



# Agni College of Technology

Approved by AICTE / UGC, New Delhi, Accredited by NBA, Affiliated to Anna University, Chennai.  
ISO 9001:2015 Certified Institution.



# JWALA

One Voice. One Choice

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

ISSUE 4

A Monthly Magazine of Agni College of Technology

SEPTEMBER 2018

For Internal Circulation Only

Agni  
shines  
bright..



ACTIONEERING

# SEPTEMBER 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.

## Inside Jwala

Sl.No	Table of Content	Page
1	Principal's Desk	3
2	Agni Anthem	4
3	First Year Inauguration	5
4	Graduation Day	6
5	Teachers Day	7
6	Sow good things in your heart	8
7	Arduino based multi axis tracker	9
8	Osha Orates	10
9	Research Frontiers in Mechanical Engineering	11
10	Impact of Automation in india	13
11	Hyerloop-Futuristic Transportation of Present	14
12	TikTok	15
13	Interview Etiquette and people skills	16
14	Department Of Biomedical Engineering	17
15	Department of Chemical Engineering	18
16	Department OF Electronics& Communication Engineering	19
17	Department of Information Technology	21
18	Department of Mechatronics Engineering	21
19	Department of computer science and Engineering	23



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.

Patrons

Mrs. Bhavani Jayaprakash, Chairperson  
Mr. Syed MunirHoda, Hon. Advisor  
Mr. Janardhanan Menon, Director

Editor in Chief

Dr. R.S. Kumar, Principal

Editor

Dr. M. Prince, HoD, Mechatronics

Sub Editor

Mr. R. Deepak, Dept of Mechatronics

Graphics Editor

Mr. R. Vinoth , Dept. of IT

Staff Editors

Ms. R. Durga, Dept. of IT  
Ms. C. Thanga Saranya, Dept. of ECE  
Mr. Amit Singh, Dept. of Chemical  
Ms.K. Deepika , Dept. of CSE  
Mr. S. Vinoth , Dept. of EEE  
Mr. P. Rajan , Dept. of Mech  
Ms. D. Pinky , Dept. of Mechatronics  
Mr. A. Hari Prakash, Dept. of M & A  
Mr. S. Athenna Pandiyan, Dept. of BME  
Mr. Sanjiv Mohanty, Dept. of Civil  
Ms. Hema Malini, Dept. of S&H

Student Editors

Mr. S.K. Lakshmanan, IV MHT  
Mr. J. Khamrudeen, IV MHT

Reporters

Mr.V.Dhinakaran, IV EEE  
Mr.Vishnu Shaji, III Mech  
Ms.P.Prasannavadhani, III ECE  
Mr.Roshan Ajit, III M&A  
Mr.Karthick, III IT  
Mr.S.Mohammed Thalif, III CME  
Mr.K.Akash, III BME  
Mr.E.Karan, III MHT  
Mr. Antony John, III MHT  
Ms.S.Shruthi, II ECE  
Mr.V.Rohit, II ECE

Student Designers

Mr. B. Akaash Jaikumar, III IT  
Mr. A. Monish Anand, III IT  
Mr. E. Vetri, II IT  
Mr. G. Nagaraj, II IT  
Mr. P. Bala Kumaran, II IT



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 sprit 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 fourth 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 fourth issue of our college magazine in order to show to the outside world, and also to remind the progress we have made in September 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



# Agni shines at



Shathish Kumar D  
IT

Jayesh Ramesh  
MECH

**SALARY PACKAGE: 10 LPA**

## A success well deserved, an occasion worth celebrating!

Two of our students got placed at Think and Learn Pvt.Ltd (BYJU's) with a salary package of 10 LPA. It is India's largest Ed-tech company and the creator of India's largest K12 learning app which offers highly adaptive, engaging and effective learning programs for students in classes 4-12 (K-12) and competitive exams.

## AGNI'S IMPRESSIVE DEBUT AT IDBI BANK



- |                       |                      |                  |                      |
|-----------------------|----------------------|------------------|----------------------|
| Balakumar R           | Pasupathy V          | Priyanka J       | Madhanraj A          |
| Kalaivani M           | Pratheeyanga M       | PriyaTharsini S  | Vishal R             |
| Subhashini P          | Ramya D              | Ragul R S        | Raghavendra B        |
| Tamilvendhan P        | RathishRahul N       | Sasikumar D      | Manikandan K         |
| Balaji K              | Archana R            | ShanmugaSundar A | Umalnath T           |
| EdupugantiBhanukiranE | Amsaveni V           | Sugumar D        | CatherinNivetha A    |
| Evangeline C          | Buvanewswaran B      | Srileka N        | Lavanya S            |
| MeenakshiSundaramM    | Deepika S            | Sulosanee B      | Moulika R            |
| Ritish K              | Elavarasan M         | MohamedThoufik S | TamilSelvam S        |
| Srinidhi K            | Kamesh G             | PradeepKumar H   | DeepakKumar R        |
| TerinTittu R          | Karthikeyan K        | NaveenKumar      | SadineniSrinivasaRao |
| Aniruth R             | Kirubhakaran M       | Purusothaman B   | ShathishKumar D      |
| Belsin T              | NagaSankarSanthosh L | Rhaghav M        | SumanRaj V           |
| Karthick S            | Pavithra K           | Kalki RV         | Vignesh R            |
| Kutraliswaran T       | PradhipKumar A       | Surendhar S J    | Priyadarshini J      |

**SALARY PACKAGE : 5.76 LPA**

DBI Federal Co Ltd, an Indian development and commercial bank, one of India's leading private sector banks visited us for an on campus recruitment drive on 12<sup>th</sup> of September 2018. Sixty students were selected with a salary package of 5.76 LPA.

## AGNI MARKS ITS PRESENCE AT WORKSBOT APPLICATIONS



Vishal Vaibhav and Venkatachalapathy- Mechanical  
Bincy Emagline - ECE  
Pooja Roy- IT

**SALARY PACKAGE : 2 LPA**

An On campus drive was arranged for Worksbot on 18<sup>th</sup> of September 2018 at the college premises. Worksbot Applications, a software company that uses tools and software's to simulate a human conversation, allows businesses to deliver interactive experiences that help in customer engagement and creating excellent Engineering Designs selected four students for a career in their organisation with a salary package of 2 LPA.

SEPTEMBER 2018



www.act.edu.in

## Agni glows bright at



SHERBIN W	ECE
SATHYANARAYANAN G	ECE
ARJUN GANDHI B	ECE
KAVITHA	ECE
KAVIYARASI. V	ECE
ANAND. K	ECE
PRIYA THARSINI	ECE



**SALARY PACKAGE: 1.2 LPA**

**A**BE Semiconductor Designs is a leading company in Chennai and engaged in manufacturing and supplying of Robotic Machine, Embedded System, Vehicle Display System, Tracking System and many more.

The company had conducted an on campus recruitment drive on 20<sup>th</sup> of September 2018. Seven of our students were selected with a Salary package of 1.2 LPA.

