## eMAG PEC

# Ανώνυμος





# MONTHLY MAGAZINE

DECEMBER 2017





### IOT

#### INTELLIGENCE SYSTEM CLUB





#### WORKSHOP

Mr. Manish Jain, CEO OF IFDE

Intelligence System Club is a place where students can find the latest information around The Internet of Things. The sessions was handled by Mr. Manish Jain on basics of artificial intelligence, big data, data mining, hadoop, data analysis, how to use plugins in the program. And then the installation of R studio and its various packages, how to analyze the file in the form of chart diagram.

On the second day he taught how to analyze the facebook of our own profile by using the inbuilt package.

"IF PEOPLE NEVER DID SILLY THINGS, NOTHING INTELLIGENT WOULD EVER GET DONE."

— LUDWIG WITTGENSTEIN



## XAMARIN

#### MOBILE APP DEVELOPMENT CLUB





#### **AWARENESS**

#### S.P.HEMANTH KRISHNA

Final year student S.P.Hemanth Krishna also shared his experience about his interview process in ZOHO. He started the session with how to apply the jobs in online. Then he discussed about various rounds conducted by Zoho. He also shared his experience in NIC project, which made him to self learn XAMARIN. He also insists to create an account in LINKED IN. It's a good forum to exhibit the knowledge and through LinkedIn account. He had got an opportunity to develop a project from company with 5\$ per hour. It's really a motivational speech to the

"GETTING INFORMATION OFF THE
INTERNET IS LIKE TAKING A DRINK FROM
A FIRE HYDRANT."

— MITCHELL KAPOR

OOK AT THIS ISSUE:

NEW ADS - 3



## COURIER BOY TO CEO

**NEXT-STEP CLUB** 





#### **EVENT REPORT**

MR.VIJAY ANAND, FOUNDER & CEO - SKEDON. COM

Courier Boy to CEO.I started my career as a Courier Boy then moved into Admin, HR, Training and now a Tech Start-up CEO. India's First Trainer on Recruitment Domain.President and Founder of GEO Recruiters Association.World's first crowdsourcing platform for the HR Industry.Founder and Head Mentor - Hirington Academy), a Global Research Academy in the field of Recruitment.Author of "Hiring Handbook" and "Hiring Workbook", a book for Starters and Experienced Recruiters.

"COMPUTERS ARE GOOD AT
FOLLOWING INSTRUCTIONS, BUT NOT
AT READING YOUR MIND."
— DONALD KNUTH



# PHP & DATABASE CONNECTIVITY

WEB APPLICATION CLUB





## INDUSTRY EXPERT INTERACTION

MR.K.LOGESHWAR FROM VAMSOFT TECHNOLOGIES AND MS.C.HARSHITHA FROM ENCORE THEME TECHNOLOGIES.

In this IEI, students learnt how to make the beginnings of a very simple database app, using PHP and MySQL. An interactive session with our alumni Mr.K.Logeshwar from Vamsoft technologies and Ms.C.Harshitha from Encore theme technologies. They clearly explained about the basic concepts in PHP, Database Connectivity and Bootstrap. It is a footstep for the Beginners to learn PHP.

"IN A ROOM FULL OF TOP SOFTWARE DESIGNERS, IF TWO AGREE ON THE SAME THING, THAT'S A MAJORITY."

— BILL CURTIS



# ETHICAL HACKING C- SEC & E- HACK CLUB INDUSTRY EXPERT INTERACTION



MR. S. GURUBARAN, SENIOR
SECURITY ENGINEER, COMODO
SYSTEMS SOLUTION

He discussed about introduction of cyber security, the scope and challenges in security domain, and role of cryptanalyst in cyber security. He explained penetrating test and different methods in penetrating test. He guided the club members how to approach the online penetrating test, its content and website links. And also he discussed about top 10 vulnerabilities (OWSAP) in security domain and how this will be use to identify bugs in website. Club member gain knowledge in cyber security and got clarify their doubts. He explained about bug boundy program, metasploit, sniffers and social engineering. He demonstrated bug boundy program with real time application.

"WE HAVE TO STOP OPTIMIZING FOR PROGRAMMERS AND START OPTIMIZING FOR USERS."

— JEFF ATWOOD



## MOBILE APP PLATFORM

Mobile App Development Club







## INDUSTRY EXPERT INTERACTION

MR. NAVEEN GANAPATHY,
TECHNICAL LEAD, SPUR TREE
TECHNOLOGY, BANGALORE.

He gave the brief explanation about

- The evolution of mobile phone starting from (1995-2000) (Beeper) to present (2015-2020)
- · Explained Xamarin from the scratch.
- · Why Xamarin has introduced and its usage
- · CLI(Common Language Interface)
- · IOT compatibility with the evolution of mobile phones
- · Advantages of Xamarin and its future in the IT industry.

Students were also able to understand about the various mobile App Platform

"SIMPLICITY, CARRIED TO THE EXTREME, BECOMES ELEGANCE."

— JON FRANKLIN



# ENVIRONMENTAL INFORMATION SYSTEM

AGRICULTURAL CLUB





#### INAGURATION

DR.S.G.IYYAPPAN, A SENIOR SCIENTIST IN CSIR

Our guest today was a great scientist from a small village. He has come up in life by his own Hardwork and dedication .He took pride having 14 international patents.He received the "SIR C.V.RAMAN" award for inventing a machine to detect the diseases like Malaria, Dengue...etc at a cheaper cost of 10 rupees per test in a much lesser time of 6 hours.His slogan was "JAI JAWAN, JAI KISSAN"...

In this session he gave a clear idea about the current analysis of farming. The results of his SWOT test includes.

S- strength ,W-weakness ,O-opportunity

"A PROGRAM IS NEVER LESS THAN 90% COMPLETE, AND NEVER MORE THAN 95% COMPLETE."

— TERRY BAKER



### IOT

INTELLIGENCE SYSTEM CLUB

## INDUSTRY EXPERT INTERACTION





The session was started by the guest with a brief introduction on what is IoT, scope of IoT(INTERNET OF THINGS) and data analytics. He told us how IoT and data analytics are interrelated and its various applications and their uses. Then he gave us a little knowledge about what is machine learning. He compared a human with a machine and gave a brief understanding about machine learning. He also motivated us a lot with some valuable thoughts. He said that only when you fail you start to learn and also he gave us a spark by saying that we can learn anything by our own in a room when we have laptop with internet connection. Like this with his valuable thoughts he enlighted our knowledge and also gave a spark to us to start to gain knowledge.

"MAKE EVERYTHING AS SIMPLE AS POSSIBLE, BUT NOT SIMPLER."

— ALBERT EINSTEIN

OPEN HOUSE IDEAS - 3



## **BASICS OF PYTHON**

CODING CLUB





#### REGULAR CLUB ACTIVITY

Students have practiced the programs using classes and objects. Students have learned about

\_init\_ function , self keyword, creating an object, function defination , function calling in python.

Students learned about inheritance, method overloading, method overriding.

"UNIX IS SIMPLE. IT JUST TAKES A GENIUS TO UNDERSTAND ITS SIMPLICITY."

— DENNIS RITCHIE



## **XAMARIN TRAINING**

MOBILE DEVELOPMENT CLUB





#### **WORKSHOP**

MR. S. P. HEMANTH KRISHNA, XAMARIN APP DEVELOPER

With a special focus on Industry connect Resource Person Mr. Hemanth Krishna S P. Xamarin Application Developer, Current Final Year of PEC, Freelancer, Full Stack Web Developer and an expert in Blender and Flutter presided over the function and was honored with the book as token of love by the Principal.Ms. Nithyasree, Third year CSE student & club member briefed about the mobile app development club. This program aims at exposing Xamarin as a Mobile App Development Cross-Platform to the UG students and enable them to understand. explore, research and contribute to the domain.

"TWO YEARS FROM NOW, SPAM WILL BE SOLVED."

