice their rated torque for short periods. They are also quiet and do not vibrate or suffer resonance issues. Performance and characteristics of solar panels are analyzed experimentally.

#### CIRCUIT DIAGRAM:

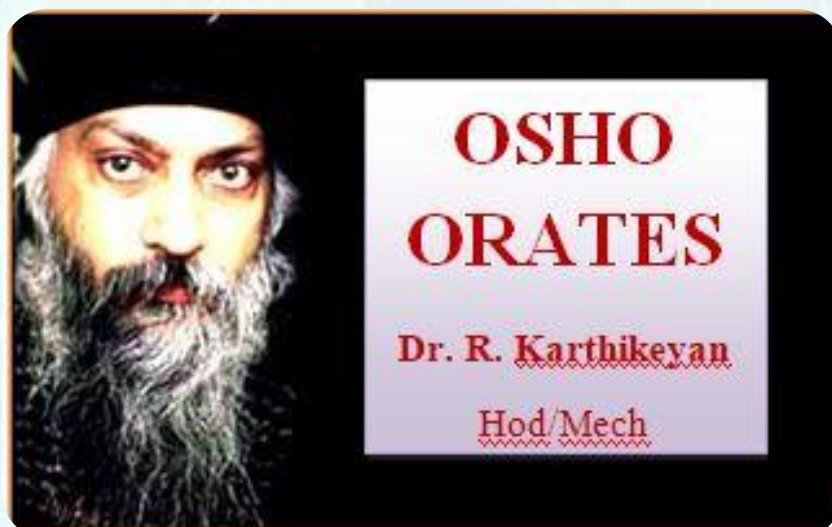


Solar cells produced an efficiency of 20% for the first time in 1985. Whereas there has been a steady increase in the efficiency of solar panels, the level is still not at its best. Most panels still operate at less than 40%. As a result, most people are forced to either purchase large number of panels to meet their energy demands or purchase single systems with large outputs. There are types of solar cells with relatively higher efficiencies tend to be costlier.

One of the ways to increase the efficiency of solar panels while reducing costs is to use tracking. Through tracking, there will be increased exposure of the panel to the sun, making it generate increased power output. The trackers can either be dual or single axis trackers. Dual trackers are more efficient because they track sunlight from both axis.

A single system was used. It is cheaper, less complex and still achieves the required efficiency. In terms of costs and whether or not the system is supposed to be implemented by those that use solar panels, the system is viable. The increase in power is considerable and therefore it is worthy of the increase in cost. Maintenance costs are not likely to be high while tested.

## OSHO ORATES



Some people just want to experience only the lighter part or the brighter side of life. They fear facing the other darker side of life, which they fear, might be a tough task for them. Osho, here states that, one must experience both the lighter and the darker sides of life, because that is the place or time, when they learn and get experienced to become a better person. Experience is what defines an individual, it is what lifts a person and makes him or her an individual. Hence when we experience both the sweet and the bitter times of our life, it is what makes us to be a good and well-experienced individual.



## Research Frontiers in Mechanical Engineering

Often a student thinks that what can I do after doing this course or after learning that subject and he tries to find what's happening at the cutting edge. In this article we have cherry-picked a few areas related to mechanical engineering which are at unprecedented growth as of now. Students can indulge in projects related to those areas to really sharpen their skills and to understand how their coursework fits into the bigger picture of industrial advancement. It is impossible to cover every frontier of research in field of mechanical engineering in this small article but nevertheless let's begin our journey.

### 1. Computational Fluid Dynamics

CFD is currently a very fast-growing field in mechanical engineering with its application in areas from simulations of gas turbine and rocket engines to studying of flow in blood vessels. This field requires a multidisciplinary knowledge of Computer Science, Numerical Methods and Mechanical Engineering (Obviously!).

Research in this field is now primarily focused on more accurate numerical schemes and algorithms to solve Navier-Stokes equations. Researchers are working on development of more sophisticated turbulence models. To give more natural look to special effects related to fluid flow (Like smoke, flood) used in sci-fi movies researcher are working on improving image processing based on CFD data. More info on this can be found at [Making Animated Fluids Look More Realistic](#). Students can indulge with the faculty working in similar areas to get a gist of this field.