**T**en of our students were selected for a career in Healthwatch Telediagnosics, a specialized International healthcare outsourcing and Home diagnostic service company by CHC with a salary of 1.62 LPA.

www.act.edu.in



SARAVANAN. S	BME
TAMIL SELVIM. S	BME
SABARIGIRIVASAN. R	BME
RANJITH. R	BME
SANTHOSH. P	MCT
KHAMRUDEEN. J	MCT
SOWDARYA. K	BME
PRIYANKA. S	BME
YOGASHALINI. V	BME
DIVYASRI R. M	BME

**SALARY PACKAGE: 1.62 LPA**

## Agni's promising entry into



www.act.edu.in



Sugumar. S	ECE	Archana. R	ECE
Preethi. S	ECE	Karthikeyan K	ECE
Priyanka. J	ECE	Priyadharshini	
Kirubhakaran. M	ECE	Gunasekaran	BME
Aravind. M	ECE	Minaz Tanweer	CSE
Kamesh	ECE	Mahendran. A	BME
Divakar. K	ECE	Bhuvanendran. S	Civil
Ganesh. R	ECE	Barani. G	EEE
Pradhip Kumar. A	ECE	Aniruth. R	EEE
Sathish Kumar. V	ECE	Shyam Prasath S	Mech
Mohamed Thoufik. S	ECE	Arun Karthik B	CSE
Kaaviyashree. K	ECE	Antony infant M	CSE
Swetha. K	ECE	Praveen P	Mech
Nivedha. L	ECE	N Yogeshwaran	Mech
Pavithra. K	ECE	Jayapraveen B	CSE
		VinothKumar N	Mech

**SALARY PACKAGE: 3.08 LPA**

**J**ust dial, India's local search engine, provides best deals, shop online, ticket booking for flights, hotels, movies, buses and cabs had selected 30 students with a salary package of 3.08 LPA in the placement drive conducted on 27<sup>th</sup> September 2018.



www.act.edu.in

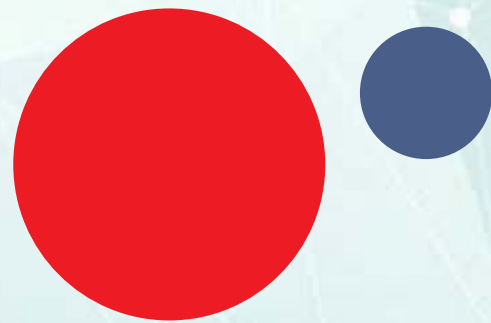
## AGNI'S PROMISING ENTRY INTO IEQS GROUP

Rajesh.S	Mech	Pradeep.M	Mech
Ramesh.G	Mech	Anandhakumar. M.S	Mech
Ramesh.S	Mech	Aravind. R	Mech
Rubbesh.S	Mech	Arjun. V	Mech
Singh Ajit Rajkumar	Mech	Arikrishnan. R	Mech
Srivatsan.S	Mech	Arun. U	Mech
Vijayarathri.A	Mech	Mukesh. M	Mech

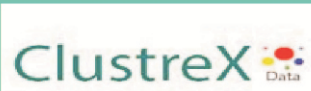


**SALARY PACKAGE : 1.32 LPA**

Industrial Engineering Quality Services Group (IEQS Group) offers NDT services and consulting in Chennai and provides quality services to its customers. The company offers a skill acquisition and training programme for the students of the Department of Mechanical Engineering. Fourteen of our students were selected for a career in IEQS with a salary of 1.32 LPA.



Clustrex is a one-stop destination for all data collection, analysis, management needs across healthcare, energy, fintech, retail and more. Mr Karthik Charan of the Department of Computer Science and Engineering is placed with Clustrex with a package of 1.62 LPA.




www.act.edu.in

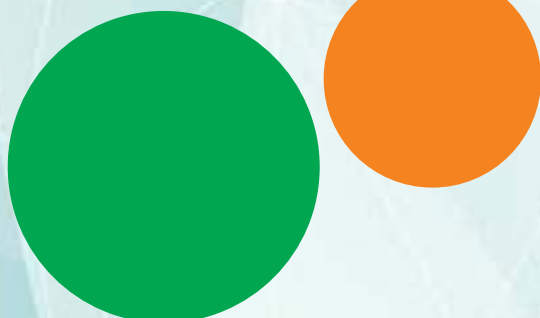
## AGNI'S PROMISING ENTRY INTO

### ClustreX Data

Karthik Charan CSE



**SALARY PACKAGE: 2 LPA**





# EARTHQUAKE RESISTANT DESIGN TECHNIQUES FOR BUILDING AND STRUCTURES

Earthquake resistant design of buildings depends upon providing the building with strength, stiffness and inelastic deformation capacity which are great enough to withstand a given level of earthquake-generated force.

This is generally accomplished through the selection of an appropriate structural configuration and the careful detailing of structural members, such as beams and columns, and the connections between them.

But more advanced techniques for earthquake resistance is not to strengthen the building, but to reduce the earthquake-generated forces acting upon it.

Earthquake Resistant Design Techniques for Buildings and Structures Among the most important advanced techniques of earthquake resistant design and construction are:

- Base Isolation
- Energy Dissipation Devices

## BASE ISOLATION METHOD

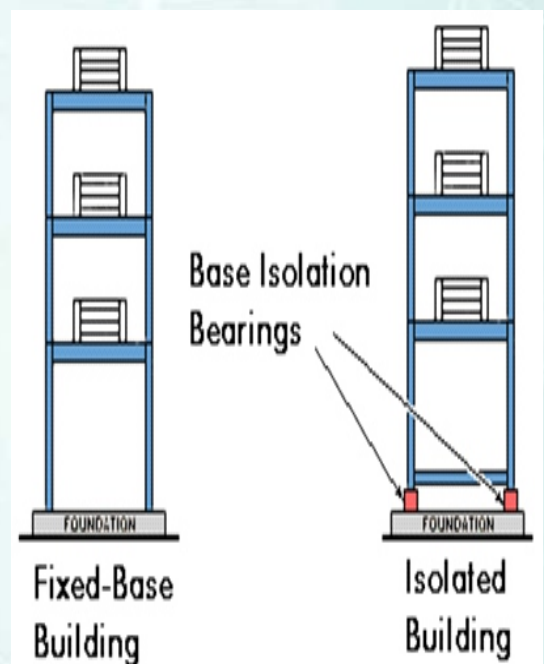
A base isolated structure is supported by a series of bearing pads which are placed between the building and the building's foundation. (See Figure 1.) A variety of different types of base isolation bearing pads have now been developed.

The bearing is very stiff and strong in the vertical direction, but flexible in the horizontal direction.

## Earthquake Generated Forces

To get a basic idea of how base isolation works, examine Figure 2. This shows an earthquake acting on both a base isolated building and a conventional, fixed-base, and building. As a result of an earthquake, the ground beneath each building begins to move. In Figure 2, it is shown moving to the left.

Each building responds with movement which tends toward the right. The building undergoes displacement towards the right. The building's displacement in the direction opposite the ground motion is actually due to inertia. The inertial forces acting on a building are the most important of all those generated during an earthquake.

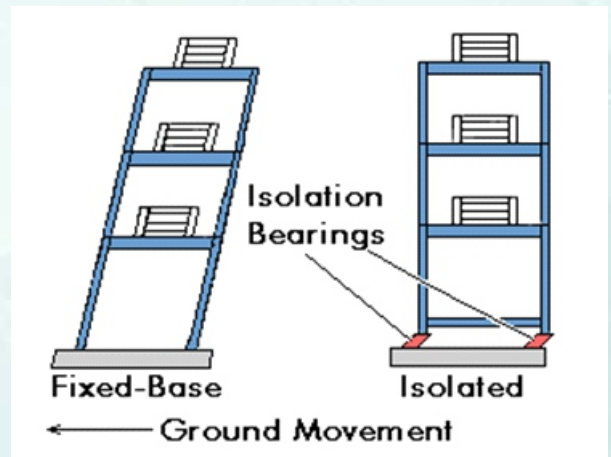


It is important to know that the inertial forces which the building undergoes are proportional to the building's acceleration during ground motion.

