K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109
ELECTRONICS AND TELECOMMUNICATION ENGINEERING
2021 – 2022 ODD SEMESTER
Report on "Internet Of Things(IOT) workshop"

Date of WorkShop:26/11/2021 to 28/11/2021

Venue: CPL Lab, KSIT College, Bangalore **Organized**

by : K S Institute Of Technology, Bengaluru**Scope and**

Objectives:

Awareness of MQTT clients, MQTT server and its Programming

Day1:(Morning Session)

Speaker-1: Prof.Ravishankar Holla,Assistant Professor, Dept of Electronics and Communication Engineering, RVCE Bengaluru. He completed his Masters of Engineering from UVCE, Bengaluru

Prof. RaviShankar is currently pursuing his PHD in the field of Machine Learning for Agriculture.

He has over all 11 years of teaching experience and 3 years of Industry experience. He has accomplished research projects in collaboration with National Centre for Flexible Electronics-

IIT Kanpur, centre of Excellence- Macro electronics-Technical Education Quality Improvement program 1.2.1-RVCE. He has also done consultancy projects with M/s SAMSUNG, BEMCO FLUIDIK and SLN Hardware and he was actively involved in the project from SPIRE lab IISC,bengaluru

Guests arrived at 9:00 am inaguration started at 9:15 am Chief Guest for inauguration was Prof.Ravishankar Holla Asst. Prof... Dept of ECE,RVCE, Bengaluru. Guests informed about the IOT workshop and started the Session with the Introduction To IOT and its Prototyping and its Architecture. He explained about the Architecture of microcontroller and its Applications.

Day1:(Morning Session)

Day1:(Afternoon Session)

In afternoon session he explained about current trends in the market and making use of this trends to obtain the opportunity. he explained about some iot examples like smart watches ,smart washing machine and home automation etc.He gave an idea about ESP32,ESP8266,Nodemcu Architecture and how a WifiModule works and how it is easily related to IOT applications.

Day1:(Evening Session)

In Evening session he explained about the profit margin of the industries and architecture of Nodemcu and its applications. He also mentioned how to use ardiuno IDE Tool and he taught some basic examples of ardiuno. He explained the procedure to get the installed libraries and code to dump nsidw the nodemcu component and he gave us to execute an blinking of an Led program using ardunio IDE tool and examples of it.
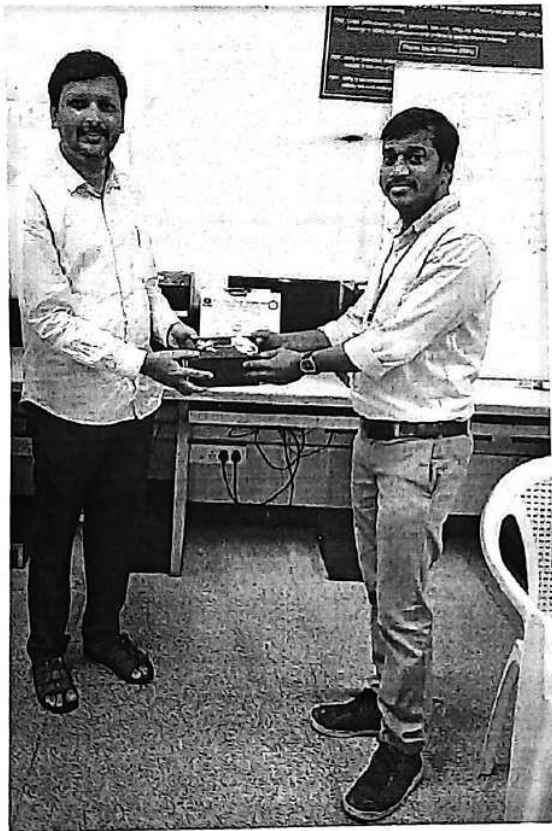
Day 2:(Morning Session)

Speaker-2:Professor Rajesh Sudi,Assistant Professor,Dept of Electronics and communication engineering from Jyothy Institute Of Technology.