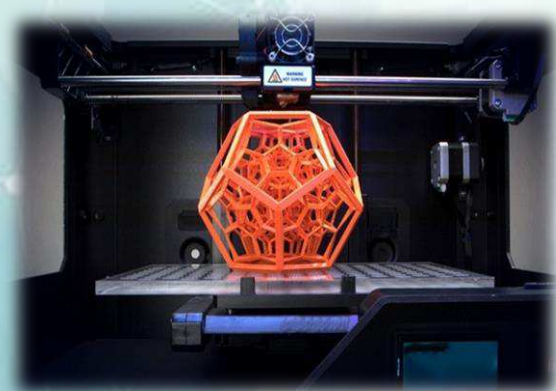


### 2. Microfluidics

The field of micro-fluidics is quite a new field on this horizon of mechanical engineering. This area deals with the study of behavior, control and manipulation of fluid flows happening at

relatively small geometrical scales. It is multidisciplinary field at the intersection of mechanical engineering, theoretical physics, electronics, biotechnology and nanotechnology with its application in developing more efficient medical devices, clinical pathology etc. Recently researchers are working on development of more efficient heat transfer mechanisms using microfluidic structures.

### 3. Additive Manufacturing



As it is evident from the name itself, Additive manufacturing is the technique in which a product is manufactured by adding very thin layers of material one by one. Companies like General Electric, Boeing, Rolls Royce are in a race to gain edge in this field of additive manufacturing which have a potential of completely revolutionizing the way we manufacture our cars, jet engines, aircraft etc.

Students interested in manufacturing sector as well as pursuing a career in R&D should consider this field of **ADDITIVE MANUFACTURING TECHNOLOGY**.

### 4. Composites

The new Boeing-787 Dream-liner is revolutionary plane which is much more efficient than its previous iterations mainly because it is made of composite materials rather than conventional aluminium. The area of composites is promising new heights to the whole sector of design and manufacturing. Researchers all over world are working on development of new composite materials that can withstand extreme stress and temperature. Students with good background in material science should consider career pursuing this field.



### 5. Robotics

Whenever name of scientific advancements comes into our mind somewhere or the other, we think about robots and autonomous machines. It is such a fascinating field that almost



every engineering student have thought of working in it at one point or another in his life. This is an multidisciplinary field involving skills from computer science, mechanical and electronics engineering. Students can work on the projects related to design of mechanisms, feedback and control systems and information processing etc.

We hope that this article provides you a comprehensive view of areas in which you can work to improve your skills and to better enjoy your courses. Again, this is just tip of the iceberg, apart from above you can look for areas like propulsion, acoustic, vibrations, control systems, Bio-mechanics etc.

## Impact of Automation in India

A quarter of people losing their jobs because of automation by 2021 will be from India, according to research by human resources (HR) solutions firm People Strong.

"These job cuts due to automation will not happen immediately, but the impact will become prominent by 2020. The change has started, with companies introducing bots for customer service, managing warehouse, etc.," said Pankaj Bansal, co-founder and CEO, People Strong.

According to the company's research, India make up to 23% of jobs to be lost to automation globally by 2025.

"As the world gets more competitive, as

manufacturing gets more competitive, it will use more automation, robotics, technology," said Sunil Kant Munjal, chairman of Hero Corporate Service Pvt. Ltd and former joint managing director of Hero MotoCorp Ltd, India's largest two-wheeler company.

Information technology (IT), IT-enabled services (ITeS) and security services, followed by banking, will be the first sectors to feel the heat, wherein manual transactions and processing jobs will become obsolete. Huge numbers of services jobs in these sectors will be made redundant as a few lines of code will be able to perform the same tasks efficiently and effectively.

But IT industry veteran T.V. Mohandas Pai says concerns over job cuts stemming from automation are being exaggerated. "Impact will be felt where the jobs cost the highest in the next 10-15 years. If India grows at 8% a year, with a labor productivity increase of 1.5% a year, jobs should grow at a rate of 6.5% a year. With automation, jobs may grow within a band of 4-5% a year for the next 10 years," said Pai, former human resources head at Infosys Ltd and chairman of Aarin Capital. More than job cuts, new job creation is a big concern for India. generated at a slower pace than the economy's growth rate. "Overall, India will not see job losses as much as a slower growth of jobs.

