

e M A G  *P E C*

Ανώνυμος





MONTHLY MAGAZINE

1

JANUARY 2018

XAMARIN

Mobile App Development Club



TRAINING

MR. SOORIYAN & MR. MOHANLAL

• Pre-Final students explained about the following concepts in Xamarin.

Briefing about Mobile Application Development Club

- Importance of Cross Platform Independent Tool Xamarin
- Xamarin Forms
- Splash Screen
- Database Connectivity
- ASP.NET



“C IS QUIRKY, FLAWED, AND AN ENORMOUS SUCCESS.”

- DENNIS M. RITCHIE

C# .NET

CODING CLUB & MOBILE APPLICATION DEVELOPMENT CLUB



INDUSTRY EXPERT INTERACTION

- MR.SATHYA, HR, SLN TECHNOLOGIES
 - MS.ABIRAMI, SOFTWARE DEVELOPER, SLN TECHNOLOGIES.
 - MR.SURENDHAR, TRAINING CO-ORDINATOR, SLN TECHNOLOGIES.
-
- Initially the session was carried over by Ms.Abirami. She gave a clear introduction to .NET. She demonstrated about the .NET FRAMEWORK, and she also told the students about the programming languages supported by .NET and she moved on to the C#, Presenting the evolution and introduction of C#.
 - She interacted with student about the features of C# , they are simple, modern, object-oriented, type safe, compatible, secure.



“REAL KNOWLEDGE IS TO KNOW THE
EXTENT OF ONE’S IGNORANCE.”
— CONFUCIUS

PYTHON OPPORTUNITY IN INDUSTRY

CODING CLUB

INDUSTRY EXPERT INTERACTION

Mr.Selva , Lead Engineer, Msys Technologies

Mr.Sanjay Rajeshwaran, Software Engineer, Zucumber Inc

The session was carried over by Mr.selva stating the characteristics of python which is the high level language, multipurpose language with dynamic semantics , dynamic binding, reliable having code re-usability.He gave a true vision on python supporting platforms and trending technologies.



“SIMPLE THINGS SHOULD BE SIMPLE, COMPLEX THINGS SHOULD BE POSSIBLE.”

ARCHITECTURE OF WEB

WEB-TECH CLUB



INDUSTRY EXPERT INTERACTION

- Mr. Shankar Krishnaiah
- Senior Solutions Architect ,Travelex Financial services had an interactive session with students on the topic of Web

Architecture.

She delivered the topics on Software Engineering Methodology and also difference between Agile and Waterfall models and explained which is better to use, which development environment to be used how to learn Programming languages ,Programming languages types like Functional and imperative, MVC model ,Basic concept and difference between Angular Js and React Js which is been currently used in Industry.

“PROGRAMMING IN MACHINE CODE IS LIKE EATING WITH A TOOTHPICK.”

— CHARLES PETZOLD

PYTHON

CODING CLUB



QUIZ

We have organized the Quiz Contest for the students of coding club. Students have attended the quiz with more interestingly. The questions put forth to the students are taken from python by covering class, objects, functions, inheritance, method overloading , method overriding , pygame and GUI.

“WHAT ONE PROGRAMMER CAN DO IN
ONE MONTH, TWO PROGRAMMERS
CAN DO IN TWO MONTHS.”
— FRED BROOKS

IOT CONTEST

INTELLIGENCE SYSTEM CLUB



QUIZ, BURN THE CODE AND PAPER PRESENTATION

THE QUIZ EVENTS COMPRISED OF THREE ROUNDS IN WHICH STUDENTS WERE FILTERED ON FIRST TWO ROUNDS AND AT THE END OF THE SECOND ROUND 10 STUDENTS WERE SELECTED FOR THE FINAL ROUND. LIKEWISE BURN THE CODE EVENT COMPRISED TWO ROUNDS, THE FIRST ROUND WAS BASED ON BURNING THE CODE INTO 8051 MICROCONTROLLER CHIP AND THE SECOND ROUND WAS BASED ON BURNING THE CODE INTO ARDUINO BOARD



"I DO NOT FEAR COMPUTERS. I
FEAR LACK OF THEM."
— ISAAC ASIMOV

BLADE TEMPLATE ENGINE & LARAVEL FRAMEWORK.

WEB-TECH CLUB



INDUSTRY EXPERT INTERACTION

MR. V.V. MADHAN, FOUNDER,
GUDCART SOFT SOLUTIONS

BLADE IS NOTHING BUT A SIMPLE, YET POWERFUL TEMPLATING ENGINE PROVIDED WITH LARAVEL. UNLIKE OTHER POPULAR PHP TEMPLATING ENGINES, BLADE DOES NOT RESTRICT YOU FROM USING PLAIN PHP CODE IN YOUR VIEWS. IN FACT, ALL BLADE VIEWS ARE COMPILED INTO PLAIN PHP CODE AND CACHED UNTIL THEY ARE MODIFIED, MEANING BLADE ADDS ESSENTIALLY ZERO OVERHEAD TO YOUR APPLICATION. BLADE VIEW FILES USE THE .BLADE.PHP FILE EXTENSION AND ARE TYPICALLY STORED IN THE RESOURCES/VIEWS DIRECTORY

LARAVEL FRAMEWORK BASICS & TOPICS COVERED:

- APP DIRECTORY
- CONFIG DIRECTORY
- PUBLIC DIRECTORY
- TESTS DIRECTORY
- VENDOR DIRECTORY

“A COMPUTER ONCE BEAT ME AT CHESS, BUT IT WAS NO MATCH FOR ME AT KICK BOXING.”

— EMO PHILIPS

VI MICROSYSTEMS

CSE DEPARTMENT II YEAR.

INDUSTRIAL VISIT

MRS.SRIPRIYA,MRS.FAMITHA,
MR.THAMBA,MR.AJIN

They gave information about how to create micro systems which is used to design various electronic equipments .In the first sector, we came to know about the various means of Communication and Propagation, the conversion of analog signals to digital and viceversa.When we came to the Design area, we came to know that they send their plan to an organization which is situated at Bombay which designs the PCP Board with the planned details and send it back to the VI Microsystems Pvt.Ltd.

“COMPUTER SCIENCE IS NO MORE ABOUT COMPUTERS THAN ASTRONOMY IS ABOUT TELESCOPES.”

— EDSGER W. DIJKSTRA



BIG DATA AND ANALYTICS

IICT Academy in St.Joseph college of Engineering

PRESENTATION

DR.M.AKHILAN / PRINCIPAL.
MS.KAMATCHI DEVI/TRAINER/ICT
ACADEMY

- The following topics were covered during the session
- Basics concepts of Big data
- Types of Data
- Business Intelligence• Data Repositories
- Data Generation Sources
- Benefits
- Data Analytics Lifecycle.
- Vectors
- Lists,Matrix
- Arrays,Packages
- CSV Files, Binary Files, XML Files, Web Data
- Databases.

Real time videos for IoT & Bigdata was presented. On the whole, the FDP was very interactive and useful for the beginners

“STANDARDS ARE ALWAYS OUT OF DATE. THAT’S WHAT MAKES THEM STANDARDS.”

— ALAN BENNETT



C- SEC & E- HACK

IC- SEC & E- HACK CLUB



INDUSTRIAL EXPERT INTERACTION

MR. S. ARUN, CEO AND FOUNDER,
SIRA INFOSEC PVT LTD, CHENNAI

- He demonstrated how to secure and crack the password in computer, mail. He explained network security, website security and system security.
- He gave practices for whois, wireshark, http and https. He demonstrated how to search multiple data breaches and email password strength level and its level of compromised.
- In post lunch session, he gave hands on session for android mobile hacking and how to control android mobile by kali OS software Tools.