— BILL GATES, 2004



## **GAMING INDUSTRY**

**GRAPHICS & GAMING CLUB** 





#### **EVENT REPORT**

MR. SAI YASODHARAN, FOUNDER & CEO – GETHU GAMES PVT LTD.

Mr.Sai yasodharan started the session with the introduction about the need of Gaming industry and the skills that need to get into the gaming industry. He addressed that the gaming industry is million dollar industry, he motivated the students by exploring the needs of gaming professional in the industry market. He also briefed about all the game development tools – Unity, Game Maker, Shiva, Big world and App Game kit. It was very intresting & interactive session, he also shared his own experience how he self motivated to start a game development business and its success.

"THE PROBLEM OF VIRUSES IS TEMPORARY AND WILL BE SOLVED IN TWO YEARS."

— JOHN MCAFEE, 1988



### PYGAME

CODING CLUB



#### REGULAR CLUB ACTIVITY

Students have practiced programs using pygame. Students learned about Installing pygame, set\_mode function set\_caption function, blit function,load function,fill function, update function, quit function and clock function.



"I DON'T KNOW WHAT THE LANGUAGE OF THE YEAR 2000 WILL LOOK LIKE, BUT I KNOW IT WILL BE CALLED FORTRAN." — CA HOARE, 1982



## MACHINE LEARNING

INTELLIGENCE SYSTEM CLUB





#### **GUEST LECTURE**

MR.CHANDRAKUMAR MURUGESAN, CEO, TECH LEAD, AXCENSA TECHNOLOGIES PVT.LTD

The lecture was conducted on the topic "Machine Learning for Small and Medium Companies". He briefed the students about the concepts related to Machine Learning applications and how machine learning is implemented in IoT, Chatbot and other industrial applications. It was an enlightening session as he shared real life experiences and told the students about the importance of challenges in Artificial Intelligence.

PROGRAMS MUST BE WRITTEN FOR PEOPLE TO READ, AND ONLY INCIDENTALLY FOR MACHINES TO EXECUTE.

- H. ABELSON AND G. SUSSMAN (



## **COMPONENTS OF IOT**

INTELLIGENCE SYSTEM CLUB





### REGULAR CLUB ACTIVITY

MR.BALAJI, FINAL YEAR CSE, PEC

The Activity addressed with the brief introduction about existing projects of IoT done in the previous semester with the Soil Moisturizer project demonstration by Mr.Balaji, Final Year CSE, got placed in IBM, working in the project of CSIR related to agriculture and Mr.Sasivardhan, Third Year CSE, Student Co-Ordinator of the club, students had very good interaction with them and clarified their doubt regarding emerging technologies in IoT.

TODAY, MOST SOFTWARE EXISTS, NOT TO SOLVE A PROBLEM, BUT TO INTERFACE WITH OTHER SOFTWARE.

- I. O. ANGELL



## STRUTS AND SPRINGS

WEB TECH CLUB





## INDUSTRY EXPERTINITERACTION

MR. VIJAY PARTHASARATHY , IT ANALYST , BANK OF AMERICA (IT SECTOR)

Struts is an application development framework that is designed for and used with the popular J2EE (Java 2, Enterprise Edition) platform. It is non-proprietary and works with virtually any J2EE-compliant application server. Struts falls under the Jakarta subproject of the Apache Software Foundation and comes with an Open Source license.

"THE BEST WAY TO GET ACCURATE INFORMATION ON USENET IS TO POST SOMETHING WRONG AND WAIT FOR CORRECTIONS."

— MATTHEW AUSTER



## C# .NET

CODING CLUB







# INDUSTRY EXPERT INTERACTION

MR.VENKATASUBBU,
SENIOR SYSTEM ENGINEER,
ADRENALINE POLARIS GROUP
COMPANY

Mr.Venkatasubbu has shared his knowledge of C#,.NET, how to embed html with C#, how to connect Database with C# .NET. The main motto of the session was "Empowering human energy with technology". He demonstrated the working of his own workflow services, with a live application. Students gained a basic knowledge of Real Time Application of Software Development Companies.

"IT'S OK TO FIGURE OUT MURDER

MYSTERIES, BUT YOU SHOULDN'T NEED

TO FIGURE OUT CODE. YOU SHOULD BE

ABLE TO READ IT."

— STEVE MCCONNELL



# PROBLEMS FACED BY THE FARMERS

ACS CLUB





# AGRICULTURAL VISIT

ACS Club students visited Magaral Village for the field trip, students interacted with farmers and came to know about their life style, discussed about their need which is related to agriculture and made survey of it.

#### PROBLEMS FACED BY FARMERS:

- 1.To avoid pest and pig in fields
- 2. Insurance problems
- 3. Storage bags or tanks are used
- 4. Price factor

#### **FERTILIZERS:**

The farmers using fertilizers for fields it's not good for human health they know that but also they using some fertilizers to their crops for growth because of demand of water and natural fertilizers

"PROGRAMMING CAN BE FUN, SO CAN CRYPTOGRAPHY; HOWEVER THEY SHOULD NOT BE COMBINED."

— KREITZBERG AND SHNEIDERMAN



## DETECTION OF BUGS

C- SEC & E- HACK CLUB





# INDUSTRY EXPERT INTERACTION

ALUMNI MR. PRAVEEN KUMAR

MHe explained how to develop web application and identifying bug in the application. He demonstrated different methods of bug boundry program and challenging faced.

He explained Virus and Malicious Code and its types. He also covered Computer Virus, Worms, Trojan Horses, Spyware & Adware, Rootkit, Active Content, Zombies and Botnets. Scareware

"IF YOU HAVE A PROCEDURE WITH TEN PARAMETERS, YOU PROBABLY MISSED SOME."

— ALAN PERLIS

OPEN HOUSE IDEAS - 3



## EMERGING TECHNOLOGY

CSE DEPARTMENT





#### **GUEST LECTURE**

MR.UTHAYASHANKAR, DIRECTOR OF INNOVATION IN OOMSYS. UK.

The lecture was conducted on the topic "Emerging Trends in Technology". He briefed the students about the Trends in IT Sector and explained about how our society has evolved over the years. Later he explained about the advancement and application of information technology is ever changing. It was an enlightening session as he shared real life experiences and told the students about the importance of Digital Transformation. It was a learning and interactive session for the students where he answered all the queries put up by the students to their full satisfaction.

"THE BEST WAY TO PREDICT THE FUTURE IS TO IMPLEMENT IT."

— DAVID HEINEMEIER HANSSON

A LOUK AT THIS ISSUE:

OPEN HOUSE IDEAS - 3



### **FOSS**

FOSS CLUB





# INDUSTRY EXPERT INTERACTION

MR. P. RAMAN, SENIOR MEMBER OF INDIAN LINUX USER GROUP CHENNAI (ILUGC).

He gave the brief introduction about

- · What is Free and Open Source Software?
- · Why FOSS?
- · What are the advantages of FOSS?
- · Various Forums in which students can participate.
- · Project ideas.
- · Career opportunity in FOSS.
- Demonstrate Linux, Blender and sample source code in Open Source Software.

  Finally, Ms. R. Kannamma, Club coordinator concluded the session by thanking the guest for his presence and addressed about forthcoming events.

"TODAY, MOST SOFTWARE EXISTS, NOT TO SOLVE A PROBLEM, BUT TO INTERFACE WITH OTHER SOFTWARE."

— IO ANGELL



# COMPUTATIONAL INTELLIGENCE

INTELLEGENCE SYSTEM CLUB







## INDUSTRY EXPERT INTERACTION

MRS.DOREEN ROBIN, DIRECTOR OF COMPUTATIONAL INTELLIGENCE RESEARCH FOUNDATION

The program began with a brief introduction about the chief guest Research works. Mrs. Doreen Robin shared her knowledge on computing intelligence, with the basics of artificial intelligence. She described about the top 10 programming languages in current trend and she proceeded to teach about the latest Google products.