It is also important to realize that buildings don't actually shift in only one direction. Because of the complex nature of earthquake ground motion, the building actually tends to vibrate back and forth in varying directions.

**Deformation and Damages to Structures**

In addition to displacing toward the right, the un-isolated building is also shown to be changing its shape-from a rectangle to a parallelogram. It is deforming. The primary cause of earthquake damage to buildings is the deformation which the building undergoes as a result of the inertial forces acting upon it.



**Deformation and Damages to Structures**

In addition to displacing toward the right, the un-isolated building is also shown to be changing its shape-from a rectangle to a parallelogram. It is deforming. The primary cause of earthquake damage to buildings is the deformation which the building undergoes as a result of the inertial forces acting upon it.

**ENERGY DISSIPATION DEVICES:**

Accordingly, a wide range of energy dissipation devices have been developed and are now being installed in real buildings. Energy dissipation devices are also often called damping devices. The large number of damping devices that have been developed can be grouped into three broad categories:

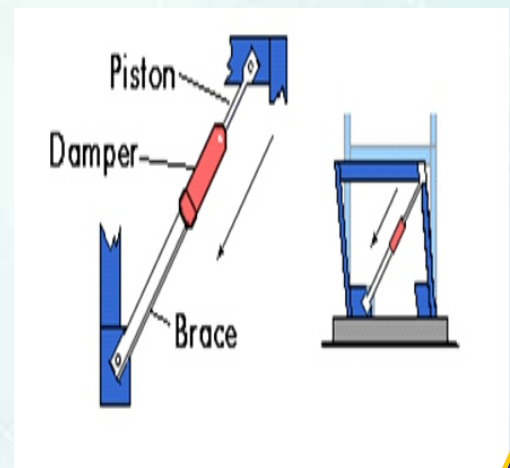
- Friction Dampers: these utilize frictional forces to dissipate energy
- Metallic Dampers : utilize the deformation of metal elements within the damper
- Viscoelastic Dampers : utilize the controlled shearing of solids
- Viscous Dampers: utilized the forced movement (orificing) of fluids within the damper
- Fluid Viscous Dampers: General principles of damping devices are illustrated through Fluid Viscous damper. Following section, describes the basic characteristics of fluid viscous dampers, the process of developing and testing them, and the installation of fluid viscous dampers in an actual building to make it more earthquake resistant.

**Damping Devices and Bracing Systems**

Damping devices are usually installed as part of bracing systems. Figure 3 shows one type of damper-brace arrangement, with one end attached to a column and one end attached to a floor beam. Primarily, this arrangement provides the column with additional support.

Most earthquake ground motion is in a horizontal direction; so, it is a building's columns which normally undergo the most displacement relative to the motion of the ground.

Figure 3 also shows the damping device installed as part of the bracing system and gives some idea of its action.





## CHRONICLES OF THE GUITAR

The guitar's roots go way back to 15th-century Malaga in Spain. Its engineering was pioneered by a Spanish black man, who gave just four strings or "courses" to his guitar. Thereafter, the instrument went through the Baroque and Classical periods before evolving into the six-stringed, modern-day guitar.

A guitar was defined as being an instrument having "a long, fretted neck, flat wooden soundboard, ribs, and a flat back, most often with incurved sides."

The modern word guitar, and its predecessors, has been applied to a wide variety of chordophones since classical times and as such causes confusion. The English word guitar, the German Gitarre, and the French guitare were all adopted from the Spanish guitarra. We can see this kind of naming in Setar, Tar, Dutar and Sitar. The word "Tar" at the end of all of these words is a Persian word that means "string".

Guitars can be divided into two broad categories, acoustic and electric guitars. Within each of these categories, there are also further sub-categories. For example, an electric guitar can be purchased in a six-string model (the most common model) or in seven or 12-string models.

Notationally, the guitar is considered a transposing instrument. Its pitch sounds one octave lower than it is notated on a score. A variety of tunings may be used. The most common tuning, known as "Standard Tuning", has the strings tuned from a low E, to a high E, traversing a two octave range—EADGBE. When all strings are played open the resulting chord is an Em7/add11. In standard tuning, the C-major chord has three shapes because of the irregular major-third between the G- and B-strings.

*By* **Roshan Ajit**  
III year, Mechanical & Automation

## LASER CLADDING

Laser cladding or laser deposition is a processing technique used for adding one material to the surface of another in a controlled manner. A stream of a desired powder is fed into a focused laser beam as it is scanned across the target surface, leaving behind a deposited coating of the chosen material. This enables the applied material to be deposited selectively where it is required.

## PROCESS DESCRIPTION

In laser cladding, the laser beam is defocused on the work piece with a selected with a selected spot size. The powder coating material is carried by a inert gas through a powder nozzle through a melt pool. The laser optics and powder nozzle are moved across the work piece surface to deposit single track, complete layers or even high- volume build-ups.

### Process Basics:

Typical laser power : 1-6 kW

Typical build up rate : 0.1 to 12 kg

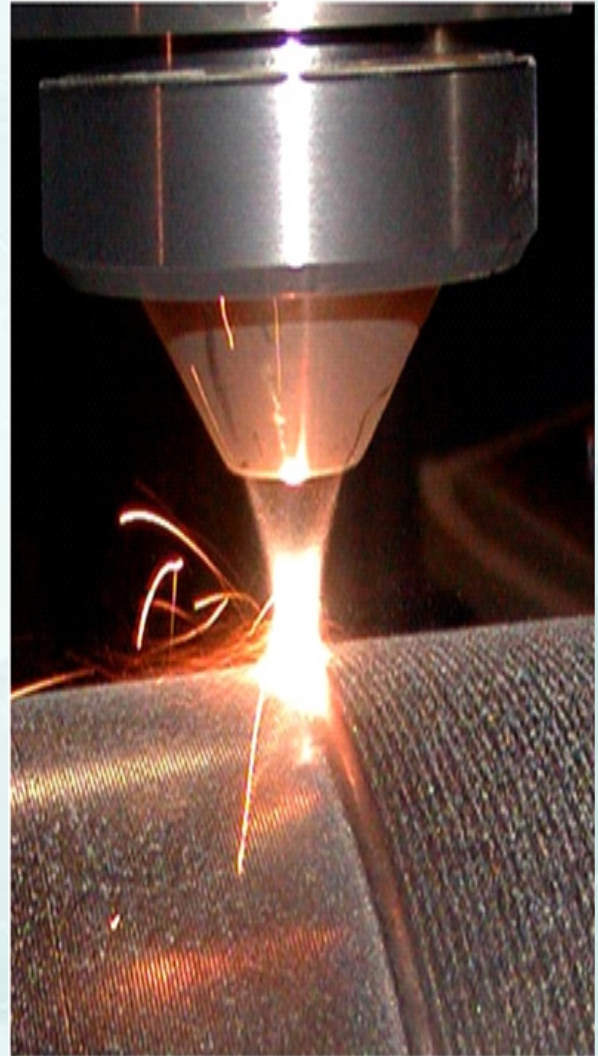
Typical coating thickness : 0.2 to 4 mm

Coating Materials : Weldable powders (metals, metallic alloys, carbide blends)



**Key Characteristics:**

1. Perfect metallurgic ally bonded and fully dense coatings.
2. Minimal heat affected zone and low dilution the substrate and filler material resulting in functional coatings that perform at reduced thickness, so few layers are applied.
3. Fine, homogeneous microstructure resulting from the rapid solidification rate that promotes wear resistance of carbide coatings.
4. Edge geometries can be coated and built up with welded deposits.
5. Near net-shape weld build-up requires little finishing efforts.
6. Extended weldability of sensitive materials like carbon-rich steels or nickel based super alloys that are difficult or even impossible to weld using conventional welding processes.