“IT’S HARDWARE THAT MAKES A MACHINE FAST.
IT’S SOFTWARE THAT MAKES A FAST MACHINE
SLOW.”

— CRAIG BRUCE

VAMSOFT TECHNOLOGIES

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



INDUSTRIAL VISIT

FACULTY MEMBERS

MRS. THIYAGARAJAN

MS. ANITHALAKSHMI

- The session started with the explanation of how to improve skill set (Technical and Communication) by Mr. Manigandan Project manager. He explained the fundamental requirements for industry with real time examples. He discussed with the students about the subject knowledge in OS, DBMS and Data Structures.
- The session was ends with more interactive. It was an informative, interesting and a successful visit. We express our thanks to the Principal who permitted us to go on the visit, the faculty members who accompanied us and the officials who explained the various departments. Behalf the students I request you to arrange more industrial visit for students which can practically train the students.



“THE MORE YOU KNOW, THE MORE YOU
REALIZE YOU KNOW NOTHING.”

— SOCRATES

JANUARY 2018|E-MAGAZINE

DEPARTMENT OF INFORMATION TECHNOLOGY

PREPARED BY

DEPARTMENT OF IT

IT BLOODBATH

IT DEPARTMENT



GUEST LECTURE

MR. A.VIJAYARAGHAVAN,CEO
APPS FREEDOM PVT LTD.

The session was focused on two way communication. First of all he explained about what are the the common practices for hiring a person and explained with statistics how the company fires a person. It includes from CV, social media, Linked-in, certifications, communication, inter-person skills and so on. He stated things to be followed during first six months in a company and next six months too. He stated the difference between surviving and thriving in the field. He included that automation one of the reasons why people are losing their jobs. He also advised to apply things in the real life applications. Resource person also advised that the technology keeps on growing and things get outdated that is why we need to update.

THE BEST WAY TO PREDICT THE
FUTURE IS TO CREATE IT

KAASHIV INFOTECH

IT DEPARTMENT, III Yr Students.

INDUSTRIAL VISIT

BY MR.VENKATESAN PRABHU



The resource person working in the microsoft , started the session with introduction about evolution of applications. He discussed about the coding tips and easy way to code . He also mentioned his records and workshops which helps the students to learn and acquire more knowledge about the specific domain. The session also had a competition to code the given query which made the session more interactive .He also thought the basics of .NET and its uses. He practically implemented the .NET code in his system to make students interactive. The industrial visit to the kaashiv Infotech created the awareness among the students about the industrial requirements and gained knowledge about the coding and tips.



Access to computers and the Internet has become a basic need for education in our society.

AGILE TECHNOLOGIES

IT DEPARTMENT

GUEST LECTURE

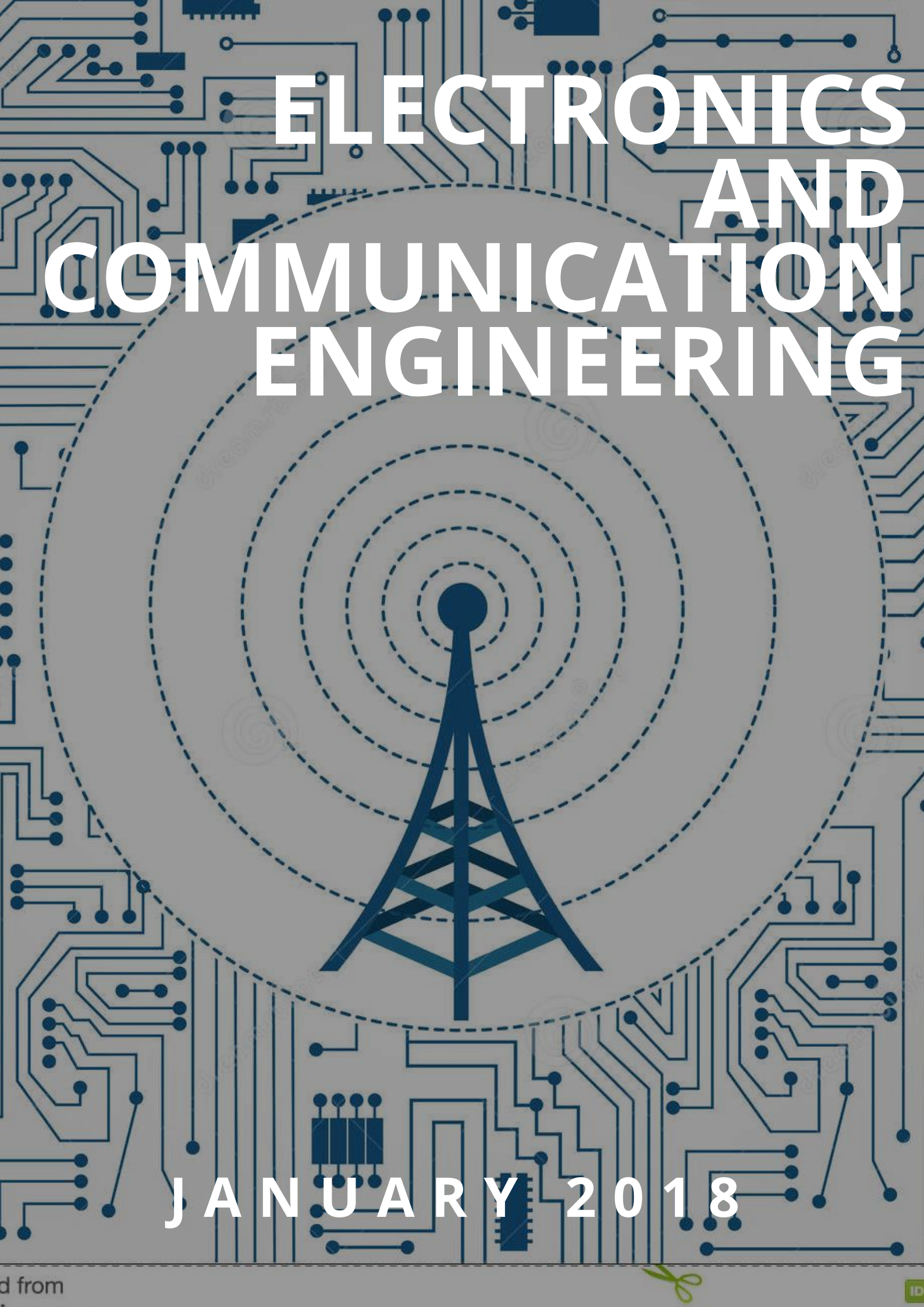
MR.K.PRABHAKARAN
SENIOR ASSOCIATE CONSULTANT
INFOSYS TECHNOLOGYS LTD
MAHINDRA WORLD CITY
CHENNAI

A Senior Associate consultant from Infosys technologies have taken the initiative to come to our college for the guest lecture on agile technology. He has given the introduction on agile technology. He explained about the steps involved in the agile method to develop a software. The drawback of waterfall model is that we can identify the error only at the end of the cycle whereas in agile technology we can split the project into smaller segments so we can identify the errors at the end of each segment so the time consumption becomes less. Therefore the agile technology is more preferable in the industry.

Also he explained about the tools used in the agile technology. The most used tool is JIRA it makes the agile technology more flexible. Later he discussed about the SCRUM, which is an iterative and incremental model it contains SCRUM MASTER, SCRUM TEAM. SCRUM MASTER is the facilitator between the scrum team and the other teams.

It's hardware that makes a machine fast.
It's software that makes a fast machine slow.