Later she described about big data and she represented the important concepts involved in processing large amount of data.

"IF THE CODE AND THE COMMENTS DO NOT MATCH, POSSIBLY BOTH ARE INCORRECT."

-- NORM SCHRYER



# INDUSTRY EXPERTINGED INTERACTION



#### CLOUD COMPUTING CLUB:

BY MR. KAILASH, C-DAC

Cloud Computing Club organized a IEI on "Cloud computing technologies" by Mr. KAILASH, C DAC, students from IT / CSE department participated and enriched their knowledge towards computing. .

The session was started at 10.00 am by the guest speaker about the topics Cloud basic tools, Virtualization and uses of Virtualization, Middleware components, how to register with cloud on free of cost. It was interactive session and students got benefited by knowing the concepts cloud and various tools in cloud. Started with basics of cloud computing concepts such as what is cloud, services offered by cloud, benefits of cloud computing in the form of scalability and performance, architecture of a cloud computing

Next the industry expert explained about how cloud computing differs from grid computing.

COMPUTER SCIENCE IS NO MORE
ABOUT COMPUTERS THAN
ASTRONOMY IS ABOUT TELESCOPES



# INDUSTRY EXPERTINGED INTERACTION

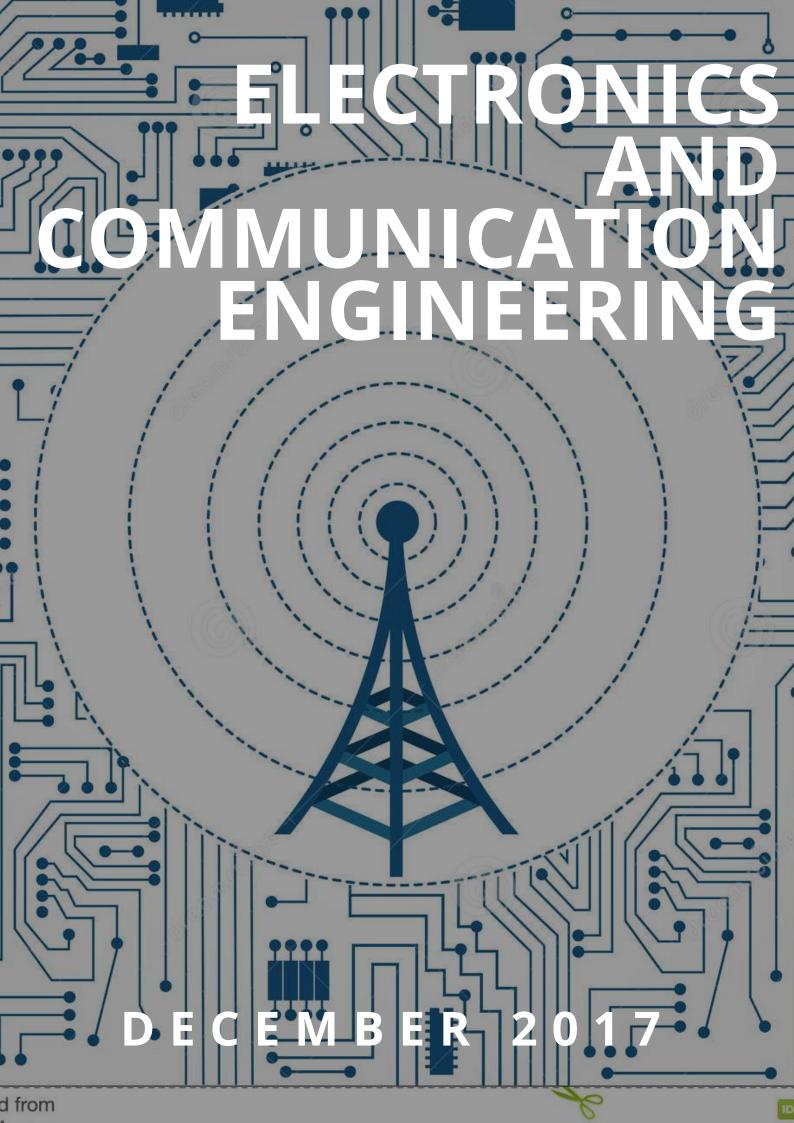




#### CLOUD COMPUTER CLUB

NCloud Computing Club organized a hands on session "Amazon Web Services " by Mr.Balaji, HP technologies for the students from IT / CSE department participated and enriched their knowledge towards cloud computing basics and amazon web services. The session was started at 12pm by the guest about the basic knowledge in cloud computing and amazon account creation, Cloud basic tools. Virtualization and uses of Virtualization, Middleware components, how to register with cloud on free of cost. It was interactive session and students got benefited by knowing the concepts cloud and various tools in cloud

"THE QUESTION OF WHETHER A COMPUTER CAN THINK IS NO MORE INTERESTING THAN THE QUESTION OF WHETHER A SUBMARINE CAN SWIM."





## 3D PRINTING

RETECH SOLUTIONS, CHENNAL

#### TRAINING REPORT

III YEAR STUDENTS

- Third year students attended the training on 3D printing in RETECH Solutions from 28.11.2017 to 08.12.2017.
- The following topics were covered about 3D printing technology Introduction about 2D printing technology and its working principle
- Importance of Stepper and Servo motors in 2D printer
- Role of pulse width modulation in controlling the speed of the motor
- Introduction about 3D printer
- Desing of 3D products using Solid works software
- Role of Cura Software
- Mechanism to geneate Gcode
- · Role of printer interface in 3D printer
- Interior and exterior structure of stepper motor
- Basics of Embedded C Programming
- Shown videos about overview of constructing difference structures using solid works software
- Role of PID controller in maintaining constant temprature and speed
- Introduction about Proportional controller
- · Shown the models of BLDC motors.
- Introduction about UART, SPI, I2C, I2S and CAN bus
- Explained about difference types of sensors(Ultrasonic sensor, IR sensor, PIR sensor, Primary sensor)
- Explained the importance of Arduino controller
- Programming on ARDUINO IDE
- Programming on Raspberry Pi
- Programming on PIC Controller





## LITTLE-KNOWN WLAN ANALYSIS TOOLS NETWORK TROUBLESHOOTING BASICS

HARDWARE AND NETWORKING CLUB

#### WEBINAR REPORT ON LINUX IN THE INDUSTRY

Webinars titled Linux in the industry, Little Known WLAN Analysis Tools, Network
Troubleshooting Basics sessions are presented from 1.00 p.m to 3.00 p.m at IBM Cloud
Computing Lab, Collaboration Block, PRATHYUSHA ENGINEERING COLLEGE dated on 06-12-2017.
Session HighLights: Network Analysis Tools

NetSurveyor Professional: Monitor the reliability of a WiFi network using bandwidth metrics. Concurrently test and compare the performance and reliability of up to five (5) different 802.11 connections. NetSurveyor-Pro is distributed as freeware and does not require a license.

#### **Network Miner:**

NetworkMiner is a Network Forensic Analysis Tool (NFAT) for Windows. NetworkMiner can be used as a passive network sniffer/packet capturing tool in order to detect operating systems, sessions, hostnames, open ports etc. without putting any traffic on the network.

#### Device monitor:

Device monitor is an USB, Serial and Network Protocol analyzer data logger software and can be used to capture, log, view and analyze data coming to and out of your computer.

#### Acrylic WiFi Professional:

Acrylic WiFi Professional is the best WiFi analyzer software to identify access points and wifi channels, and to analyze and resolve incidences on 802.11a/b/g/n/ac wireless networks in real time

#### Cap Analysis:

CapAnalysis is a web visual tool for information security specialists, system administrators and everyone who needs to analyze large amounts of captured network traffic.