Jobs will be generated at a slower pace than the economy's growth rate. "Overall, India will not see job losses as much as a slower growth of jobs, compared to GDP," Pai said.

Going by the 2017 World Employment and Social Outlook report released by the International Labor Organization in January, India has something to cheer about. According to the 2016 statistics, a major share of the 13.4 million new jobs created in South Asia was in India.



However, the same says that unemployment in India might go up from 17.7 million in 2016 to 17.8 million (in 2017) and 18 million a year later.

Creating more opportunities for the unemployed will be crucial. Strengthening "the mid-market segment in India to create more jobs and re-skilling the workforce to take up the new jobs which will be emerging" are vital, said People Strong's Bansal.

## **HYPERLOOP – Futuristic Transportation of Present**

A hyper loop is a sealed tube or system of tubes through which a pod may travel free of air resistance or friction carrying people or objects at high speed while being very efficient.

The Hyper loop concept operates by sending specially designed "capsules" or "pods" through a steel tube maintained at a partial vacuum. Each capsule floats on a 0.02–0.05 in (0.5–1.3 mm) layer of air provided under pressure like air caster. An air caster is a pneumatic lifting device used to move heavy loads on flat, non-porous surfaces. It uses a thin layer of air as a way to float a very small distance off the ground. Compressed air enters an airbag shaped like a torus, and when the bag is filled it creates an airtight seal with the ground, and forces more air into the center of torus, eventually causing the air to flow over the bag and to raise the load above the ground



In the alpha-level concept, passenger-only pods are projected to reach a top speed of 760 mph (1,220 km/h) to maintain aerodynamic efficiency.



Hyper loop Transportation Technologies, America are in process to sign a Letter of Intent with the Indian Government for a proposed route between Chennai and Bengaluru. If things go as planned, the distance of 345 km could be covered in 30 minutes. HTT also signed an agreement with Andhra Pradesh government to build India's first Hyper loop project connecting Amravati to Vijayawada in a 6-minute ride. On February 22, 2018, Hyper loop One has entered into a MOU (Memorandum of Understanding) with the Government of Maharashtra to build a hyper loop transportation system between Mumbai and Pune that would cut the travel time from the current 180 minutes to just 20 minutes.

## How to become famous in 15 seconds?

- Lisa and Lena, Germany-based twins, have about 31.5 million fans.
- Loren Gray, American-based YouTube personality and the 2016, 2018 Teen Choice Nominee, has about 29.4 million fans.
- Perth-based twins, Contestants on Australia's Got Talent, Teagan and Sam Rybka, have about 4.4 million fans.

In an app, TikTok!

### **TikTok!**

Oh! The name which brings a glee to your face! Ha! The Forum which makes you become your famous avatars like, Super Star, Ulaga Nayagan, Thalapathy, Thala, Little Super Star, right until our very own Makkal Selvan. The app rejuvenates the actor in you, by making us enact the famous dialogues and gestures from our cine world, for a span of 15 seconds.

This app was originally developed by Chinese under the name of "Douyin" which literally translates as 'vibrato short video'. The app allows users to create dance, music, lip-sync, beauty, trend, food, and pet videos, which can be extended up to 60 seconds long. It is a social media app which is vital in creating and sharing videos and also for live broadcasting. It was launched in 2016 by ByteDance which is a short film platform in Asia. The app is now global over 150 countries with more than 500 million users.

On 23<sup>rd</sup> January 2018, it was ranked #1 among the free mobile app downloads in Thailand. This app was originally established as Musical.ly but on 9<sup>th</sup> November 2017, ByteDance spent a huge sum of \$800 million to form TikTok.

Not only are the general population, even the people from tinsel town active TikTok-ians. Actress Varsha Bollamma, for instance, had done a few movies before the dubsmash rage

set in. However, she was noticed more after some of her videos went viral and people commented on her likeness to Nazriya Nazim.

TikTok has its own ups and downs, it also proves to be a bane at times. As all technologies, if we hold an el maestro to all our technological advancements, we can be still in control and not allow them to take control of us.