ELECTRONICS AND COMMUNICATION ENGINEERING

JANUARY 2018

TRAINING FOR EMBEDDED & ROBOTICS TECHNICAL CLUB (IV YR)



TRAINING:

BY MR.E.DILLIRAJ,ASST PROF ,ECE

The session started with the basic presentation on embedded systems and its application by Mr. Mr.E.Dilliraj followed by programming concept of AVR Atmega8 microcontroller for interfacing the peripheral devices by Mr.L.Padmanaban and Ms.Sreejvijay. The session was very useful to students of final year students for carrying out their projects in embedded domain.

Totally 18 project batches utilized the opportunity with the simple concept explained to them. There was a doubt clearing session at end of training, students were able to understand the difficulties they are facing while executing the programs and while designing the PCB and how to execute the program. With that the session was concluded.

WITH ELECTRONICS, THEY JUST GET SMALLER AND SMALLER.

TRAINING FOR EMBEDDED & ROBOTICS TECHNICAL CLUB II & III YR



TRAINING:

BY MR.E.DILLIRAJ,ASST PROF ,ECE

The session started with the discussion about their project by Mr. Mr.E.Dilliraj followed by programming concept regards with their project and its corresponding interfacing the peripheral devices by Mr.L.Padmanaban.

The session was very useful to students of II and III year students for carrying out their projects in embedded domain. Totally 4 project batches utilized the opportunity with the simple concept explained to them. There was a doubt clearing session at end of training, students were able to understand the difficulties they are facing while executing the programs and while designing the PCB and how to execute the program. With that the session was concluded. Again it was overall a very useful training for both the students and staffs.

A VISIONARY SEES LIGHT IN THE DARK

MATLAB AND FUZZY LOGIC TOOLBOX

MATLAB DOMAIN CLUB

BY:
MR.J.YUVARAJ



Matlab Programming is one of the most important technical programming languages and skills today. In this session, we made the students to start learning Matlab from beginner level, and slowly we ease our way into more technical topics.

This course is a general Matlab Programming, and it means that all the majors can benefit from this course. Matlab Programming is an easy and understandable programming language and is an excellent choice for learning before starting other programs like Java, Python, C, and C++.

Fuzzy Logic Toolbox provides functions, apps, and a Simulink block for analysing, designing, and simulating systems based on fuzzy logic. The product guides you through the steps of designing fuzzy inference systems. Functions are provided for many common methods, including fuzzy clustering and adaptive neuro-fuzzy learning



“ENGINEERS LIKE TO SOLVE PROBLEMS. IF THERE ARE NO PROBLEMS HANDILY AVAILABLE, THEY WILL CREATE THEIR OWN PROBLEMS.”

— SCOTT ADAMS

NI LABVIEW ACADEMY



NATIONAL INSTRUMENTS LABVIEW

BY:
MR.ANISH ,
OPTITHOUGHT, CHENNAI

Training on myRIO hardware was conducted for 35 students, II Batch (III yr ECE and EEE) of LabVIEW Academy by Mr.Anish , Optithought, Chennai from 03.01.18 to 06.01.18. The topics covered during the training are

Introduction to MyRIO
XILINX, WIFI , configuration, Ports connection

LEDs interfacing with MyRIO
Inbuilt LEDs , accelerometer examples with applications

Buzzer , Potentiometer interfacing with MyRIO .Servomotor function with buzzer and potentiometer application



THE HUMAN FOOT IS A
MASTERPIECE OF
ENGINEERING AND A
WORK OF ART.

— LEONARDO DA VINCI

APPLICATIONS OF MATLAB IN THE INDUSTRY

INDUSTRY EXPERT INTERACTION

BY MR. SURAJ GOWDE
MR. BALAJI

This has 96 tool boxes to solve specific problems.

Out of 96 tool boxes, Signal Processing, Image Processing, Neural Networks and Fuzzy logic tool boxes were clearly explained with live demo.

Version 10.1, Release 2017b, includes the following enhancements:

- Deep Learning: Denoise images using deep learning techniques
- 3-D Image Processing: Process 3-D volumetric image data with support for seven additional functions
- Image Enhancement: Adjust colors with automatic white balancing, and reduce haze in images
- Image Quality Metrics: Measure image quality without a reference image, and model image quality using an eSFR (imatest edge spatial frequency test) test chart
- NIfTI File Format: Read and write neuroscience image volumes in the NIfTI (Neuroimaging Informatics Technology Initiative) format.

Applications of MATLAB in industries were also clearly explained .



"DO NOT TAKE LIFE TOO SERIOUSLY. YOU WILL NEVER GET OUT OF IT ALIVE"

WORKSHOP

MATLAB CLUB

10th January 2018- 8.00 am to 10.00 am- 24 students attended
Hands on Training in basic concepts of Matlab :

Layout of Matlab- Windows- Command Window- Workspace-
Command History- Current Directory- Editor window.

Vector Representation-Vector to matrix-Different types of
matrices- Magic Matrix- Eye Matrix-Multiplicative and additive
identity property-Matrix operations- Addition and
Multiplication- Matrix reshaping- selecting specific rows or
columns of a matrix- Concatenation of matrices.

11th January 2018- 10.00 am to 12.30 pm- 15 students attended.

Plot statements-Simple statements- Single plot- axes, title,
multiple plots- Contour Plotting- with and without labeling-
surface plotting

Image Processing basic Concepts-

Reading – Plotting Images- Colour to gray scale-Image resizing-
Filtering concepts- three different filters- Gaussian, sharpening
images- Histogram

"LIFE IS LIKE RIDING A BICYCLE. TO
KEEP YOUR BALANCE, YOU MUST
KEEP MOVING"

INTERNAL TRAINING

ANTENNA CLUB,

INTRODUCTION TO NETWORK ANALYZER

BY

1. MR.T.RUBESH KUMAR AP/ECE
2. MR.B.VIDYAPATHI AP/ECE
3. MR. N. DARWIN AP/ECE

The department of ECE conducted internal training on 20th January 2018 based on "INTRODUCTION TO NETWORK ANALYZER" for the benefit of club students

The following topics were covered:

1. Introduction to Network analyzer.
2. Types of Devices Tested by VNA
3. Reasons for testing component
4. Network Analyzers Vs Spectrum Analyzers

Be happy for this
moment. This moment
is your life



WORKSHOP

RETECH Solutions Pvt Ltd

3D PRINTING

BY

1. MR. GOPALAKRISHNAN
TECHNICAL ENGINEER
2. MR. KARTHIKEYAN
TECHNICAL ENGINEER

The department of ECE conducted a workshop on 3D Printing by RETECH Solutions on 22nd Jan 2018.

The following topics were covered:

- 1 Introduction about 3D printer
- 2 Desing of 3D products using Solid works software
- 3 Role of Cura Software
- 4 Mechanism to generate Gcode
- 5 Role of printer interface in 3D printer
- 6 Interior and exterior structure of stepper motor
- 7 Role of PID controller in maintaining constant tempeature and speed
- 8 Introduction about Proportional cotroller

Only I can change my
life. No one can do it
for me



INDUSTRIAL VISIT



LARSEN & TOUBRO PRIVATE LIMITED:

The major production in company is TCP which is classified into HTCP and MTCP which contributes about 75% of the company production. The TCP has been exported to about 36 countries in the world, thus the company is producing tyre manufacturing machine and its spares.

The tyre manufacturing process involves the mixing of raw materials and then rolling into thin sheet the rolling this rubber sheet with certain pattern over an roller to produce green tyres which has done by tyre building machine (TBM). The green tyre proceeds by using tyre curing press TBM produce finished tyres process of rubber tyre. the process involved in LTRPM product units design, purchase, quality, assembly. Each processes have the sub processes and the staffs able to handle the processes. The design of the TBM and TCP are done as per customer specifications.