GREAT DESIGN
INSPIRATIONS COME
SUDDENLY ONLY IF
YOU WORK LONG
ENOUGH



# IC DESIGN AND FABRICATION AWARNESS

VLSI DESIGN CLUB





#### **INTERNAL SEMINAR**

II AND III YR STUDENTS

I bring to your kind notice that, we have conducted internal seminar eith the topic "IC DESIGN AND FABRICATION AWARNESS" for II and third year ECE students. The following topics were discussed in the seminar.

- Evolution of VLSI Design
- Types of Integrated circuits (IC's)
- Back end and Front end design technologies
- Tools used for VLSI technology
- Research idea in VLSI Domain
- ♦ Job offers in VLSI design

Be happy for this moment. This moment is your life.



### VOIP PHONES AND VONAGE ROUTERS

HARDWARE AND NETWORKING CLUB





#### INDUSTRY EXPERT INTERACTION

MS.SAHAYA MICHAEL ROSETTA. TECHNICAL SUPPORT MANAGER, CSS CORP., CHENNAI.

Ms.Sahaya Michael Rosetta, Technical Support Manager, CSS Corp., Chennai explained about VOIP phones and vonage routers. **VOIP** means Voice Over Internet Protocol will work only by internet. It has more advantages like calling video conference and disadvantages like security problem and sometimes signal will be poor. There are different types of internet connections. They are broadband, satellite, fiberoptic, DSL, cable connections. There are some basics of internet which have to learn to know about the VOIP. They are modem, routers, gateway and protocol, telephone adaptor, etc. VOIP phone is directly connected to modem, but traditional phone is connected through telephone adaptors.

Do not take life too seriously. You will never get out of it alive.



## WIRE SHARK

HARDWARE AND NETWORKING CLUB





## INDUSTRIAL EXPERT INTERACTION

MR.KARTHICK VIGNESWAR,
DIRECTOR & TECHNICAL ADVISOR,
INFYSEC, UK.

Mr. Karthick Vigneswar who is the director and technical advisor for INYSEC company had discussed about OSI[Open System Interconnection] and process undergoing in the network, in open system interconnection, data will be transferred step by step from application, presentation, session.

Wireshark is cross-platform, using the Qt widget toolkit in current releases to implement its user interface, and using pcapto capture packets; it runs on Linux, macOS, BSD, Solaris, some other Unix-like operating systems, and Microsoft Windows.

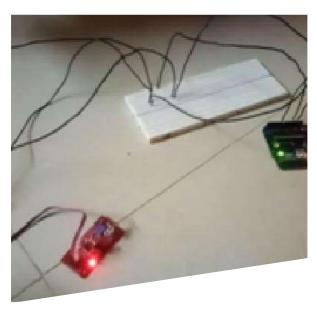
Because of your smile, you make life more beautiful



# INTERNAL TRAINING FOR EMBEDDED

ROBOTICS TECHNICAL CLUB





## INDUSTRIAL EXPERT INTERACTION

MR.KARTHICK VIGNESWAR, DIRECTOR & TECHNICAL ADVISOR, INFYSEC, UK.

On this day, students were practice themselves doing projects with arduino in hardware manner. They experience the hands-on using hardware components with arduino. The following activities are done the same day of training,

- · Arduino based.
- ♠ Motor control
- Keypad Interfacing
- PIR sensor based device control
- Digital Sensor Serial communication
- Analog Sensor Serial communication

Life is really simple, but we insist on making it complicated



## INDUSTRIAL VISIT





#### **TESLA MINDS**

BY MS.ARTHI MS.MOHANAPRIYA MR.JAYANANDAN

About 40 Students from third year of Electronics and Communication Engineering visited the tesla minds in Chennai. The industry deals about antenna design and manufacturing components.

.First session was given by Ms.Arthi, she handled about the antenna and the types and applications from this students ,they learned a lot about antenna. The medical applications also she discussed with students and about the radio pill(ingestable antenna) and biotelemetry applications, mainly about wearable antenna and in endoscopy applications. .Second session was given by Ms. Mohanapriya, she handled about design and requirements of low noise amplifier for antenna applications..Third session was given by Mr.Jayanandan, he handled about the EMI EMC.It is a major problem in present technology .LISN (Lin e impedance stabilization network is a technology used to rectify this problems.

## ALL THE WORLD IS A LABORATORY TO THE INQUIRING MIND.

-MARTIN H. FISCHER

## INDUSTRIAL VISIT





## FUTURE CALLS TECHNOLOGY

BY T. JAGANATHAN , MANAGING DIRECTOR

.Mr. T. Jaganathan explained about the basics of server, Info security. He detailed about certification courses CCNA, CCNP, MCSE, CISM, CISSP and the jobs related to Networking engineer, server administrator, Networking security engineer. He explained about the types of data networking i.e. Active and Passive. Passive networking is wiring a building before construction. One of the major components in passive networking is cable. The different types of cable are CAD6E, CAD6A, CAD5E etc.

.Students saw the server on which the company is working. They clearly clarified the doubts asked by the students regarding the server, about different boxes present in it, its storage, working, and about maintenance. They also explained about Tally software.

DUCATION IS SIMPLY THE SOUL OF A SOCIETY AS IT PASSES FROM ONE GENERATION TO ANOTHER.

-G.K. CHESTERTON



#### EMBEDDED & ROBOTICS TECHNICAL **CLUB**

#### INTERNAL TRAINING

BY MR.E.DILLIRAJ MR.L.PADMANABAN

- 1. Designing and developing LED interface with blinking
- 2. Developing servo/DC motor interfacing system.
- 3. Program and interfacing an LCD interface

Day 1:(3.00 - 5.00pm)

The session started with the basic presentation on embedded systems and its application by Mr.L.Padmanaban followed by programming concept of AVR Atmega8 microcontroller for interfacing the pheripheral devices . LCD interfacing by Mr.E.Dilliraj.

The session covers the following topics.

Introduction to ATmega8 / ATmega2560 Microcontroller



- ATmega8 / ATmega2560 Hardware **Details**
- · IO Device Interface and practical
- Traffic Light controller using proteus
- Simple motor controller using proteus Day 2:(3.00 - 5.00pm)

The session started with the summary of day 1 highlights by Mr.E.Dilliraj, given a brief account on proteus software for simulating the designed circuits. Which covers the following topics,

- Traffic Light controller using proteus
- Simple motor controller using proteus
- Interfacing of Servo/DC motors with Atmega8

WE ARE ALMOST ALIVE WHEN WE'RE IN LOVE.