**Applications of Laser Cladding:**

1. Dimensional Restoring.
2. Wear and corrosion protection
3. Laser additive manufacturing.
4. Laser cladding can also repair damaged surfaces which wear down by repeated use.

*By* **Mr. Sudhan Anandh**  
II year, Mechanical & Automation

**Classroom Technology: What’s New For 2018?**

The invention of new technologies and improvement of old ones has shown no signs of slowing down for 2017. Cutting edge teachers will want to ensure that they’re up to date on all the latest trends and innovations so that their students are learning with the best technology available.

Many recent trends are expected to continue in 2017 and find their way into the classroom. From inexpensive virtual reality headsets and augmented reality glasses to better mobile device operating systems, educators should know what to expect in 2017.

**Technology in the Classroom**

The number of devices and uses for tech in the classroom has been steadily increasing over the years. According to a recent survey of 2,500 educators, 60% of teachers expect to use more technology in the classroom than in the past this current school year. Three out of four say they use some sort of technology each day in class, with as many as 80% reporting that technology is a positive in the classroom.

The most popular technology used in classrooms has been small laptops and tablets. Apple iPads and other tablets were adopted early by many schools because of their easy interface and touch screens. Tablet apps can allow for fun learning in young students and has found many new uses with disabled students.



In recent years, Chrome books have become the go-to classroom device due to their low cost, various hardware options, and simple Web-based operating systems. These small laptops also provide educators with control over student’s activities and can be pre-programmed with education apps. Students are able to use Chrome books for everything from group collaboration on spreadsheets and documents to research opportunities. Chrome books can be especially useful in schools where students have limited access to devices and Internet at home.

Tech-savvy teachers have also been adopting SMART Boards in the classroom in recent years. These computer-connected white boards use a projector and specialty pen sensors to allow writing on computer programs such as AutoCAD or PowerPoint as well as recording all written notes. Teachers can explain a concept on the board during class then save the lesson plan so that students can rematch it later at home. It’s a great tool for students of all ages and a number of disciplines.

Some educators have been experimenting with virtual or augmented reality. Students can use high-end tech, such as Google Glass or low-end Google Cardboard VR headgear, to enter to three-dimensional locations. History students can visit far off locations via free apps or explore current events with new software from The New York York Times. Cardboard headsets can cost less than \$10, use free apps, and only require a Smartphone for operation.

Using technology in the classroom dates back nearly 100 years when radio stations began broadcasting on-air classes, according to Purdue University. Since then, innovations such as the overhead projector, the calculator, desktop computers, CD-Roms, and countless other inventions have transformed the teaching landscape.

Although these technologies have provided boundless opportunities over previous generations of students, they also produce myriad distractions and much higher costs. For example, access to Chromebooks can lead to wasted time on social media, and buying a SMART board for the classroom is a significant expense for many schools.



- Mrs.R.Vidhya, AP/IT

SEPTEMBER 2018



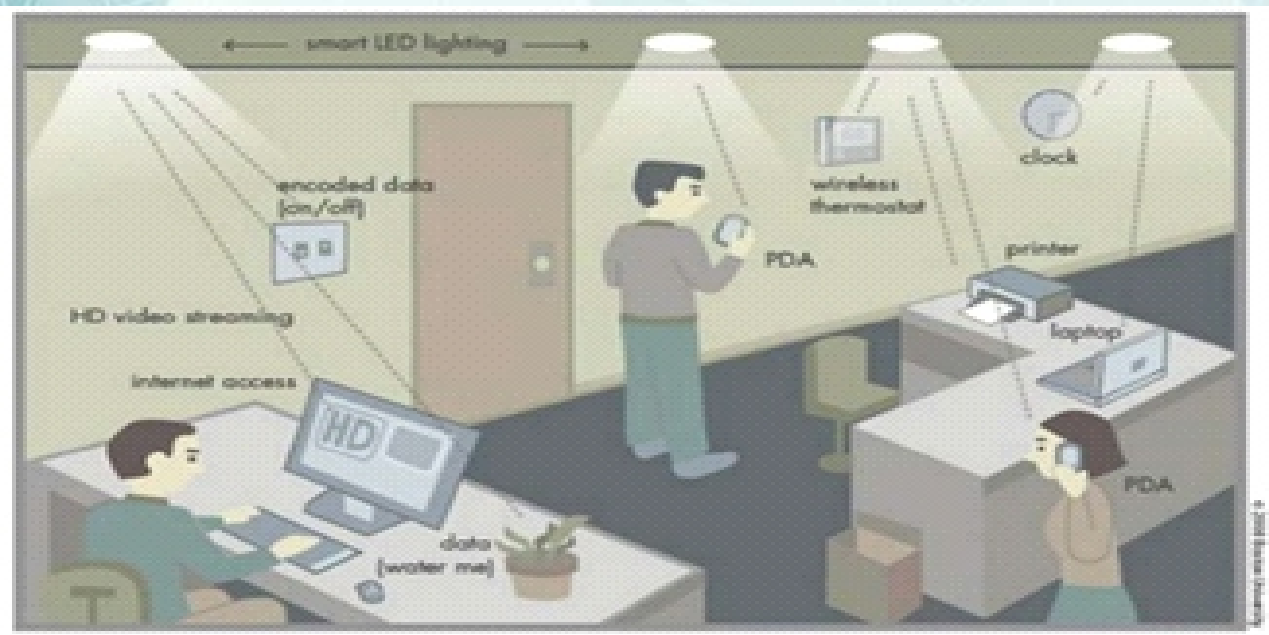
## Li – Fi Technology



Li-Fi is a bidirectional, high-speed and fully networked wireless communication technology similar to Wi-Fi. The term was coined by Harald Haas and is a form of optical wireless communications (OWC) and uses the visible spectrum as well as ultraviolet and infrared radiation.

### How it works?

Light Fidelity or Li-Fi is a Visible Light Communications (VLC) system running wireless communications travelling at very high speeds. Li-Fi uses common household LED (light emitting diodes) light bulbs to enable data transfer, boasting speeds of up to 224 gigabits per second.



### How Fast is it?

The visible light spectrum is 10,000 times larger than the entire radio frequency spectrum. Researchers have reached data rates of over 224 Gbit/s, which is much faster than typical fast broadband in 2013 Benefits of Li Fi.