## **Interview Etiquette's and People skills**

A job interview is not a test of your knowledge, but your ability to use interpersonal skills it at the right time, thereby pushing you to the next step in a recruitment process.

### **1. Be on time.**

Devise a punctual plan with an anticipation of hurdles to minimize any delays. If any delay occurs, phone ahead and explain the situation while stating you will get there as soon as possible.

### **2. Greet the interviewer with a firm handshake.**

A constructive first impression is very important. When shaking the interviewer's hand, it is vital to have direct eye contact while also smiling courteously. You will come across as assertive and composed.

### **3. Stay calm.**

Feeling anxious and nervous is normal in an interview, the key is being able to control it. It helps to think and deliver your answer clear and crisp.

### **4. Listen carefully and take your time answering.**

Take a moment after a question to think about what is being asked and how best to answer it before replying.

### **5. Don't get carried away.**

It is important to provide a full response to the question asked. However, it is also important not to speak for longer than is necessary or to go off topic.

### **6. Ask for a question to be repeated or explained if necessary.**

This will give you both more time to think about your response while also getting a better insight into what type of answer the interviewer seeks.

### **7. Give responses that are clear, relevant and provide sufficient information.**

It is important the interviewer understands the point you are trying to make. Keep to the point by providing a clear understanding of the topic.

### **8. Highlight skills and experiences in a positive manner.**



Link your responses to previous experiences when possible while highlighting how your actions generated positive outcomes.

## 9. Don't panic.

You might get a question you haven't anticipated. If you answer it poor don't dwell over it. Your success will not depend on one answer but on your overall performance.

## 10. Thank the interviewer for the opportunity and add how much you would like to work for the company.

This will leave the interviewer with a positive impression. Passionate individuals work hard and perform better and this is what employers are looking for.

# DEPARTMENT OF BIOMEDICAL ENGINEERING

## Student Activities

- Technical Training was conducted by Siemens for the Final year students from 03.10.2018 to 5.10.18. Mr.Jaya Kumar-Team Leader Mr.Swaminathan- Product Application Engineer and Mr. Anand-Service Engineer were the resource persons. Students gained practical knowledge on imaging modality (CT and MRI) and ultrasound imaging and servicing of ultrasound machine.



- Industrial visit to SRM Hospital is arranged for final year students on 14.10.18. Students visited the hospital along with Mr.Mukesh, AP/BME.

- Final year students Mr.Manikandan, Mr.Prabudevan, Mr.Sabrigrivasan, Mr.Tamil Selvan and Mr.Sivasubramanian attended the B Braun India interview at company premises for the post of Quality Control Engineer on 12.10.2018.



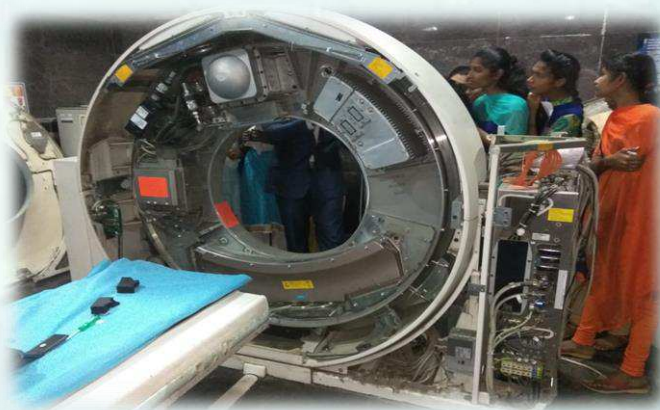




- Mr.Ruthraprasath participated in the State Level Competition for Silambattam from 26.10.2018 to 28.10.2018.

### Faculty Activities

- N.Sweatha/AP/BME attended a one day workshop on 26.10.18. She gained knowledge on intrinsic safety principles, surges, electromagnetic compatibility and standards for intrinsic safe instruments.



## DEPARTMENT OF CHEMICAL ENGINEERING

### Student Activities

- Mr.Akshay, Mr.Jaya Pravin, Mr.Sivakumar & Mr.Bharath of II Year Chemical Engineering were shortlisted for next level of presentation in Zero Carbon Challenge organized by IIT, Chennai.