#### **NEURAL NETWORKS TOOL BOX**

#### MATLAB CLUB

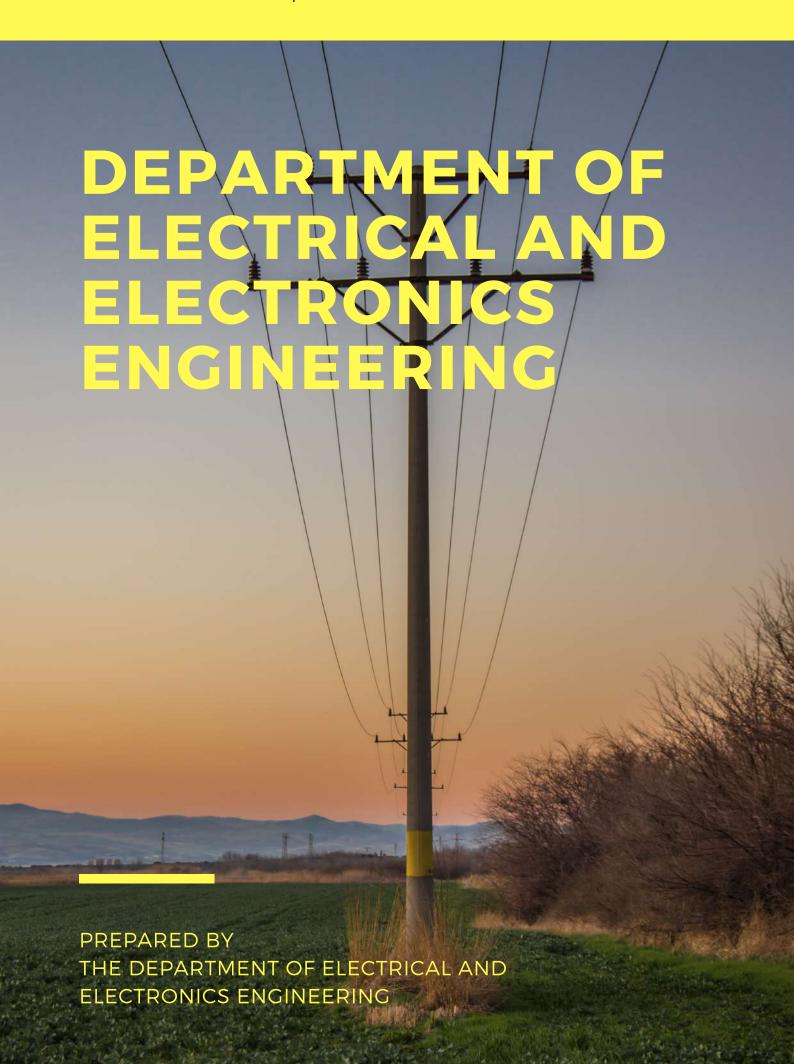
BY DR.S.HEMAJOTHI,PROFESSO R/ECE

Artificial Intelligence(AI) is a way of making a computer, a computer-controlled robot, or a software think intelligently, in the similar manner the intelligent humans think. AI making machines which can copy human intelligence and act like human. Advantages and disadvantages of AI were also discussed.

Neural network architecture was clearly explained. Fixing of crisp inputs, computation in the hidden layer & desired output were discussed. Examples of neural network were shown. Different types of learning such as Supervised & unsupervised were taught clearly with examples. Complications in the computations were also discussed. Test set and training set data were explained clearly.

Resemblance of neural network with human brain was discussed in the following ways. A neural n/w acquires knowledge through learning. A neural networks knowledge is stored within the interconnection strengths known as synaptic weights.

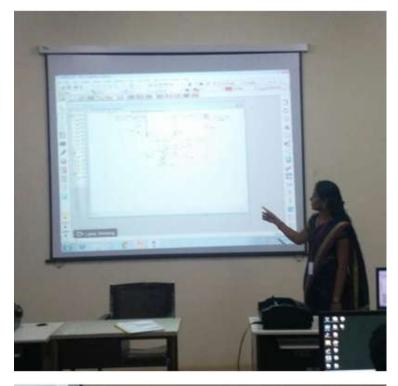
THERE IS ONLY ONE HAPPINESS IN THIS LIFE, TO LOVE AND BE LOVED.

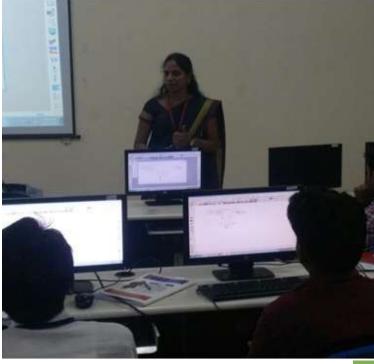


#### PRATHYUSHA ENGINEERING COLLEGE

## LOAD FLOW ANALYSIS OF POWER SYSTEM HANDS ON TRAINING

ETAP SOFTWARE





#### HANDS ON TRAINING PROGRAM USING ETAP SOFTWARE

BY MS.MATHUMATHI.T ASSISTANT PROFESSOR/EEE

- By Learning ETAP software students can
- can able to get the job Opportunities like
- Senior Design Engineer, Power
   System Engineer and
   Maintenance Engineer, etc
- Power Modeling of a three bus system and Load Flow analysis of 3 bus system using ETAP software.

## "ELECTRICITY IS REALLY JUST ORGANIZED I IGHTNING"

— GEORGE CARLIN



#### PRATHYUSHA ENGINEERING COLLEGE

## MINUTES OF TECHNOLOGY UPDATE MEETING ODDEDING





#### SPHERICAL SUN POWER GENERATOR

BY MS.SHANTHINI MERLIN ASSISTANT PROFESSOR/EEE

Spherical sun power generator is An alternative to Photo voltaic panel. It is an Most efficient solar energy production system. It is Technically called as Beta Ray.

Spherical sun power generator has a 360 degree trapping spherical glass ball. it is an optical sun tracking solution to conserve the solar power in buildings. It is a concentrated photovoltaic and concentrated thermal module of Rawlemon LTd.

"ENTHUSIASM IS THE ELECTRICITY OF LIFE. HOW DO YOU GET IT? YOU ACT ENTHUSIASTIC UNTIL YOU MAKE IT A HABIT."

-GORDON PARKS

## ESTD. 2001

## SHORT CIRCUIT ANALYSIS OF POWER SYSTEM USING ETAP SOFTWARE

Ms.Mathumathi.T, Assistant Professor/EEE





Modeling of three bus system and load flow analysis:

The generator bus, slack bus and load bus are given in the network, load flow analysis were carried out and real power, reactive power, Voltage magnitude and Phase angle were determined. The Report was obtained for load flow analysis.

Modeling of three bus system and fault analysis:

Symmetrical Fault Analysis: To estimate the magnitude of three phase short circuit current and Voltage across the three buses system during three phase fault.

**Unsymmetrical Fault Analysis:** 

To estimate the magnitude of short circuit current and Voltage across the three bus system during single line to ground fault, Double line to ground Fault and Line to line fault.

The Reports were obtained for both balanced Fault and unbalanced fault.

THE WALLS BETWEEN ART AND ENGINEERING EXIST ONLY IN OUR MINDS.

-THEO JANSEN



## SOLAR ON PHOTOVOLTAIC POWER GENERATION

Green Energy Club (IEI).





#### GREEN ENERGY CLUB

MS.T.VISALAKSHI & MS.T.CHITRADEVI

This IEI was formally inaugurated and the coordinator welcomed the gathering and introduced the Chief guests. The Head of the department felicitated the guests with small momento.

- Need of renewable energy resources .
- Various types of renewable energy resources and their power generation systems.
- Scope of Renewable energy resources especially Solar PV systems.
- Courses available to upgrade the skills related to the Solar PV systems.

"THERE IS A FORCE MORE POWERFUL THAN STEAM AND ELECTRICITY: THE WILL."