**Benefits of LiFi:** Higher speeds than Wi-Fi. 10000 times the frequency spectrum of radio.

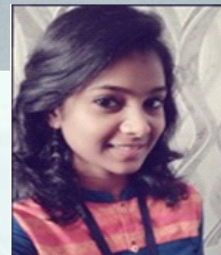
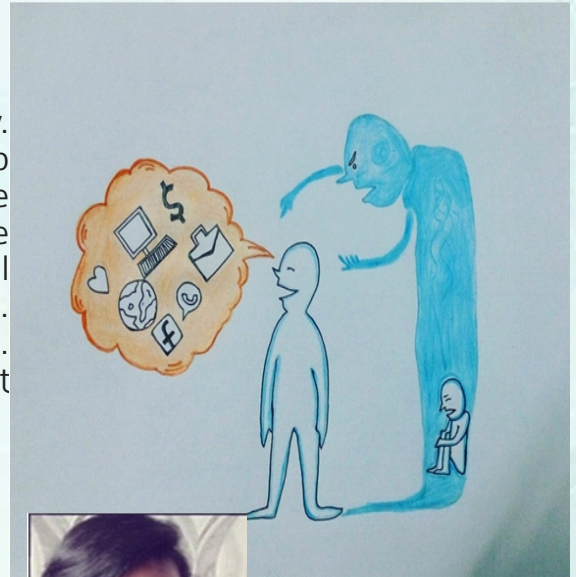
Mrs.R.Durga,AP/IT





## Hostile Self

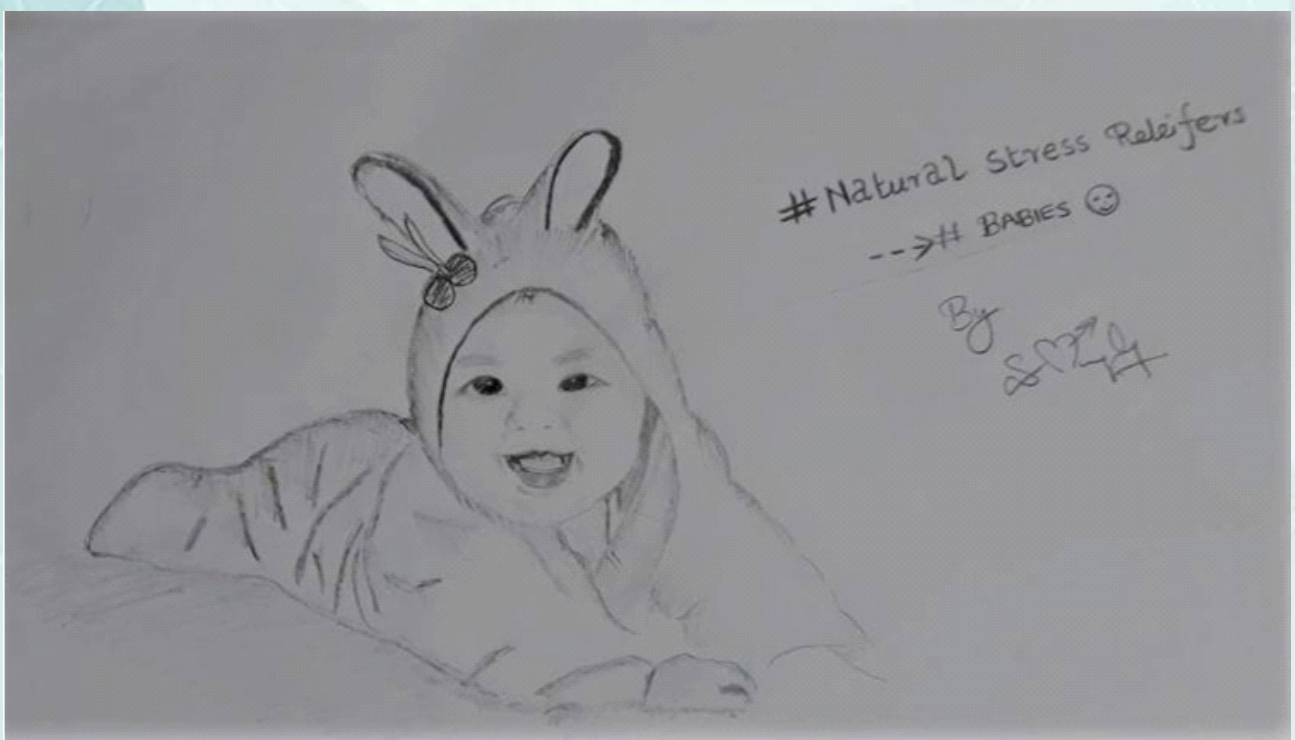
The part of us that we don't love ends up in our shadow. It's like we cut these part out and push them in to deep conscious so that we can look at ourselves and see only the so called good parts. Often times we are stuck inside our 'life' routines thinking we are normal and trying hard to repress them when they show up. Go towards them instead of avoiding. Accept them. Love them. Let them be healthy part of us. So that they can help rather than harming. #hostile



By **Ms.Pooja K.**  
IV CSE-B



By **Ms. Raja Gomathy S**  
IV-CSE-B



By **Mr.S.Mugesh**  
IV year IT



**A**gni College of Technology (ACT), Thalambur, Chennai, conducted **13th Graduation Day** at the College premises on Sunday, 2nd September 2018.



Dr. R.S. Kumar, Principal, Agni College of Technology, presided over the function and delivered the Welcome Address. Ms. Kavitha Vijayaraghavan, Placement Officer introduced the **Chief Guest. Shri S. Pandian, Director, Sathish Dhawan Space Centre SHAR, Sriharikota, ISRO, Department of Space, Government of India.** Mr. P. Janarthanan Menon, Director, ACT, felicitated the chief guest.



**A**ddressing the young graduates, Shri S. Pandian, Director, Sathish Dhawan Space Centre SHAR, Sriharikota, ISRO, Department of Space, Government of India, stressed on the importance of education and the role of engineers towards development of the socio economic status of the citizens. He insisted on self-development and perseverance. Further, quoting Robert H. Goddard, "It is difficult to say what is impossible for the dream of yesterday is the hope of today and the reality of tomorrow." That education is an asset, one man can possess and it should do wonders for him and also to the society. Emphasizing how tech driven communities play vital role in welfare of general society with the analogies of ISRO's achievements and the impact they created in Indian society. He urged the graduate's to strive hard, climb the ladder of success, bring laurels and excellence for Mother India

A total of 338 graduates and postgraduates, including 2 university rank holders, received their degrees

SEPTEMBER 2018



# 18th Inaugural Function For First Year B.E./B.Tech, On 1st September, 2018



Agni College of Technology, Thalambur, conducted its 18th Inaugural function for the First Year B.E./B.Tech. Courses on September 1st, 2018, at the college premises. The program started with an invocation song followed by lighting of traditional lamp by the Dignitaries. The welcome speech was given by Mr. J. Khamrudeen from Final year Mechatronics. The Chief Guest was felicitated with a memento and bouquet. Later, Ms. Kavitha Vijayaraghavan, Placement Officer, organized a session “Life at Agni” through students, to give a gist of “Being an Agnian”.



Principal Dr. R.S. Kumar addressed the gathering and introduced the Heads of various Departments. Dr. Srinivasan Alavandar, Dean Academics delivered the Presidential Address. He spoke about principles and ethical values to be followed by professional student. He requested the parents to spend time with their wards, discuss family matters, talk about different walks of life, to help them to understand life. Mrs. Bhavani Jayaprakash, Chairperson and Mr. Agnishwar Jayaprakash, Vice Chairman graced the function with their august presence.

Distinguished **Chief Guest Mr. Arul Rajkumar, Vice President, IT Operations, FORD Motor Pvt. Ltd.**, gave an insight on the present industrial requirements of engineers and their employability skills. He spoke on the importance of being professionals and encouraged them to be confident in their journey to explore new horizons. Addition to it he stressed the difference between studying and learning. He urged on the importance of learning, establishing attitude, acquiring communicational attributes and industrial skills. He insisted students to keep in pace with ever advancing technological solutions to breathe in the industrial world. Finally, he advised the students not to miss out any opportunities that life throws at them.