### Other Activities

#### MOU :

Bioneemtec has signed an MOU with Agni College of Technology on 15.10.18. This MOU focuses on collaborative project proposals, industrial visits, implant training and project work for the students.







Mr. Shanmugasundaram, Mr. Vasagam, officials of CLRI, Training & Planning Division visited the college on 12<sup>th</sup> October, 2018 to discuss on implant training, projects and training to students across various disciplines.

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Placement:

- 21 ECE students were placed in TCS, ABE Semiconductors, Future General Insurance, Entrayn Education Technologies and Hakuna Matata. The recruitment was done on 4<sup>th</sup>, 5<sup>th</sup>, 10<sup>th</sup>, 15<sup>th</sup>, 20<sup>th</sup> and 23<sup>rd</sup> of October 2018. The CTC range was 1.2 LPA to 3.36 LPA.

### Student achievements:

- Mr. Aravind Sagar V.G. from III ECE A won second prize in "AGE OF DRONES" conducted at VNR Vignana Jyothi Institute of Engineering and Technology, Bangalore on 5<sup>th</sup> and 6<sup>th</sup> of October.
- 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) are doing a project for AICTE Chatra Vishwakarma Award.
- 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) are doing a project for "Mitsubishi Electric Cup" guided by Mr. T. Rajasekar.
- Mr. Sherbin from IV ECE C won "Best Student Award" on 12.10.2018 from Institution of Engineers (India), Students' Chapter, Kancheepuram Local Centre.

## Faculty & Student Activities

- Mr. Sherbin, Ms. Jegapriya, Mr. P. Arun and Ms. Priyadharshini Babu from IV ECE and III ECE submitted project proposal titled “IoT Based Solar Powered Automatic Irrigation System” to e-Yantra Lab under the guidance of Mr. T. Rajasekar.
- Mr. Hemantharajan V, Mr. T. Ariharan, Mr. B. Elangovan and Mr. S. Balaji from III ECE and II ECE submitted project proposal titled “Tumble Wheel” to e-Yantra Lab under the guidance of Mr. J.P. Josh Kumar.
- Ms. Maria Tamilannam, Ms. Elavarasi and Ms. Priyanka D.J. from IV ECE submitted project proposal titled “Design a wonder drone for the environmental protection” to GYTI under the guidance of Mr. M. Arun Kumar.
- Ms. Sangeetha, Ms. Vignayal and Ms. Srilekha from IV ECE submitted project proposal titled “Agriculture Drone for Sowing Seeds” to GYTI under the guidance of Mr. M. Arun Kumar.
- Ms. Yogitha, Ms. J. Aswini, Mr. Yuvaraj, Mr. P. Arun and Mr. Mano Lakshatha Srinivasa Moorthy from III ECE doing a project to TRUKEM on “Laser Security System From Drum” guided by Mr. T. Rajasekar.



- Mr. ArjunGandhi, Ms. R. Gayathri, Mr. Gurusamy Kumar, Ms. Priyanka J. Mr. Mathanagopal, Mr. Prabhu, Mr. Vadivel, Ms. Sindhuja D., Ms. Swetha K. and Ms. Tamil Oviya T. from IV ECE visited EDAC on 23.10.18.
- About 390 ECE students registered for TCS Inflamed.
- About 80 ECE students registered for Wipro.

## Alumni visit:

- Mr. Sureandra from 2003 to 2007 batch visited our college. Currently he is working in Tata Consultancy Services, Velachery, Chennai, as a Team Leader.



## DEPARTMENT OF INFORMATION TECHNOLOGY

### Placement:

- Ms.S.Pooja Roy of Final Year got placed in TCS as Assistant System Trainee with CTC of 3.36 LPA.
- Ms.Priyadharshini of Final Year got placed in Entrayn as Agency Dealer with CTC of 2.8 LPA.
- Ms.Suhasini, Ms.Sethupriya, Ms.Voormisha, Ms.Athulya Jeyakumar of Final Year got placed in Future Generalia as Agency Dealer with CTC of 4.5 LPA.