**IN ORDER TO SUCCEED FIRST U
MUST BE WILLING TO FAIL**

INDUSTRIAL EXPERT INTERACTION

HARDWARE AND NETWORKING CLUB

BY MR.JAYACHANDRAN,
DIRECTOR, BRIX NETWORK
PVT. LTD.

Industrial Expert Interaction titled "ATD-IPv6/VMs/ Wired/ Wireless/ Infosec/ Storage/VViD/ Logger/ Dialer". Network sessions are presented from 10.00 am - 11:30 am on 23-01-2018 CBanking servers in international level:

Corporate clients value direct banking and would like to manage several bank connections centrally via a single interface. The Finance-Communication server is an open platform for fast and secure data exchange between financial institutions and their clients. These servers are used widely in our day to day life banking are proxy server, client server and replication server.

PERSEVERANCE SECRET OF
ALL TRIUMPHS



APPLICATIONS OF NEURAL NETWORK IN ENGINEERING FIELD



IEEE Student Branch and MATLAB Club

NATIONAL WORKSHOP

BY DR.VENKATESHKUMAR
FROM CHAIRMAN, IEEE
YOUNG PROFESSIONAL

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. Resemblance of neural network with human brain was discussed in the following ways. Neural network architecture was clearly explained. Fixing of crisp inputs, computation in the hidden layer & desired output were discussed.



In order to succeed, we must first believe that we can. Nikos Kazantzakis

RTL DESIGN AND FUNCTIONAL VERIFICATION

VLSI DESIGN CLUB

WORKSHOP



The workshop was conducted for the II, III & IV year ECE students. The following topics were discussed in the workshop.

- Overview of VLSI Design
- IP, Chips, and SoCs
- Introduction to VLSI Design Flow
- Front End Vs Back End
- RTL Design using HDL
- Verilog Vs VHDL
- Functional Verification
- System Verilog and UVM based test benches
- Code and Functional coverage
- Indian Semiconductor Industry
- Products and roadmaps
- Job Opportunities



"With the new day comes new strength and new thoughts"

JANUARY 2018 | E-MAGAZINE

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

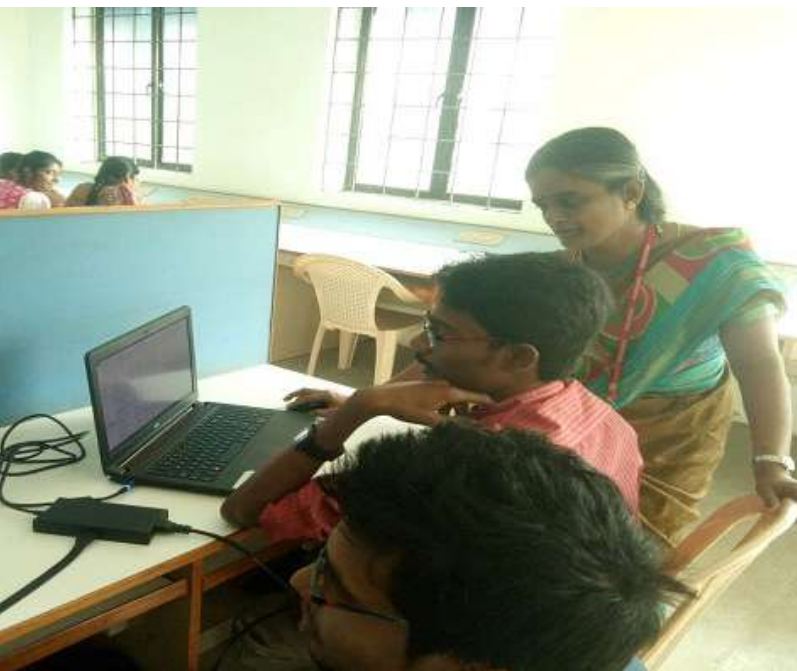
PROPOSED BY

DEPARTMENT OF EEE

PROGRAMMABLE LOGIC CONTROLLER

PLC TECHNICAL CLUB

BY. MS.M.PREETHA,
ASSISTANT PROFESSOR/EEE



The Today, PLC are being used in every Process & Manufacturing Industries, besides knowing the wiring & connection, one must know how to program a PLC. This training will help the students to wire, design & Program a PLC.

- .Need of Automation in industry
- .Comparison between PLC and Computer

- PLC block diagram

- .About input and output modules
- .Relay logic
- .Ladder Diagram Programming with simple examples.

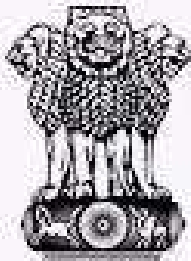


IF YOU WANT TO SHINE
LIKE SUN FIRST YOU HAVE
TO BURN LIKE IT.

DISCUSSIONS ON SOLAR SKILL DEVELOPMENT COURSES

BY Dr.K.C.Jayasankar

GREEN ENERGY CLUB



सत्यमेव जयते

GOVERNMENT OF INDIA

MINISTRY OF
NEW &
RENEWABLE
ENERGY



In continuation with the IEI conducted, the following points were discussed

- Solar energy related basic courses by MNRE & iacharya silicon limited and their scopes.
- Other renewable energy related courses by government agencies viz NISE, NIWE ...etc .
- Scope of Renewable energy resources especially Solar PV systems.

Totally 30 club members were attended this session and it has been decided to enroll the basic course to be conducted by MNRE & iacharya silicon limited

“EARTH THAT IS ELECTRIFIED BY THE ELECTRICAL UTILITY SYSTEM IS A KNOWN HUMAN HEALTH HAZARD.”
— STEVEN MAGEEA

OPTIMUM POWER FLOW ANALYSIS



HANDS ON TRAINING USING ETAP SOFTWARE

BY MS.MATHUMATHI.T
ASSISTANT PROFESSOR/EEE

The main objective of this analysis is to determine the power system control settings to improve system performance and also to maintain the power system parameters within the limits in order to maintain the system stability.

- Minimize system real & reactive power losses
- Minimize generation fuel costs
- Minimize system energy costs
- Maximize system performance
- Minimize generator fuel cost or heat rate with different cost models & fuel profiles

- Control generator's MW (governor) & MVAR
- (AVR) settings within the specified limits
- Control voltage regulators (transformer tap positions) within the specified limits
- Size capacitors within the specified limits
- Maximize voltage & flow security indices
- Determine control settings

"WE ARE THE POWERS OF THE
WORLD
-ELECTRICAL ENGINEERS"

PROFESSIONAL LIGHTING CLUB



DIALUX CLUB

By A.Malliga, Asst prof/EEE

- We gave training to ii year EEE club students on indoor lighting design and analysis of illumination requirements on CISCO lab at 20-01-2018 from 1.00pm to 3.00pm.
- They learned to design indoor lighting using Dailux 4.13 software.
- Some indoor lighting also designed by our students

"PEACE BE AMPLIFIED,
WORLD BE RECTIFIED"

INDUSTRIAL VISIT



ENGINE FACTORY, AVADI

Dr.K.C.Jayasankar Prof/EEE
Ms.M.Preetha Asst Prof/EEE

The department of EEE organized an industrial visit for 34 Students of III year EEE to visit Engine Factory, Avadi, Chennai.

It helped the students to gain first hand information regarding the high power Diesel Engine. It also serves as a relation building process between the utility and end user

Manufacturing and Overhauling of :-

1) V92S2 High Power Diesel Engines – 1000 HP

Fitted in T-90 Battle Tank

2) V46-6 High Power Diesel Engines – 780 HP

Fitted in T-72 Main Battle Tank

3) UTD-20 Diesel Engine - 300 HP

Fitted in BMP Army Personnel Carrier

Apart from Supply of Diesel Engines as whole, EFA supplies Engine Spares to Army (CAFVD), IAF, Indian Navy and other Public Sector Units in order to ensure that all the Tank positioned at various Frontiers are kept in battle-fit condition, thereby ensuring Country's Defence Pre-preparedness.