Mr. J. Sathyaseelan, HR – Valeo India Pvt., Ltd., acquainted with the various avenues and opportunities and motivated the students to start work towards greater goals. Mr. Agnishwar Jayaprakash, Vice Chairman pleaded the gathering to fulfil the dreams of Dr. A.P.J. Abdul Kalam. Dr. R. Balaji, Head, Dept. of S&H, proposed vote of thanks and the function dissolved with the National Anthem





## Teacher's day

- The Event started as soon as the guests, Chairperson Mrs Bhavani Jayaprakash, Principal Dr R.S.Kumar, Dean - Academics Dr Srinivasan Alavandar and the Faculty members entered the Seminar Hall along with the throng of the Heads of various Departments. Mr J Khamrudeen of the Department of Mechatronics Engineering welcomed the gathering.
- Mrs Bhavani Jayaprakash, Chairperson, Agni College of Technology greeted the Faculty and the dignitaries. She thanked all the Faculty Members for their dedication and emphasized more on treating each student as one among the family.
- Then came the most expected part of the day - The Award Ceremony. The faculty members were bestowed with Awards based under various categories, such as the Teaching Marathon, Consistent



### AWARDS RECEIVED BY FACULTY MEMBERS:

Twenty one faculty members have received APJ Abdul Kalam Award for a best resourceful teacher. Ten faculty members have received MS Swaminathan Award for best innovation, consultant and Project activity during Teacher's day celebration



Twenty faculty members have received Swami Vivekananda Award for Best Encouraging, Motivation and Mentoring during Teacher's day celebration.

Fifty faculty members have received the Academic Excellence Award for 100% target achievement and consistent Performance in the Academic Result.



Thirty faculty members have received Sir C.V.Raman Award for Research Scholar Contribution.

Sixty-four faculty members have received Nov/Dec 2017 Academic result Target attainment.

Seventy-two faculty members have received April/May 2018 Academic result Target attainment. Nineteen faculty members have received Dr.Radhakrishnan Award for Best Scholarly Teacher having Sound Knowledge in Subjects & Concepts.



## National Service Scheme

### Nilavembu Kudineer – Distribution on 13-10-2018

Agni College of Technology NSS volunteers around 30 students created awareness about Dengue fever by distributing “Nilavembu Kudineer” to the faculty members and students to improve their immunity on 13-10-2018 at the college premises. Tottaly around 350 members (both students & faculty members) were benefited through this event.





## Department of Computer science Engineering

### Students Achievement:

- A Balaji K, Edupuganti Bhanukiran E, Evangeline C, Meenakshi Sundaram M, Ritish K, Srinidhi K, Terin Tittu R of IV year students were placed in IDBI Bank at On-Campus, which is held on 12th Sep'18 with CTC 4 LPA
- Minaz Tanweer, Arun Karthick B, Antony Infant M, Jayapraveen B were placed in Just Dial at On-Campus, held on 18th Sep'18 with CTC 3 LPA
- Mr. Karthikcharan R. from Final Year CSE have got placed in Clustrex Technologies through On-Campus with CTC 2PA, held on 28th Sep'18.
- Mr. B. Selvaraj from Third Year CSE have won First Prize with Cash Award of Rs 1000 in "Web Designing" at National Level Technical Symposium ("MINDSURF'18 PROCUS") at Jerusalem College of Engineering on 28th sep'2018.
- Our Final Year and Third Year Students were undergoing Industrial Project entitled "Pay Roll for Employees" for the Company "Mando" at Sriperambur. The project team members are Karthick charan- IV-CSE-A, Delip III CSE A, Bharathi kannan III CSE A, Chandrasekar M III CSE A and Balaji S III CSEA.





## Industrial Project Explanation at Mando:



### Staff Activities:

S.JAGAN Sr. AP/CSE have Completed Ph.D, Viva-Voce entitled "Positive Improvements in Query Recommendation System Using Query Flow Graph with Metaheuristic Techniques" on 28<sup>th</sup> Sep'18 at Anna University.





- Mrs. Angel G have received following awards on Teachers day Celebration'2018 at Agni college of Technology
- Best Scholarly Teacher-Radhakrishnan award
- Best Resourceful Teacher -Dr. A. P. J Kalam award
- Best Encouraging, Motivating and Mentoring Teacher-Swami Vivekanantha award
- Research Contribution -Sir C V Raman award
- Best Innovation / Consultant / Project activities -M. S. Swaminathan award
- Mr.Thiyagarajan.A has received the award for “Best Scholarly Teacher-Radhakrishnan award” on Teachers day Celebration'2018 at Agni college of Technology.
- Mr.Yoganand .S have received the award for “Best Innovation / Consultant / Project activities -M. S. Swaminathan award” on Teachers day Celebration'2018 at Agni college of Technology.
- Mr. S. Jagan Sr.AP/CSE and Mr.Santhosh Kumar AP/CSE have attended one day Workshop in Machine Learning using Python conducted by Pantech Private Ltd., on 22<sup>nd</sup> Sep'18.
- Mr.A.Thiyagarajan AP/CSE has participated in Two-Days Workshop on Deep Learning Tools and Techniques conducted by College of Engineering Guindy, Anna University from 26<sup>th</sup> Sep to 27<sup>th</sup> Sep'18.
- **Department Activities:**
- Department of Computer Science and Engineering has inaugurated the Departmental Association and conducted a Motivational Talk given by Mr.Lakshmi Narasimhan Gopalan Vice President – Delivery & Compliance Innova Solutions Private Limited on 22<sup>nd</sup> Sep'18.





## DEPARTMENT OF ELECTRONICS & COMMUNICATION

### Guest lecture:

A Guest Lecture was organized for ECE Final Year Students on 04.09.18. The topic was "Embedded Controllers and Embedded C Programming". The resource person was Mr. E. Arun Kumar from VP RETECH Solutions pvt.



- **Students Participation in Seminar / Conference / Workshop /Symposium/ Training**
- Mr. Sabari Janath B.P., Mr. Matheshwaraan K, and Mr. Devendran R. from II ECE B have presented a paper titled "Energy Source from Living Organisms Liquid Waste For Automobile and Engine Powered Systems " in International Conference (ICWEE-2018) held at Sathyabama Institute of Science and Technology on September 5<sup>th</sup> to 7<sup>th</sup>.
- Mr. Santhosh Kumar from II ECE B have presented a paper titled" The All Seeing Eye" in Peri Institute Of Technology and won Third Prize on September 15<sup>th</sup>.
- Mr. Santhosh Kumar from II ECE B have presented a paper titled" The All Seeing Eye" in New Prince Shri Bhavani College of Technology and won Second Prize on September 8<sup>th</sup>.
- Ms. Akshaya P. and Ms. Divya J. from III ECE A have presented a paper titled "Space and Satellite Communication" in Peri Institute of Technology on September 15<sup>th</sup>.  
Ms. Aswini J. and Ms. Yogitha P. from III ECE have presented a paper titled "Technology on Agriculture" in Peri Institute of Technology on September 15<sup>th</sup>.



## Department of Electrical and Electronics Engineering

### • FACULTY ACHIEVEMENTS

- Mr. L. Arun Subramanian, Assistant Professor - Department of Electrical and Electronics Engineering has presented a paper entitled "Renewable Energy Using Bladeless Wind Turbine" in International Conference on Innovations and Research in Marine Electrical and Electronics Engineering" at AMET University on 27th and 28th Sep 2018.



### • INDUSTRY VISIT REGARDING COE & INTERNSHIP

- Department of Electrical and Electronics Engineering has visited centre of Excellence and students regarding the internship at BGR ENERGY system pvt limited , Chennai which is a leading electrical company providing thermal power plant equipment products.