### Alumni Talk:

- Ms.Niveditha of Batch 2012-2016 working as HR in CAPEGEMINI gave a thought provoking speech on "On campus Placement Cracking tips and its importance" to III year & IV year Students on 30-OCT-2018.



## DEPARTMENT OF MECHATRONICS ENGINEERING

### SEMINAR ON INDUSTRIAL ROBOTICS

- One day seminar on "Industrial Robotics" sponsored by The Institution of Engineers (India) was organized by Department of Mechatronics on 17.10.2018. The main aim of the seminar was to understand Robotics



- The seminar was inaugurated by Principal Dr.R.S.Kumar and Dr.Srinivasan Alavandar, Dean Academics. Their valuable address expressed the importance of Robotics.
- The Guest of honors Mr.Gokul Chandrasekaran highlighted the need of the hour through his thought provoking speech. Head of the Department Dr.M.Prince, Department HODs and Faculty members graced the occasion with their presence.
- The session was handled by Mr.Gokul Chandrasekaran.



## ALUMNI VISIT

- Our Alumni of 2014-2018 batch Mr.Srinivasan.K working in ProPass Technologies, Chennai addressed our Mechatronics students and shared his ideas and experiences on 08/10/2018.
- Our Alumni Vishnudharan.B working in Indium Software addressed our II year Mechatronics students and shared his experiences on 07/09/2018.





## Faculty Activities

- Mr.S.Karthikeyan attended a one day National Workshop on “Unexplored areas in combustion and Research opportunities” Organized by VIT University on 31/10/18.
- Mr. S.Karthikeyan published a paper on a title “Bio Oil Produced from Paper Waste and Paper Cup Using Pyrolysis Process” in an International Journal of Mechanical and Production Engineering Research and Development in the month of October, 2018.

## Student achievements:

- P.J.Gurukailash from IV year Mechatronics won the Second Place with Rs.10,000 Cash Prize and Certificate in “Convergence 2K18” in “Drone Racing” Conducted at VNR VJIEET, Hyderabad on 5.10.18 & 6.10.18.
- P.Ramkumar III year Mechatronics participated in Annual Open Tournament and Won Best Player Award in the National Level Ball Badminton tournament held at Anna University on 28.10.18



## Placement:

- Final year students Mr.Dinesh D, Mr.Sakthimurugan R, Mr.Sangeetha S, Mr.Santhosh P, Mr.Suresh T, Mr.Yugendran K V, and Mr.Harikrishna R got placed in Technijia as a Trainee with a package of 1.2 LPA on 6.9.18.
- Final year students Mr.Rukesh Prasanaa P K got placed in Future General Total Insurance Solutions Company Pvt Ltd as a Agency Organizer with a package of 1.8 to 4.15 LPA on 23.10.18.

Final year students Mr.Khamrudeen J, Mr.Suresh T got placed in E-Quad Engineering Services as a Trainee with a package of 2 LPA on 23.10.18.

## DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

### Faculty Activities

- Mr. Yoganand.S published a paper entitled on “Notification in Case of Emergency (NICE)-“An Android App Provides Total Security For Humans” in Journal of Universal Review, Vol No.7, Issue No.X

## Placement:

- Ms.Dhivya. K , Ms.Kowsalya.K and Ms.Indumathi.A were placed in Tata Consultancy Services (TCS) as Software Engineers with a CTC 3.36 LPA



**Ms. Dhivya K.**



**Ms. Kowsalya K .**



**Ms. Indumathi A.**

- Ms.Evangeline C, Ms.Gokulakrishnan V, Ms.Terintittu R, Ms.Sivasankari S. were placed in Entrayn Education Technologies as Junior Executive Sales Officers at On-Campus, with CTC 2.25 to 3.5 LPA.



**Ms.Evangeline C.**



**Mr.Gokulakrishnan V.**



**Mr.Terintittu R.**



**Ms.Sivasankari S.**

- Mr.BanuKiran E, Mr.Lokesh S, Mr.Balaji K were placed in Future General total Insurance Solutions as Agency Organizer at On-Campus, with a CTC 1.8 LPA.



**Mr. BanuKiran E.**



**Mr. Lokesh S.**



**Mr. Balaji K.**