— FERNÁN CABALLERO

## INDUSTRY AUTOMATION USING SENSORS

Instrumentation and Control Club Ms.S.Shobana . Mr.Somasekar



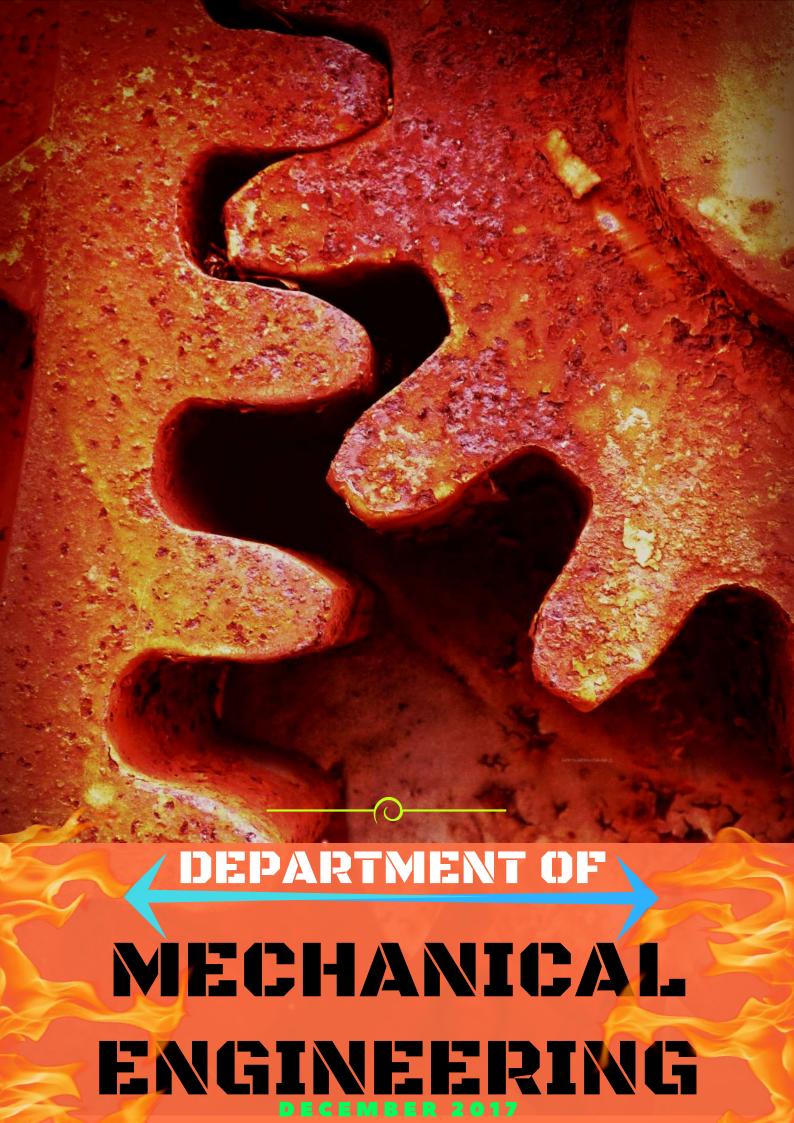
## INDUSTRY EXPERT INTERACTION

BY: MR.RAJASEKAR JAYAKUMAR

In the IEI, the industrial experts discussed the various types of sensors and their application in Automation industries. He also explained the process of how to do MSME projects. Students interacted well during the session as many of the students are doing their mini projects using sensors.

"LIFE IS LIKE ELECTRICITY, ANYONE CAN SHOCK YOU"

- GENEREUX PHILIP





## INTERNAL SEMINAR

CNC DOMAIN CLUB



#### SEMINAR TO THE CNC CLUB STUDENTS



## INTRODUCTION TO CNC

BY DR.P.JAYARAMAN, PROFESSOR HOD OF MECHANICAL

The CNC Technical domain club has organized internal Seminar on 26th Dec 2017 for CNC club students of Mechanical Engineering. The title was on "Introduction to CNC" which was conducted by Dr.P.Jayaraman, Professor & Head Of Department of Mechanical Engineering. The seminar was conducted between 2 pm to 3 pm.

The following topics were interacted

- ~About CNC functions
- ~Types of program used
- ~Tool selection based on work piece material
  - ~Steps to write program
  - ~Basic CNC maintenance

Through this seminar the students gained the basic knowledge about working on CNC

There is no elevator to success, you have to take the stairs



### **GUEST LECTURE**

CATIA CLUB



#### IEI-INDUSTRY EXPERT INTERACTION

BY MR.S.RAMESH.

GENERAL MANAGER (RETIRED)

ASHOK LEYLAND LTD. CHENNAI



The catia domain club conducted a guest lecture for the mechanical engineering students on 27th december 2017 at the main block seminar hall.

The following topics were covered during the lecture:

- \* PRODUCT LIFE CYCLE MANAGEMENT
- \* DESIGN OF PUNCHING SHEET METAL
- \* PRODUCT DESIGN AND DEVELOPMENT
- \* DESIGN OF CASTING PART



Keep your eyes on the stars, and your feet on the ground.

#### INDUSTRY EXPERT INTERACTION

PRO-E / ANSYS CLUB





#### WORKSHOP

BY MR D BABU

RESEARCH DEVELOPMENT DEPT,

MIP ALLOY SRIPERUMBUDUR.

The department of mechanical engineering arranged a industry expert intraction for the 3rd year students on 18 december 2017 at the CAD lab.

The following topics are interacted:

- 1 Product design
- 2 Design skill for industry
- 3 Classification of industry
- 4 Industry culture
- 5 Industry environment
- 6 Factory act
- 7 Bonus act
- 8 Welfare act
- 9 MSME
- 10 Entrepreneurship development institution

Problems are not stop signs, they are quidelines.



#### **SAE INDIA**

SOUTHERN SECTION







#### STUDENT CONVENTION

Student convention (TIER II) of the year 2017-2018 was held at T.J.S Engineering college on 23rd december 2017.

Student Convention is special in the Calendar of SAEINDIA Southern Section as this involves the stake holders of the future, our student community. During the past 10 years the convention has been growing in size and popularity as this enables us to engage large sections of our student members through competitions and events spread over 3 Tiers viz, College level(Tier 1), Divisional level (Tier 2) and Main Convention(Tier 3).

Mechanical students won 15 prizes in the competition.

- \* 1st place-12
- \* 2nd place-3
- \* 3rd place-3

It always seems impossible until it's done

### DEPARTMENT OF CIVIL ENGINEERING



DECEMBER 2017



## VALUABLE GREEN ENERGY SOURCES

A ENVIRO CLUB INITIATIVE





#### **GUEST LECTURE**

BY MR.SIDDHARTH M RAO,
ASSISTANT MANAGER OF LARS
ENVIRO PVT LTD

A guest lecture on "VALUABLE GREEN ENERGY SOURCES" ON 15/12/17 by Mr.Siddharth M Rao, Assistant Manager of Lars Enviro Pvt Ltd for II Mechanical and Civil Engineering students. The session was very informative regarding Bio gas energy. It was a detailed session of Bio energy for different sources like domestic waste for houses, colleges and also for industries.

He briefly gave an outline on the bloom of Bio energy i.e green energy for the next years. He also listed the opportunities for Civil and Mechanical students in Bio gas plant, Students discussed the possibilities for attending In-plant training and job opportunities in the future. Over all a very informative session regarding green energy sources.

CONCRE(A)TE



## PLANNING, DESIGN & DETAILING AND QUANTITY SURVEY OF STRUCTURES





#### **GUEST LECTURE**

BY MR. GUNA PARAMASIVAM, GMD CIVIL SOLUTIONS

The department of Civil Engineering had organized Guest lecture on "Planning, Design & Detailing and Quantity survey of structures" on 05 Dec 2017. This Guest lecture was organized to create awareness among Final year students about the various aspects of planning, design of structures in Civil Engineering.

Mr. Guna Paramasivam from GMD CIVIL SOLUTIONS presented the features of Planning, Design & Detailing and Quantity survey of structures in Civil Engineering.

The program was useful to the students as importance of Planning, Design & Detailing and Quantity survey of structures was explained. At the end of the lecture, various job opportunities in Civil Engineering field were explained to the students.

WE DO WHAT BIRDS CAN DO. LITERALLY



## BUILDING INFORMATION MODELING (BIM)

The CAD club & Architectural club





### INDUSTRIAL EXPERT INTERACTION

BY MR. SATHIK RAJA.