## · **STUDENT'S ACHIEVEMENTS**

Third year Electrical and Electronics Engineering students Vennila Devi P, Emimal L, Harish B and Jagadesan D, guided by Mr. L. Arun Subramanian, Assistant Professor-Department of Electrical and Electronics Engineering presented paper on Energy Management using Zero Energy Building – A Design based Approach in International Conference on Waste, Energy and Environment held at Sathyabama Institute of Science and Technology, on 5<sup>th</sup> to 7<sup>th</sup> September 2018.



## § **PRIDE ACTIVITIES**

- The students from IV year EEE Seemaan M and Mr. Kesavan R have participated in AICTE/Chhatra Viswakarma Award 2018 and presented project titled "Design & Implementation of Water Quality Evaluating System using GSM".
- The students from II year EEE Ramajayam.C and Karthick.N have participated in Real Thanos game and Meme Creation event conducted in Project Expo and Symposiums at CEG Anna University, Chennai.
- The students from IV year EEE Dhinakaran V , Dhinakaran ,Jennathul Raziya Loeswari, Prabhakaran and Ebin Jose have participated in Race To Asgard Event conducted in Project Expo and Symposiums at Sairam Engineering College



## DEPARTMENT\_OF\_CHEMICAL\_ENGINEERING

### • TECHNICAL TRAINING:

Third Year students of the Department of Chemical Engineering attended technical training conducted by Meridian School of Oil & Gas on Prosim Simulation software.

### Industry Institute Interaction :

Mr.Vijayakanth, from the Technical and Placement training Division , CIPET have visited Agni College of Technology on 20hSeptember, 2018 and discussed in detail about the IPT, Projects and Training to the students of ACT in various disciplines.



### •Student Participation:

Mr.Vaithyanathan of III Year Chemical Engineering has attended an awareness program organized by Rotary Club of Agni College of Technology.

Akshay, Jaya Pravin, Sivakumar & Bharath of II Year Chemical Engineering were shortlisted for Zero Carbon Challenge organized by IIT, Chennai.



## Department of Information Technology

### Placement:

•Mr.K.Vigneshwaran,Mr.R.Vignesh,Mr.Deepak Kumar,Mr.Saideni srinivasa Rao,  
Mr.Suman Raj , Mr.D.Shathish Kumar,Ms.J.Priyadharshini of Final Year



J.Priyadharshini Mr.Rao D.SathishKumar R.Vignes K.Vineshwaran Mr.Suman Raj



□ Ms.S.Pooja Roy of Final Year got placed in WorksBOT with CTC of 2.5 Lakhs per annum

Mr.D.Shathishkumar of Final Year got placed in BYJU's with CTC of 10 Lakhs Per Annu



### Internship :

□ Ms.Sivaranjani & Ms.Lakshmi Priya of IV year got internship in Brain Child Technologies from September with the stipend of 10,000/- Per month



### □ Student Participation:

Mr.Z.Sabeer Mohammed and Mr.S.Mugesh won second prize in web development and received cash prize of Rs.1000/- Nation Level student symposium held at St.Joseph College of Engineering.



**Alumni Talk**

- Ms. J.Annaporna and Ms.D.Sowmya of Batch 2014-2018 working as Mule Developer in Antenna Software Solution gives provoking speech on "On campus Placement Cracking tips and its importance" to the III year & IV year Students on 17-sep-2018.:



**Association Activity:**

The Department of Information Technology of Agni College of Technology (ACT) hosted its Alumni Meet on 8th September, 2018 at the college campus. The Alumni meet commenced with the inauguration witnessing the participation of around 41 alumni from various batches from 2005 till 2018 designated themselves in top reputed Industries. Mr.Prabhu, Director- NSolutions acted as the Chief guest for this Meet.





## **Report on Retract '18**

### **The Alumni Meet of the Department of Mechanical Engineering**

The Department of Mechanical Engineering conducted Retract '18 – the maiden Alumni Meet for the Department of Mechanical Engineering on the 08<sup>th</sup> of September 2018 at Seminar Hall, ACT Premises.

The Meeting started by 12 noon. Dean – Academics was the Guest of Honour for the Alumni Meet. The Meeting had the advent of Alumni who were from the first batch (2010 – 2014) right up to the recently passed out batch (2014 - 2018).

There was a total of 48 Alumni who has attended the Event and had a sweet reminiscence of their wonderful times at Agni.

The Meeting started after a cup of coffee, with the Tamil Thaaai Vaazhthu by 12.03 p.m. when all the dignitaries took their places in the dias.

The Alumni were seated according to their batches. This was a good time together as they were filled with nostalgia when they were once again living the olden memories again. The Meeting was attended by the Department Faculty Members with the HOD, Dean and the Distinguished Alumni, Mr. D.F.S. Raj (2010 – 2014) on the dias

After the Tamil Thaaai Vaazhthu, there was the lighting of the lamp by the dignitaries on the dias. The Distinguished Alumni, HOD and the Dean lit the Event by lighting the lamp.

The Dean then felicitated the Distinguished Alumni on the stage while the HOD welcomed the gathering. The HOD elaborated the different facets of Trainings which are offered at Agni for the students, to the Alumni. He also welcomed the Alumni to share their input for the betterment of the current students.

The Dean then stood up to offer the Presidential Address as the Principal was on leave on Saturday. The Dean spoke about how the various Companies have now planned to come for Placements and he also appealed to the Alumni to mentor the current students and also to visit the Alma Mater every now and then to develop the College on par with the Industry.

The Distinguished Alumni, Mr. D. F. S. Raj, then went over to speak about the various lasting memories which they had during the period of 2010 – 2014, at Agni.



**Awards / Achievements By Students**





The Formal Events were then followed by the Memento Presentation to the Distinguished Alumni (7 nos.) who were chosen out of the Alumni who had come. This was followed by the batch – wise photo shoot for all the batches.

After this, the Fun Events emerged. The Alumni had some wonderful times reminiscing the old days. Lots of happy notes were exchanged between the Faculty and the Old Boys! Truly it was a wonderful time.

The Meet ended by 2.30 p.m. with a very late lunch given by the Management. The Department of Mechanical Engineering thanked the Management, Staff and the Students of ACT for their active help and guidance to make this Event a memorable one in the lives of all the Alumni and everyone at Mechanical Department. Thank You!



### HONOURS

The following students' of the Department of Mechanical Engineering have attended a Two Day Pitch Up event held at SRM University, Katankalathur on 7<sup>th</sup> and 8<sup>th</sup> of September 2018.



## Department of Bio Medical Engineering

### Conferences/Workshops / Symposiums

- Gayathri MR of 3rd year, participated in Wecon Conference held at Jain University, Bangalore from 3.9.18 to 4.9.18.
- R.Balaji, George and Mahesh of 2nd year participated in BIO-VENTURE held at Sathyabama University, Chennai on 6.9.18
- M.Gurumoorthy of 2nd year participated in the Chennai International Youth Fest held at Vellore Institute of Technology on 8.9.18 and he was named as the Best Manager
- Biomedical Final year students Mr. Manikandan & Mr. Prabhudevan have bagged the FIRST PRIZE in National Conference in "Recent technology in biotechnology and healthcare" at Rajalakshmi Engineering College, Thandalam, Chennai, 27.09.2018





Shajith Aakash of 2<sup>nd</sup> year and Rudhra Prasath of final year won the first prize in Silambam District Level Tournament held on 9.9.18

Lakshmi Priya of 3<sup>rd</sup> year BME has won the 4<sup>th</sup> prize in the Basket Ball match held at Jerusalem college in the zonal level on 11.9.18.