SCIENCE IS ABOUT
KNOWING; ENGINEERING
ABOUT DOING.

MATLAB-FUZZY LOGIC TOOL BOX

Power Electronics and drives club
Ms.S.Shanthini Merlin & Mr.Ramesh

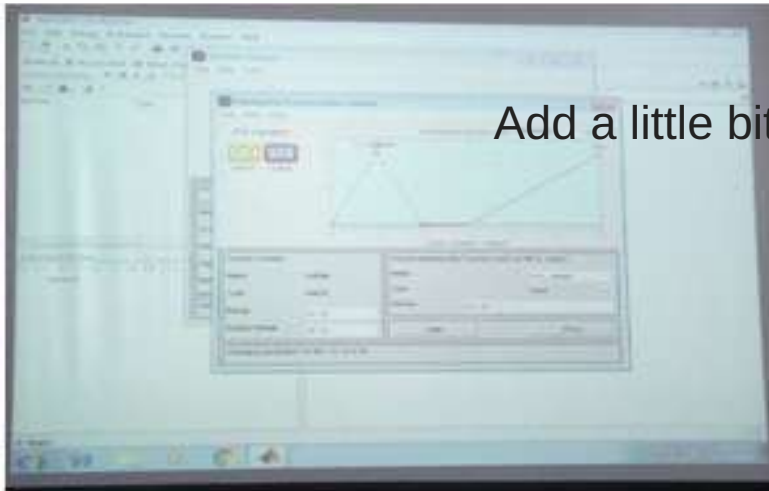
HANDS ON TRAINING

BY DR.S.KRISHNA KUMAR HOD/EEE

The Power electronics and Drives club organized hands on training to the EEE department faculty and the students those who are doing projects related to fuzzy logic controller. The training was given at CISCO lab from 3pm-5pm. The session was started with the fundamentals of fuzzy systems and the procedure to give inputs and outputs to fuzzy controller in Matlab fuzzy logic tool box. An introduction was given about the different types of fuzzification and defuzzification methods.

30

"ONE MAN'S "MAGIC" IS A
ANOTHER MAN'S
ENGINEERING"
"SUPERNATURAL IS A NULL
WORD"



Add a little bit of body text



INDUSTRIAL VISIT



ENGINE FACTORY, AVADI

BY Ms.S.Shobana, Asst/prof EEE
Mr.J.Rajesh, Asst/Prof EEE

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Apart from Supply of Diesel Engines as whole, EFA supplies Engine Spares to Army (CAFVD), IAF, Indian Navy and other Public Sector Units .

"NOTHING IS TOO
WONDERFUL TO BE TRUE IF IT
BE CONSISTENT WITH THE
LAWS OF NATURE." ...

-MICHAEL FARADAY.



MECHANICAL ENGINEERING

JANUARY 2018

IMTEX-2018

BANGALORE INTERNATIONAL EXHIBITION

INTERNATIONAL PROJECT EXHIBITION



**PRESENTING
INFRONT OF JURY
MEMBERS**



IMTEX FORMING 2018 AND TOOL
TECH

IMTEX forming 2018 and Tool tech conducted International Exhibition at BIEC (Bangalore International Exhibition Centre) Bangalore, from 25th January 2018 to 30th January 2018. from our college the title presented was "MULTIPURPOSE ROBOTIC ARM". From III year Mechanical students (Mr.Ponraj, Mr.Rakeshsundar and Mr,Prakash under the guidance of Mr.K.Balachandar, Assistant Professor, Mechanical Engineering.Day 1 session started with the inauguration ceremony of IMTEX forming 2018, after that the representatives of the colleges have been allotted to respective stalls. The project has been explained to the various industry experts by the students. From Day 1 to Day 5, totally around 50 industry experts visited our project. In that 13 companies are ready to provide internship during their final year project

DUE TO THIS EXHIBITION VARIOUS INDUSTRIES ARE READY TO PROVIDE INTERNSHIPS AND PLACEMENTS FOR OUR STUDENTS

DESIGN CONTEST

PRO-E/ANSYS DOMAIN CLUB



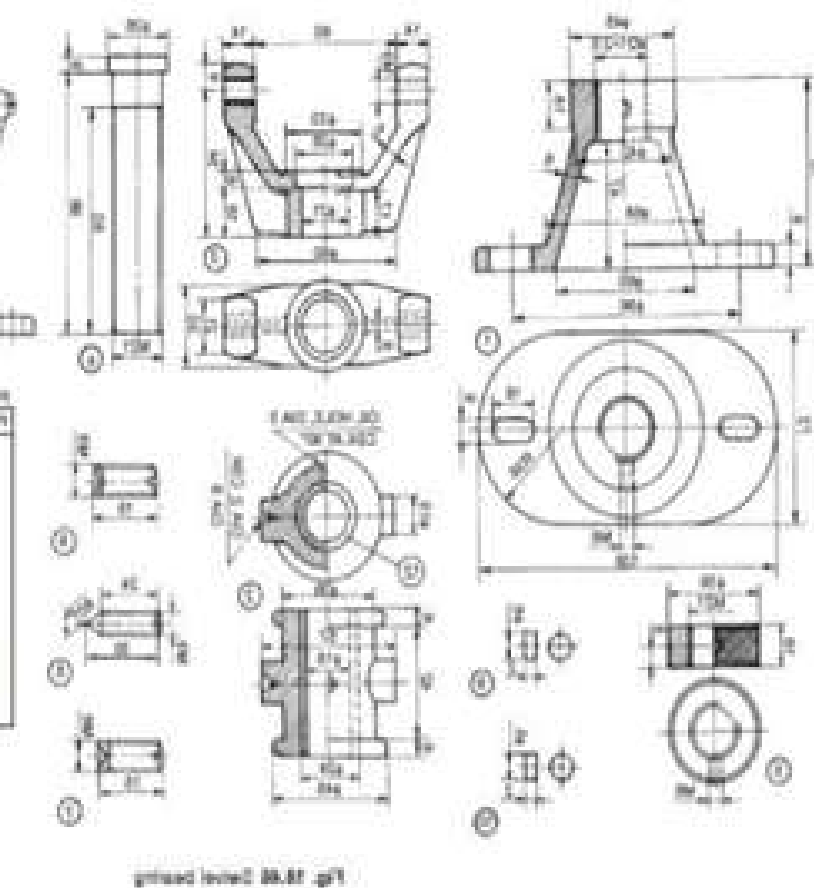
PRO-E DESIGN CONTEST EVENT

**BY CLUB INCHARGE
D.MEGANATHAN,
(ASST PROFESSOR)**

The club has conducted design contest on 05.01.2018. The participants were from the club members from third year mechanical of 21 candidates.

The students were given with a assembly drawing of a swivel bearing and a duration of one hour to complete that drawing.

The student with perfect dimensions and with minimum time consumption was selected as the winner.



**I don't design clothes,
I design dreams**

WORKSHOP

BIKE ASSEMBLY CLUB



HYDROGEN FUELED BIKE

**BY CLUB INCHARGE
K.BALACHANDAR & DR.V.BALAJI
(ASST PROFESSORS)**

Hydrogen fueled Bike demo and workshop for II and III year students on 23.01.2018 between 1.00 pm to 3.00 pm.