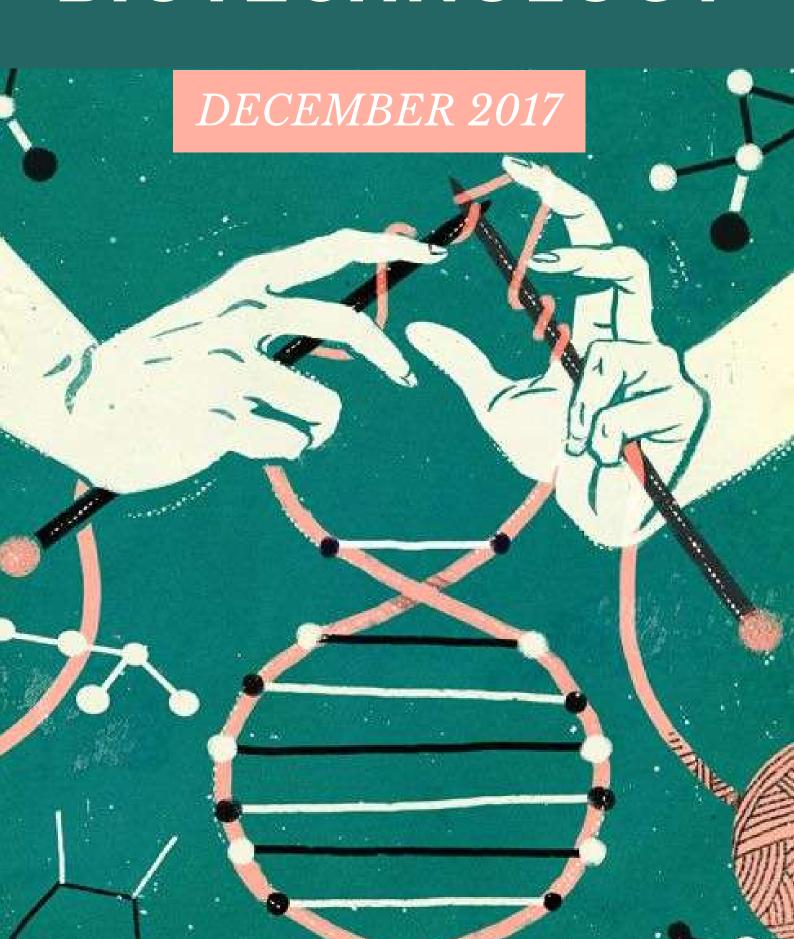
The department of Civil Engineering has organized IEI on "Building Information Modeling (BIM)" on 30 Dec 2017. This IEI is organized to create awareness among CAD club & Architectural club students about BIM software in Civil Engineering.

Mr. SATHIK RAJA from presented the features of Building Information Modeling (BIM) in Civil Engineering.

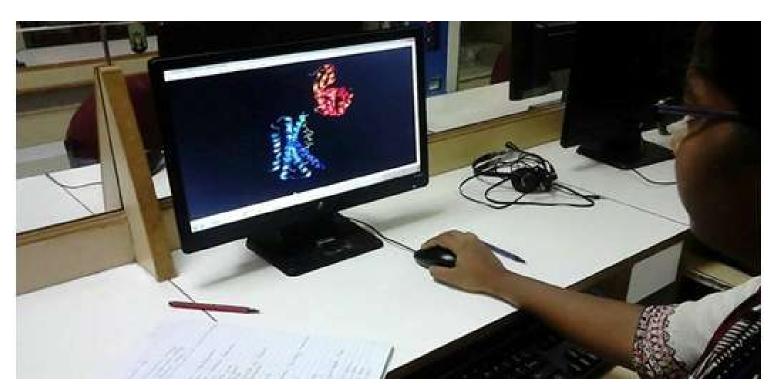
The CAD club & Architectural club students and staff members were attended the program. The program was useful to the students as importance of Building Information Modeling (BIM) was explained. At the end of the lecture, various job opportunities in BIM were explained to the students.

SCIENTISTS STUDY THE WORLD AS IT IS, ENGINEERS CREATE THE WORLD THAT HAS NEVER BEEN

## DEPARTMENT OF BIOTECHNOLOGY



# MOLECULAR DOCKING IN DRUG DISCOVERY PROCESS



#### **TRAINING**

BY DR. A. PRAVEENA
ASSISTANT PROFESSOR,
DEPT OF BIOTECHNOLOGY

The training program was
organized by the Bioinfotech
club on 07.12.2017 by 12.50 pm 3.05 pm at bioinformatics
lab.Totally 12 students were
benefitted with this training.

The training was made in to two sessions. The first session was carried out with the introduction of molecular docking, steps involved in docking, basic learning of docking in drug discovery process and the tools required for it. The second session was completely a training session. The students trained to utilize the biological data sources from the web sources for the data retrieval.

Biotech appeared to be a defensive play

## INDUSTRY EXPERTINGED INTERACTION



"IEI cum Guest Lecture" on "Mass spectrometry: A brief technology and application - Overview" by Dr. G. Venketesan, Senior Business Development Manager, BrukerDaltanics, Chennai on 13.12.2017.

#### **GUEST LECTURE:**

Students gained knowledge about the developing modern technology of mass spectrometry and its types currently used in the field of life sciences Mass spectrometry is applicable across diverse fields, including forensic toxicology, metabolomics, proteomics, pharma/biopharma, and clinical research. Specific applications of mass spectrometry include drug testing and discovery, food contamination detection, pesticide residue analysis, isotope ratio determination, protein identification, and carbon dating. Some application areas in which mass spectrometry has been used to discover, deduce, and quantify sample compounds. Applications of mass spectrometry in proteomics - Characterization of proteins and protein complexes, sequencing of peptides, and identification of posttranslational modifications.

Biotechnology has the potential to bring tremendous benefits

## MUSHROOM CULTIVATION



#### **WORKSHOP:**

BY DR. A. USHA RAJA NANTHINI, ASSOCIATE PROFESSOR, MOTHER TERESA WOMEN'S UNIVERSITY.

#### Day 1:

The first day of the workshop helped to understand the difference between edible and poisonous mushroom and also about its origin. We also learnt how to prepare the mycelium form mushroom.

#### Day 2:

The second day of the session, started with greater excitement. At first, we came to known about the requirements to set up the small scale and large scale industry with the required documents. She explained the science index journals and also the importance of publications. Next, the practical and interactive session starts, in which all students experimentally practised mushroom cultivation and also the preparation of mother spawn.

"GROW MORE MUSHROOM AND EARN MORE MONEY"

# FACULTY DEVELOPMENT PROGRAM (FDP)

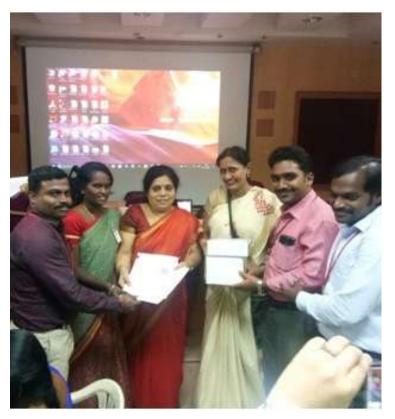


DECEMBER 2017



#### E-YANTRA ROBOTICS

FACULTY DEVELOPMENT PROGRAM





#### WORKSHOP

BY DR. SARASWATHY, IIT BOMBAY

The workshop was conducted by Anna University, CEG Campus. It was a two day workshop attended by Mr. E. Dilliraj, AP/ECE. Mr. J. Yuvaraj, AP/ECE, Mr. R. Ajin, AP/ECE, Ms. S. Subbulekshmi, AP/ECE.

"A GREAT EMPLOYEE IS A FOUR LEAF CLOVER, HARD TO FIND AND LUCKY TO HAVE"



## 'BIOLOGICAL APPLICATIONS OF NANOPARTICLES'-ICON-BIO2017

FACULTY DEVELOPMENT PROGRAM





## INTERNATIONAL CONFERENCE

BY MR. SAM SANTHOSH, PRESIDENT OF MAGGENOME TECHNOLOGIES PVT.LTD, DR. PETER KOPSANCKY, DIRECTOR, INSTITUTE OF EXPERIMENTAL PHYSICS, SLOVAKIA UNIVERSITY, PROF .V. METHA, BHAVNAGAR UNIVERSITY, PRESIDENT SAKSHIN LIFE SCIENCES, DR. T.P, SINGH, PROFESSOR.

This conference was conducted by IIT Madras giving an opportunity to the students to have contact with scientists and shared thier view and project idea with them. Poster session about magnetic nanoparticles was also quite interesting. Our students (Dharanyaa, Yuktha, Priyadharshini and Navaraj) and faculty (Dr.S.Sathya and Ms.Joyce Hellen Sathya) also presented poster in the ICON BIO 2017.