Ram Kumar of 3<sup>rd</sup> year went up to quarter finals in Ball Badminton held at Thangavelu college of Engineering in the zonal level on 29.9.18.

### Campus Placements

4 students Lavanya.S, Moulika, Tamilselvam, Catherin got placed in IDBI, a marketing company.



2 students G.Priyadharshini, Mahendran.A has got placed in JustDial.

8 students Sowndarya, S.Saravanan Priyanka, Yogashalini, Tamil Selvam, Divyasri, Sabarigrivasan, Ranjithh has got placed in Healthwatch.

### Other events

Final year BME students participated in the medical camp held at Sri Satya Sai Camp at Thiruporur







- 1.Pragadeeswaran.M
- 2.Singh Ajit Rajkumar
- 3.Srivatsan.S
- 4.VenkatG.Surya
- 5.Venkatachalapathy.T.S.
- 6.Vishal vaibhav

The event was titled “Slingshot” was aimed at providing a National level launch pad for startups. Our students presented two startup ideas which were felicitated with 1<sup>st</sup> and 3<sup>rd</sup> prizes

The two ideas which were put forth by the team were

1. Speed breaker setup to harness Electrical Energy using vehicular motion during entry/exit of gat

## PLACEMENTS

1. Mr. Jayesh R Student of Final Year Mechanical Engineering has got placed in BYJU’S through the On Campus Drive @ACT
2. Mr. Vishal Vaibhav and Mr. Venkatachalapathy of Final Year Mechanical Engineering have got placed in WORKSBOT On Campus Drive@ ACT



**DEPARTMENT OF MECHATRONICS ENGINEERING**

**•AWARDS RECEIVED BY STUDENTS**

P.K.Rukesh Prasanaa from IV year has won the first prize in Chennai District Level Silambam Competition organized by Silambam Association at Valasaravakkam on 09/09/2018.



P.J.Gurukailash from IV year Mechatronics has secured First Place with Rs.5000 cash prize I Technosummit 2k18 in “Drone Racing” Conducted at Sathyabama Institute of Science and Technology on 07/09/2018.

P.J.Gurukailash from IV year Mechatronics has secured First Place with Rs.6000 cash prize in ELEXRIEG 2K18” in “Drone Racing” Conducted at MNM Jain Engineering College on 29.09.2018.



Third year Mechatronics Engineering students, S. Surendar and A. Ram Vignesh have received a best paper award for the paper entitled “Braking System in Automotive Engineering – An Innovative Approach through Solenoid Control” in “International Conference on Innovations and Research in Marine Electrical and Electronics Engineering” at AMET University on 27th and 28th Sep 2018





**PLACEMENT TRAINING PROGRAMS**

Tamilselvan and Maniyarasan from IV Year MHT have attended an online exam, conducted by TCS Ninja on 02/09/2018.

**ALUMNI VISIT**

K.Manikandan, K.GowthamRaj, G.Navinkumar alumini of 2016 batch working in Baliga Lighting Pvt LTD have addressed our II year Mechatronics students and shared their experiences on 07/09/2018.



**FACULTY PARTICIPATION IN WORKSHOP/SEMINAR:**

Mr.Ohmsakthivel has attended one day Seminar on “Technology transfer for societal application” Organized by CEG Anna University on 5/09/18





**STUDENT PLACEMENT:**

Final year students Madhanraj G,Surendhar SJ,Umalnath T,Manikandan K,Ragavendra B,Vishal R has got placed in IDBI Federal Bank as a Agency Leader with the package of 49,000/ per month on 12.9.18.

Final year students Khamrudeen.J,Santhosh.P has got placed in Health Watch Telediagnosics Limited as a Trainee with the package of 15,000/- per month on 29.9.18.

**PLACEMENT TRAINING PROGRAMS**

Tamilselvan.A and P.Santhosh of IV year Mechatronics has attended an Online Exam conducted by TCS NINJA.



## • STUDENTS PARTICIPATION:

Sharanraj, Antony and Vishwadath from IV year MHT has participated in Hackathon competition held at St. Joseph Institute of Technology on 11<sup>th</sup> and 12<sup>th</sup> Sep.

R.Sethupandi and MA.Ajith from IV year MHT has participated in ZONAL KHO-KHO match at Loyala ICAM on 4/09/2018.

Kizhakkoott Sarath, Santhosh Kumar from III year MHT has participated in National Level ZONAL BASKETBALL MATCH at SSN college and won 4<sup>th</sup> Place in the ZONAL.

## ROTRACT CLUB

Ajish.K and Karan.E from III year Mechatronics has Participated in BLAST-An Inter cultural Event by Rotary International District 3232 at Santhome Higher Secondary School Auditorium, Chennai on 2.9.18.

## PRIDE ACTIVITY:

Ramanan R, III Mechatronics got shortlisted in the Mitsubishi Electric Cup – National Level Automation Competition for the Project “Autonomous Agri Bots”. Out of 134 project submissions from 70 colleges all over India, this project is one among 35.

## AWARDS RECEIVED BY FACULTY MEMBERS:

Mr.Prasannakumar has received APJ Abdul Kalam Award for bJUST DIAL Pvt. Ltd's most resourceful teacher and MS Swaminathan Award for best innovation, consultant and Project activity during Teacher's day celebration on 5.5.18.

Mr.Pandiyarajayan has received Swami Vivekanandha Award for Best Encouraging, Motivation and Mentoring during Teacher's day celebration on 5.5.18.

Mr.Deepak has received Academic Excellence Award for 100% target achievement and consistent Performance in the Academic Result during Teacher's day celebration on 5.5.18.

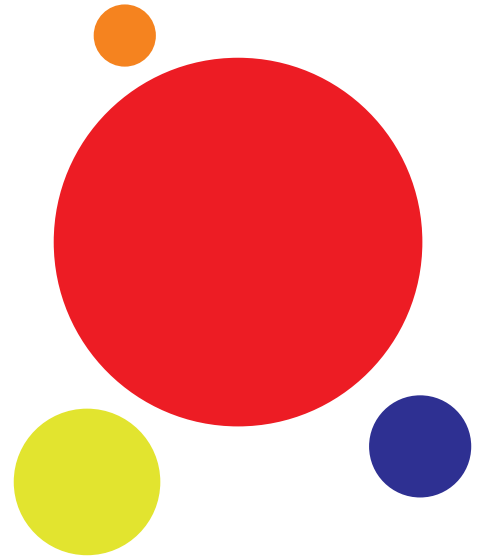
Mr.Karthikeyan has received Sir C.V.Raman Award for Research Scholar Contribution and Nov/Dec 2017 Academic result Target attainment during Teacher's day celebration on 5.5.18.

Mrs.D.Pinky has received Sir C.V.Raman Award for Research Scholar Contribution and April/May 2018 Academic result Target attainment during Teacher's day celebration on 5.5.18.

Mr.Ohm Sakthivel has received Dr.Radhakrishnan Award, consistent Performance in the Academic Result, Nov/Dec 2017 and April/May 2018 Academic result Target attainment during Teacher's day celebration on 5.5.18.



SEPTEMBER 2018



# Agni College of Technology

Estd. in 2001

Affiliated to Anna University, Chennai.  
Approved by AICTE, Accredited by NBA, New Delhi.  
ISO 9001:2015 Certified Institution  
[www.act.edu.in](http://www.act.edu.in)

OMR, Chennai