The following topics are discussed during training

Composition mixture of Fuel and Hydrogen (70% and 30%)

Internal combustion engines working with this new process

Hydrogen separation by electrolysis process

Trial run process of mileage calculation

It always seems impossible until it's done

GUEST LECTURE

EASWARI MOULDS AND DIES

INDUSTRY EXPERT INTERACTION

**BY MR.S. KATHIRVELU HR IN
EASWARI MOULDS AND DIES**

**Industry expert interaction on
05.01.2018 between 9.45 am to
11.15am with industry person
Mr.S. KATHIRVELU HR in EASWARI
MOULDS AND DIES for II Year
Mechanical Students.**

The topics mainly covered

- 1. Die casing**
- 2. Details about his company**
- 3. How to approach the industry**
- 4. How to face the interviews**
- 5. Share his experience in industries**

**Continuous improvement is
better than delayed
perfection**



WORKSHOP

BIKE ASSEMBLY CLUB



BIKE DISMANTLE AND ASSEMBLY

BY MR.PRABHAKAR, CHIEF MECHANIC

The club has conducted Hands on Workshop 04.01.2018. The participants were from the club members from third & second year of 53 candidates

The session was divided into two batches

Mainly the topic discussed are

1. Bike Dismantle
2. Engine dismantle
3. Clutch plates
4. Carburetor

*It's not a race,
it's a journey,
Enjoy the moment*

ADVANCED PRODUCT DESIGN AND DEVELOPMENT

WORKSHOP EVENT

ONE DAY WORKSHOP

CONDUCTED BY S.K.R
ENGINEERING COLLEGE

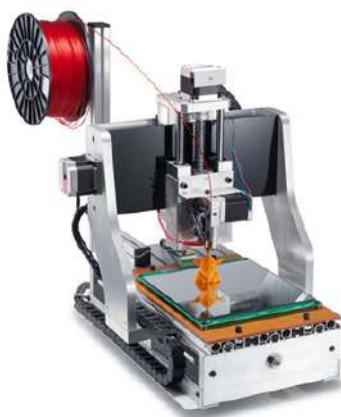


D.MEGANATHAN

(Assistant Professor)

MR. D. Meganathan (Assistant Professor) was permitted by our college to attend the Workshop on "Advanced Product Design and Development through Solid Modeling and Rapid Prototype Techniques" It was a One day workshop and it was started with the inaugural address given by Dr Senthil kumar Principal S.K.R engineering college poonamalle chennai on first day. Some important assemblies in Product Development were explained with Live CAD Modeling Demonstration

- Major topics of the session were
- Live CAD Modeling Demonstration
 - Rapid Prototyping / 3D Printing -
 - Live Practical Session
 - 3D Scanning



‘Each time you stretch a
font, somewhere, a designer
cries

INDUSTRIAL VISIT

MANUFACTURING THE BEER

UNITED BREWERIES LTD.

**UNDER THE GUIDANCE
OF MR.N.RAMASAMY &
MR.D.MEGANATHAN
(ASS.PROFESSOR)**



The Mechanical Department has organized Industrial visit on 9th Jan 2018 for III year (A sec) students of Mechanical Engineering to United Breweries Ltd, Aranvoyal kuppam, Thiruvallur.

The following brewing process are learned to manufacturing the beer in United Breweries Ltd

- Water treatment process
- Fermentation of malted cereal grains
- Packaging process by using hydraulic mechanism
- Bottling process, from which learned automatic conveyor mechanism
- Modern computerized control used for controlling speed
- Pasteurizing process used for kill the remaining yeast



*Hire character
train skills*

GUEST LECTURE

CATIA DOMAIN CLUB



INDUSTRIAL EXPERT INTERACTION

**BY MR.K.VISHNU RAJ. B.E.
MANAGING DIRECTOR - SHAPE IT
LTD. COIMBATORE.
ALUMNI OF PRATHYUSHA
ENGINEERING COLLEGE**

The session was started at 10.00 AM for III year Mechanical Students at Smart room Mechanical Civil Block and finished at 12.20 PM. After Lunch break the session was organized for the benefits of Final year Mechanical Students to attend Harita Tech Serv campus interview After the end of session both III & IV year students had obtained a good knowledge in Engineering Technical Drawing reading & understanding of various view of drawings. Creation and designing of product features based on customer requirements in wire frame, surface, solid modelling approaches and they have also learnt about representation of design model to customer view through Rendering and shading techniques. The session was very much useful to the students.



**‘What I enjoy most is
watching my ideas take shape
and eventually come to life**

ENTREPRENEURSHIP AWARENESS CAMP (E.A.C.)

ENTREPRENEURSHIP DEVELOPMENT CELL



THREE DAYS ENTREPRENEURSHIP CAMP

FUNDED BY DST-NSTEDB, GOVT.
OF INDIA

On day 1 - Dr. G. Gangi Reddy, MD, TBI, University of Madras, has inaugurated the camp and presented a lecture on Entrepreneurship awareness. Mr. V. Ramakrishnan, Deputy Director, MSME, Govt. of India, has presented lecture on Identification of opportunities for entrepreneur

On day 2 - Dr. K. Gurusami, Project Manager, TBI, St. Peter's University, Chennai, has presented the lecture on How to start a SSI unit. Mr. M. M. Shah, MD, D-Cube Designs (Startup company), Chennai, has presented lecture on Financial aspects of SSI unit.

On day 3 - An Industrial visit has been arranged to National Institute of Wind Energy (NIWE), Pallikaranani, iacharya silicon Ltd., Kodambakkam, and Popular Engineering, Ekkatuthangal, Chennai.



Life is too short to be
working for someone
else's dream

CNC PROGRAM WITH CONCEPTS

CNC CLUB

INTERNAL WORKSHOP

BY DR.P.JAYARAMAN,
PROFESSOR,
HEAD OF DEPTAREMENT OF
MECHANICAL ENINEERING

The CNC Technical domain club has organized internal Workshop on 20th January 2018 for CNC club students of Mechanical Engineering titled "CNC Program with concepts" at the smart room and manufacturing technology lab.

The following topics were interacted:

- * CNC Machine application
- * Career opportunities in various industry
- * Types of program used
- * Learned about tool offset and work offset settings
- * Simulation and working of End mill cutting
- * Basic practices needed for working in CNC Machine
- * Key points to write program using G codes and M codes

Don't watch the clock; do what it does. Keep going.

INDUSTRIAL VISIT

MANUFACTURING PROCESS CLUB



YATHRA AUTOMOTIVE INDUSTRIES

GUIDED BY MR.T.THIRUMALAI,
ASSISTANT PROFESSOR,
MECHANICAL DEPARTMENT



The students of II Year mechanical A and B sec visited Yathra Automotive Industries on 23.01.18 and 24.01.18. Yathra Automotive Industries is a prime name as the manufacturer and supplier of Automotive Sub Assembly,

OUTCOME OF INDUSTRIAL VISIT:



1. Students learn about how sheets are pressed
2. Safety aspect in industries.
3. Sequences of operations
4. Students learn about Cutting Operations.
5. Students learn about Bending Operations.
6. Students learn about Drawing.
7. Students learn about Cutting. – Shearing to separate large sheets. – Blanking to cut part perimeters out of sheet metal. – Punching to make holes in sheet metal.



Aim for the moon. If you miss, you may hit a star.

ONLINE CERTIFICATION COURSES

BY MINISTRY OF HUMAN RESOURCE DEVELOPMENT

NPTEL



NPTEL(National Programme on Technology Enhanced Learning), is an e-learning initiative by the 7 Indian Institutes of Technology and the Indian Institute of Science with the support of the MHRD, govt. of India. The mission of NPTEL is to enhance the quality of engineering education in the country.

Students of mechanical department enrolled in various courses and successfully completed the course.

The students were awarded with certificates.