"BECOMING IS BETTER THAN BEING"



## "TEACHING AND LEARNING ENHANCEMENT THROUGH OUTCOME BASED EDUCATION"

FACULTY DEVELOPMENT PROGRAM

#### **LECTURE**

BY DR.P.MALLIGA ASSOCIATE PROFESSOR, SR. SYSTEM ANALYST, HEAD I/C. NITTTR

The lecture was on Technology enabled Learning. It was attended by P. Malathi, ECE Dept Asso. Professor

Dr.V.Balaji/MECH Dept Asso.Professor, Mr.T. Rubesh Kumar,ECE Dept,Asso.Professor. It was a two day program which took place at Seminar Hall, 3rd Floor, New Block, PEC. The lecture covered the following topics

- 1. Enhancement to transformation through technology enabled learning
- 2. Skills required for 21st century Teacher
- 3. 4C's required for NBA
- 1. Communication 2. Collaboration 3. Critical thinking 4. Creativity
- 4. Higher Order Thinking Skills
- 5. Faculty should be facilitators for students to enable self learning.
- 6. Provide critical thinking assignments
- 7. Provision of Group Exercises.
- 8. Trigger the stimulus of the students every 7 min by breaking the monotony of teaching

"INTELLIGENCE IS THE ABILITY TO ADAPT TO CHANGE"

#### WELD INDIA 2017

FACULTY DEVELOPMENT PROGRAM

#### **EXHIBITION**

Weld India 2017, a 3-day International Welding Technology covers Arc Welding, Solid State Process, Brazing, Soldering, Adhesive Bonding, Plastic Welding, Metallurgy, Materials Testing Techinques including NDT, Health & Safety, Robotics & Automation, Beam Processes & Special Processes like Nano Joining and other Allied Fields.

More than 200 high profile exhibitors from across the globe and over 10,000+ key trade visitors are participated at WELD INDIA 2017, The Gateway to India's Booming Welding Industry.

The exhibition was attended by Dr.Arun/ Professor Dr.V.Jayaseelan/ Professor, Mechanical department. It was a three day program which took place at Chennai Trade Centre.

> "TALENT WINS GAMES, BUT TEAMWORK AND INTELLIGENCE WINS CHAMPIONSHIPS"



## GE8292 — ENGINEERING MECHANICS

FACULTY DEVELOPMENT PROGRAM

#### FNP

The program was conducted by St. Joseph's Institute of Technology, Chennai. G.Venkatkumar, Associate Professor in Mechanical Engineering Department attended the program.

On the first day session Dr.A.AROCKIARAJAJAN (Associate Professor, Dept of Applied Mechanics, IIT Madras) has inaugurated and delivered wonderful lecture on Equilibrium of Rigid Bodies in 2D and 3D. He has explained the Introduction about engineering mechanics, free body diagram, types of supports, action and reaction forces, stable equilibrium, moments and couples.

On the second day session Dr.S.RAGAVANANTHAM (Assistant Professor, AU-FRG Institute for CAD/CAM, Anna University, Chennai) has delivered wonderful lecture on properties of surfaces and solids. He has explained centroids

"WHEN I LET GO OF WHAT I AM, I BECOME WHAT I MIGHT BE"



## ON ANALYSIS & DESIGN OF R.C.C. BLDG. WITH DETAILING

FACULTY DEVELOPMENT PROGRAM

#### WORKSHOP

The workshop was conducted by the department of civil engineering, S A Engineering college. It was atwo day workshop attended by R Saleema Begum.

"THE QUESTION ISN'T WHO'S GOING TO LET ME; IT'S WHO IS GOING TO STOP ME?"



#### **NDT 2017**

FACULTY DEVELOPMENT PROGRAM

#### **EXHIBITION**

NDE - National Exhibition on Non Destructive Evaluation 2017 was held on 14-16 Dec 2017 in Chennai, India. Conference and Exhibition on NDE is one of the most important annual engineering events in India. The conference provides an effective platform for NDE professionals from all over the world to meet and exchange ideas. It helps in sharing information of interest to NDE community. Eminent NDE experts from various national and international industries participate in this seminar along with research institutions and academia.

The exhibition was attended by Dr.Arun/ Professor, ECE. It was a one day program which took place at Chennai Trade Centre.

> "LEADERS CAN LET YOU FAIL AND YET NOT LET YOU BE A FAILURE"



#### **DIGITAL MARKETING**

FACULTY DEVELOPMENT PROGRAM

#### WORKSHOP

BY EDU2020, Mr. Dharanidharan, CEO of Social Eagle.

Digital Marketing workshop was conducted on Social Eagle premises, T Nagar, Chennai.

First session started at 9.30 am, importance of digital marketing was clearly explained. The need of digital marketing, its scope and benefits was clearly elaborated. Also we were asked to explain what we expect from the workshop. Second session started with content management for advertisements. Creating content includes so much amount of back work to be done. Effort creating any advertisements there are something that need to be evaluated. It includes finding out what type of users we are focusing through this add, what is thei expectation and in what ways they get fear of buying the product and so on. So we were able to understand how to create an add focusing on the target users. An activity was given and we were divided into two teams and were asked to carry out to develop content for a saree boutique. After completing the activity discussior was done to improve our content and refined to better form.

Last session included creating advertisement through twitter account and LinkedIn..

"THE QUESTION ISN'T WHO'S GOING TO LET ME; IT'S WHO IS GOING TO STOP ME?"



## RESEARCH METHODOLOGY AND DOCUMENTATION

FACULTY DEVELOPMENT PROGRAM

FDP

BY Dr. R.M.Shareef ,Dr.Gayathri devi,Dr,SridhaR, Dr. Prof.Achuthsankar S,nair, Dr.Elizabeth sherly

Mrs. I. R.Saleema begum, Assistant Professors/ Civil department had participated in the Faculty development Program on held at College of Engineering . Trivandrum.

"THE ONLY WAY TO ACHIEVE THE IMPOSSIBLE IS TO BELIEVE IT IS POSSIBLE"



# ENTREPRENEURSHIP DEVELOPMENT CELL (EDC)

"THE TRUE ENTREPRENEUR IS A DOER NOT A DREAMER"

DECEMBER 2017



## NEN COURSE 100

Entrepreneurship Development Cell





#### **WFNEN 100**

BY MS.A.MALLIGA,AP/EEE & MR.SELVAKUMAR,AP/MECH

**NEN (National Entrepreneurship** network inspires, educates, and supports entrepreneurs to create high-value companies and jobs. NEN creates city-based entrepreneurial ecosystems consisting of institutes that teach entrepreneurship and network of mentors, investors, and incubators that support startups and SMEs. NEN also aims to create worldclass innovation ecosystems in critical sectors of high importance in India through govt. supported innovation grants to 25,000 companies over five years as part of the Startup and Small Business Innovation initiative (SSBI).

The cousre was conducted for 21 students at the mechanical department smart room.

"LIFE IS TOO SHORT TO BE WORKING ON SOMEONE ELSE'S DREAM"



## ICT ACADEMY

Innovate...Collaborate...Educate

DECMEBER 2017



#### FDP ON LEADERSHIP SKILLS

Organised by: ICT Academy.



#### 2 DAY FDP ON LEADERSHIP SKILLS

TRAINER - MR JINO JOSE ICT ACADEMY

It is an executive program where individuals are challenged personally and organisationally as they reflect on and develop their leadership capabilities while working on major tasks. Leadership skills are the tools, behaviours and capabilities that a person needs in order to be successful in motivating and directing others. True leadership skills also involve the ability to help people grow in their own abilities. It can be said that the most successful leaders are those who drive others to achieve their own success

#### Program content

- · Attributes of leadership
- · Skills of an effective leader
- · Core traits of a leader
- · Leaders and managers
- · Leadership vs management matrix
- · The language of a leader
- · Leading by example

SPEAK WHEN YOU GET THE STAGE