Faculty of mechanical department also enrolled in NPTEL courses and successfully completed the course

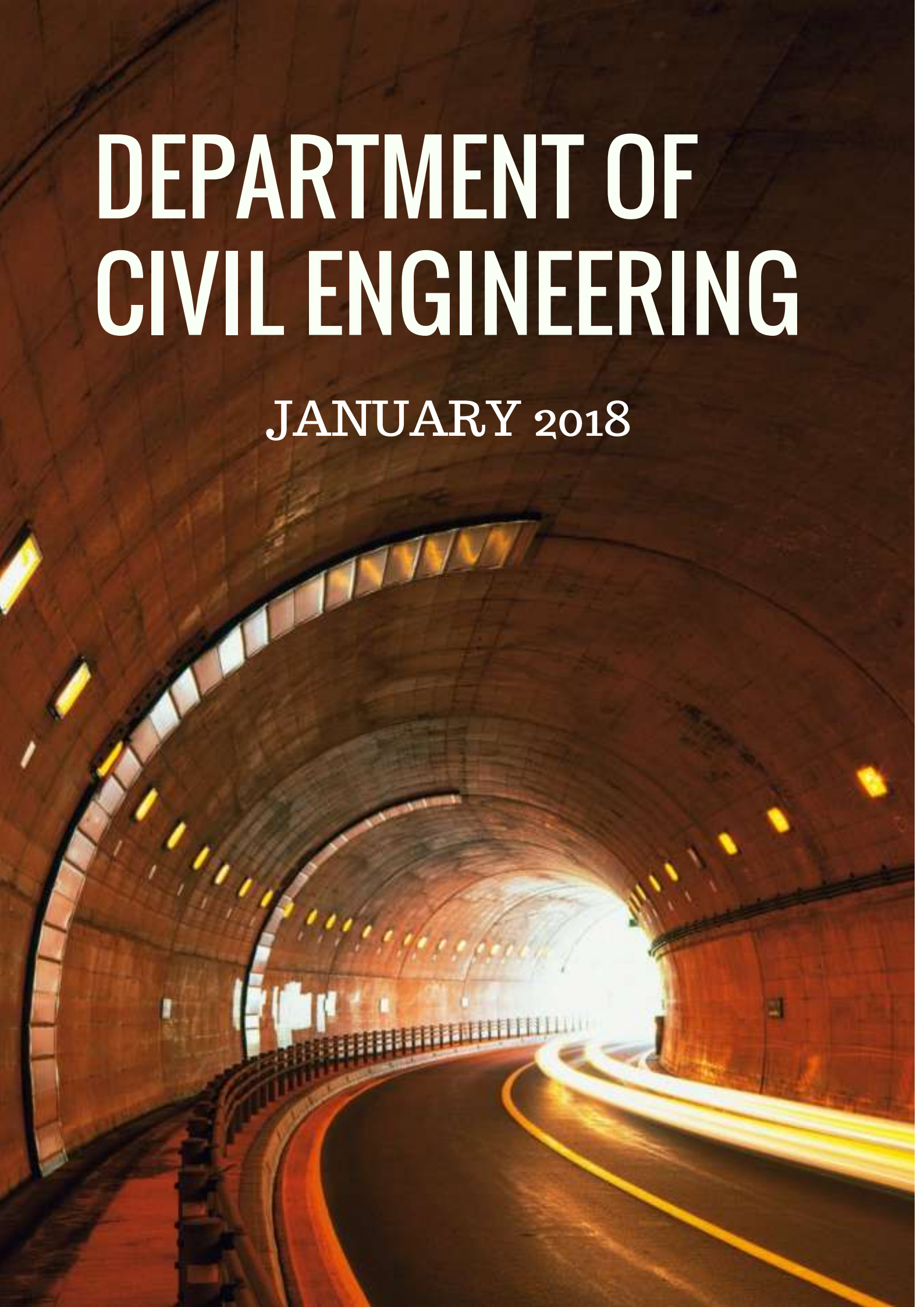
More students are to enroll NPTEL courses in the present and forthcoming semesters.



*The "Expert" in anything
was once a "Beginner"*

DEPARTMENT OF CIVIL ENGINEERING

JANUARY 2018



ENTREPRENEURSHIP IN ROOFTOP GARDENING

Organised by: Enviro Club



INDUSTRIAL EXPERT INTERACTION

BY: MR.D.MANIVEER,
ORGANIC AGRICULTURALIST,
TANJORE.

Enviro club organized an Interaction programme on Entrepreneurship in Rooftop gardening, on 8.01.2018 for the III year and IV year students those who have enrolled in this club.

Chief guest for this event was our department Alumni Mr.D.Maniveer, Organic Agriculturalist from Tanjore. He addressed the students on the title Urban Agriculture and created an awareness among the students about the farming and organic agriculture.

He explained the students about the step by step procedures that are required for a person who has an idea of becoming an entrepreneur in the field of organic farming.

THE JOY OF ENGINEERING IS
TO FIND A STRAIGHT LINE ON
A DOUBLE LOGARITHMIC
DIAGRAM.

- THOMAS KOENIG

PIDILITE INDUSTRIES PVT.LTD



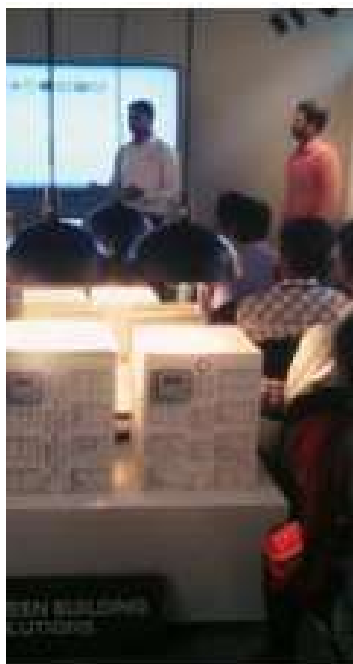
INDUSTRIAL VISIT

BY 2ND YEAR STUDENTS

On 18th January, 24 students from II year along with 2 faculty members visited Dr.FIXIT, Waterproofing Expert Company which is working under PIDILITE Industries, Gopalapuram, Chennai. The main objective of this industrial visit is to create awareness among the students about various types of leakage control options available in the market. Mr.Sanoj Chandran from Dr.FIXIT explained the students about various leak proof products manufactured by their company. It includes

1. Integral Water proofing-Dr.FIXIT Pediproof LW+
2. New roof water proofing-Pedicrete URP
Roofseal
Roof seal flex
3. Wet Area Water Proofing-Pidifin 2K
4. Bathseal Range.

They explained the students through power point presentations and models available in their office.



WE SHAPE OUR BUILDINGS,
THEREAFTER THEY SHAPE US.
- WINSTON CHURCHILL

DEPARTMENT OF BIOTECHNOLOGY

JANUARY 2018



SEQUENCE ANALYSIS AND PHYLOGENETIC TREE CONSTRUCTION



TRAINING

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

The training program was organized by the Bioinfotech club on 11.01.2018 by 9.50 am -12.20 pm. Totally 32 students were benefitted with this training.

The training was made in two sessions. The first session was carried out with the introduction of biological databases, various file formats, sequence analysis tools such as BLAST, CLUSTAL W. The second session was completely a training session. They were trained also to find out the relationship between the organisms through sequence analysis and phylogenetic tree. .

Biotech investing is no longer a pie-in the sky game.

INDUSTRY EXPERT INTERACTION



GUEST LECTURE:

The lecture was handled by Dr.Savithri shivakumar who is a founder and executive Director, research pharmacologist Aaranya Biosciences Pvt. Ltd.The lecture was made in two sessions. The first session was carried out with the basic introduction in the drug discovery and the need of drug discovery in recent trends.

.Follwed by the creening of the drug in different stages such as pre clinical and clinical trails where the clinical trails consist of phase 1,2,3 and 4 the toxicity of the drug, minimal and maximum dosage of the drug is determined in this stage.

Biotech is a terrific industry, but it's not like having a big chip-manufacturing industry.

FACULTY DEVELOPMENT PROGRAM (FDP)



JANUARY 2018

INDIA INTERNATIONAL LEATHER FAIR 2018

a 3-day International Leather Fair (IILF)

REPORT

JANUARY, 2018

Name of the staff with designation: Dr.Arun/Professor

Dr.V.Jayaseelan/ Professor

Mr.A.Selvakumar/ Assistant Professor

Date 31.1.2018 And 1.2.2018

Department: Mechanical Engineering

Type of programme: Exhibition

Venue: Chennai Trade Centre

Title of programme: INDIA INTERNATIONAL LEATHER FAIR - CHENNAI 2018

INDIA INTERNATIONAL LEATHER FAIR - CHENNAI 2018, a 3-day International Leather Fair (IILF) display the entire range of products relating to leather industry from raw material to finished products and auxiliary products such as finished leather; shoes; shoe components - uppers, soles, heels, counters, lasts; leather garments, fashion accessories, leather goods, machinery and equipment and chemicals.

IILF has all along been a vivid presentation of the leather industry. Latest expressions of the trends, styles, designs and colours in world fashion are shown. The 33rd edition of India International Leather Fair (IILF) Chennai, will be held from Jan 31 to Feb 2, 2018 at Chennai Trade Centre, Nandambakkam, Chennai.

More than 200 high profile exhibitors from across the globe and over 10,000+ key trade visitors are participated at IILF 2018, The Gateway to India's Booming Leather Industry.

Objectives are:

- Disseminate knowledge in the field of Leather and allied technology through seminars, workshops, training programmes etc.
- Provide technical guidance and consultation to industries in Leather.
- Skill development, training and certification support to industries
- Organise International Exhibitions on Leather and related areas.

NOTHING MAKES AN
ENGINEER MORE
PRODUCTIVE THAN
THE "LAST MINUTE"

IMTEX FORMING EXHIBITION

BIEC (Bangalore International Exhibition Centre)

Bangalore

MULTI-PURPOSE ROBOTIC ARM

BY III YEAR MECHANICAL
STUDENTS

IMTEX forming 2018 and Tool tech conducted International Exhibition at BIEC (Bangalore International Exhibition Centre) Bangalore, from 25th January 2018 to 30th January 2018. The main objective of this expo is to collaborate industry with the academic institutions to get a chance of internship and placements with various industries. Totally 44 colleges participated which includes IIT, PSG and other reputed institutions all over India presented and exhibit their innovations to the IMTMA forum.

We participated from our college in the title presented "MULTIPURPOSE ROBOTIC ARM".

From III year Mechanical students (Mr.Ponraj, Mr.Rakeshsundar and Mr.Prakash under the guidance of Mr.K.Balachandar, Assistant Professor, Mechanical Engineering.

The project has been explained to the various industry experts by the students. From Day 1 to Day 5, totally around 50 industry experts visited our project. In that 13 companies are ready to provide internship during their final year project, some of the companies have been listed below:

- BHALARIA METAL CRAFT PVT LTD, MUMBAI
- SAFE AT & T TECHNOLOGY PVT LTD, MAHARASHTRA
- KOBOLT ROBOTICS, COIMBATORE
- KUMARAS TECHNO TRADE LLC, PADI, CHENNAI
- GESTAMP AAUTOMOTIVE PVT LTD, MAHARASHTRA
- FIX FIT FASTENERS MFG PVT LTD, WEST BENGAL
- ADDISON LTD, CHENNAI

WHEN YOU WANT TO KNOW
HOW THINGS REALLY WORK,
STUDY THEM WHEN THEY'RE
FALLING APART

IMTEX FORMING EXHIBITION

BIEC (Bangalore International Exhibition Centre) Bangalore



INVENTION BEGINS
WHEN THE
LECTURE STARTS...



ICT ACADEMY

Innovate...Collaborate...Educate

JANUARY 2018

HR CONCLAVE

Conoducted by: ICT Academy



GUEST LECTURE ON PLACEMENT PREPARATIONS.

LIST OF GUEST SPEAKERS

1. MR. ISAAC PATTURAJA / AM – HR / SANMINA SCI INDIA
2. MR. SERTHARAMAN / SENIOR CONSULTANT / CAPGEMINI
3. MR. JEROM / HR – PIL
4. MR. JUSTIN / HR – VISTEON
5. MR. CHARLES / HEAD HR & PUBLIC SPEAKER

This event brought together 5 eminent Leaders in HR, from various companies, on a common platform to share their expertise and experiences with the audience. They highlighted the skills required to gain entry into and sustain in the corporate sector . They urged the students to acquire the following skills

1. Good Communication skill
2. To think innovatively
3. To inculcate virtues
4. To incorporate reading books
5. To have a positive outlook
6. To give back to society (knowledge sharing / do projects which have societal relevance)

"FALL SEVEN TIMES, STAND UP EIGHT.

POWER SEMINAR ON CHOOSING SCHOLARLY JOURNALS AND GUIDELINES TO PUBLISH ARTICLES

Conducted by: ICT Academy



SEMINAR ON CHOOSING SCHOLARLY JOURNALS AND GUIDELINES TO PUBLISH ARTICLES

FACULTY ATTENDED:

MR. J YUVARAJ, AP/ECE

MS. SHOBANA, ASSO. PROF./EEE

MS. REVATHY, AP/ECE

A systematic approach to choosing the right journal Work through the four-step approach below, answering the questions listed for each factor to help you decide the right journal for your particular paper.

Note that the first two steps are specific to you, and not to the journal—if you're not clear what you want publication to achieve, you're not yet ready to choose among journals.

Step 1. State your message

Step 2. Decide your specific publication goals

Step 3. Check journal's scope, setup, reputation, and impact

Step 4. Decide which journal best meets your requirements

*THE ONLY TRUE WISDOM IS
IN KNOWING YOU KNOW
NOTHING*

SALESFORCE WORKSHOP



4 DAY WORKSHOP ON SALESFORCE

BY MR BENJAMIN - COINING
SOLUTIONS

The Salesforce fundamentals for Business Administration Specialists course will provide an understanding of what's possible with the Salesforce platform, its specific applications, and their business values and benefits. Students would be given an overview of the Salesforce clouds and how they integrate and interconnect.

The hands on training was given to 54 students on Business Administration. The target for a day was to complete a module and earn a badge.

Cumulatively the students completed five modules which led them to earn a superbadge. Salesforce badges are accredited worldwide and learner can include them in their LinkedIn profile. This could help them network with others in the Salesforce community and gain placement opportunities.

*THE MOST
UNPROFITABLE ITEM
EVER MANUFACTURED IS
AN EXCUSE.*



WOMEN EMPOWERMENT CELL

JANUARY 2018

RIGHT START- FOR A BRIGHT CAREER EVENT:

BY MS.CAROLYNJOEL,



The guest lecture began by 1:30 pm , with a divine bliss, Ms.shrilekha sang the prayer song , this was followed by the welcome speech given by Ms.DollyIrene A/P ,ECE department (coordinator of the women empowerment cell).The first session was hosted by Ms.CarolynJoel,which was quite innovative and interesting and made us to think about our dreams and goal in life. Her talk was so deep which made us to think over and again .The session was interactive , many students actively participated in it. She provoked our responsibilities and made us to realise the value of life. She also spoke about the positive and negative forces working in our life. It was an eye opening session where we actually realised the values of life

"FEMINISM ISN'T ABOUT MAKING WOMEN STRONG. WOMEN ARE ALREADY STRONG. IT'S ABOUT CHANGING THE WAY THE WORLD PERCEIVES THAT STRENGTH."



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