He has completed his Bachelors degree in telecommunication Engineering and Master's degree from VTU, Belagavi in RF MEMS and another Master's degree from Jain University, Bengaluru in Embedded System Design. He won the Gold Medal in his M. Tech Degree. He has 9 years of teaching at undergraduate level and 3 years of research experience and 4+ years of industry experience.

In a Day 2 workshop session Prof Rajesh Sudi Explained about the live Hands on session about the NodeMcu pin diagrams, drivers that will support for NodeMcu and its applications. Through NodeMcu how we can do blinking of an led, to Detect the temperature and Humidity Sensor using a NodeMcu .

Day 2:(Afternoon Session)

He Explained about creating a webpage on webserver and in the webserver to display the temperature and Humidity sensor values practically. He gave the information regarding the DHT 11 sensors and gave the codes to run on Ardiuno IDE tool to compile and dump into NodeMcu. He explained to download libraries for the Sensors which we were using to generate web servers etc.

Day 2:(Evening Session)

At the end of day 2 session he explained about BLYNK APP which was available PlayStore/ios to install it and he gave some basic information regarding that App.

He made a Live Hands on Session with BLYNK APP by connecting from Phone to webserver and to control the operations from the mobile itself to turn the led on and off.He explained to connect Nodemcu and DHT11 sensor and Relay in a BreadBoard and told to control the operations from relay and display the led.

Day 3:(Morning Session)

At Morning Session we had an Talk from an industry person namely Mr. Somshekhar Y our resource person.He has completed his BE Telecommunication Engineering from KSIT. He pursued his Master's Degree from Manipal University. At present he is working at Advanced Micro Devices(AMD) as a member Technical Staff. He has been serving this company for past 6 years. He has over 8 years of industry experience in VLSI. He shared his experience to everyone that how a outside industry works and present upgradations happening over a industry. He explained how the VLSI field has importance in outside market and he explained about the payscale of an VLSI Design Engineer. He briefly explained how the core sector has a demand in day to day life compared to the IT sector and mentioned about how VLSI works Frontend and Backend from Basic Level to Advanced Level.

Day 3:(Afternoon Session)

At afternoon session Prof. Rajesh Sudi sir guided us to try once again the Hands on Session on BLYNK App to relay circuit to control led and he explained the basics concepts of an **INTEL GALLILEO** board and its Architecture. He also gave the comparision with **INTEL GALLILEO** and **RASPBERRY PI** boards. He refered us to do a blynking of an led from **INTEL GALLILEO** board and at the end of the session he gave us the basic knowledge of an implementing an idea using an iot concept and the session was concluded.

Workshop Outcomes:

- Had Practical experience on IOT platform
- Got knowledge on usage of libraries based on various sensors like Gallellio Board,DHT11 etc.
- We gained the basic knowledge about various protocols used when communicating with hardware to software
- We had great Team work in debugging and solving the problems

POs Achieved from IOT workshop:
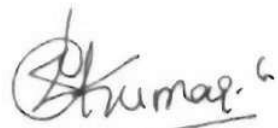
PO1: Science and Technology knowledge
PO2: Problem Analysis
PO3: Design and Development
PO9:: Individual and Team work
PO10: Communication

Submitted by

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K.S. INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE &ENGINEERING

Talk on

'Entrepreneurship'

By EDC cell in association with ALUMNI

Speaker Mrs. Kavitha Shenoi delivering the talk

Kavitha Shenoi is an internationally certified Trainer, Speaker and Author. She is an Electronics Engineer and an alumnus of the Indian Institute of Management, Bangalore, with over 20 years of experience in the ITindustry.

She is the founder of **Krishika School**. She is an accomplished manager with outstanding business acumen, technical-leadership and big-picture thinking. She is a natural collaborative strategist with consistent success in multi-national and cross-cultural projects. She is also, a consensus builder with excellent communication and presentation skills. Her rich industry experience and learning renders all her training programs impactful and world-class benefitting more than 5000 participants, across the country.
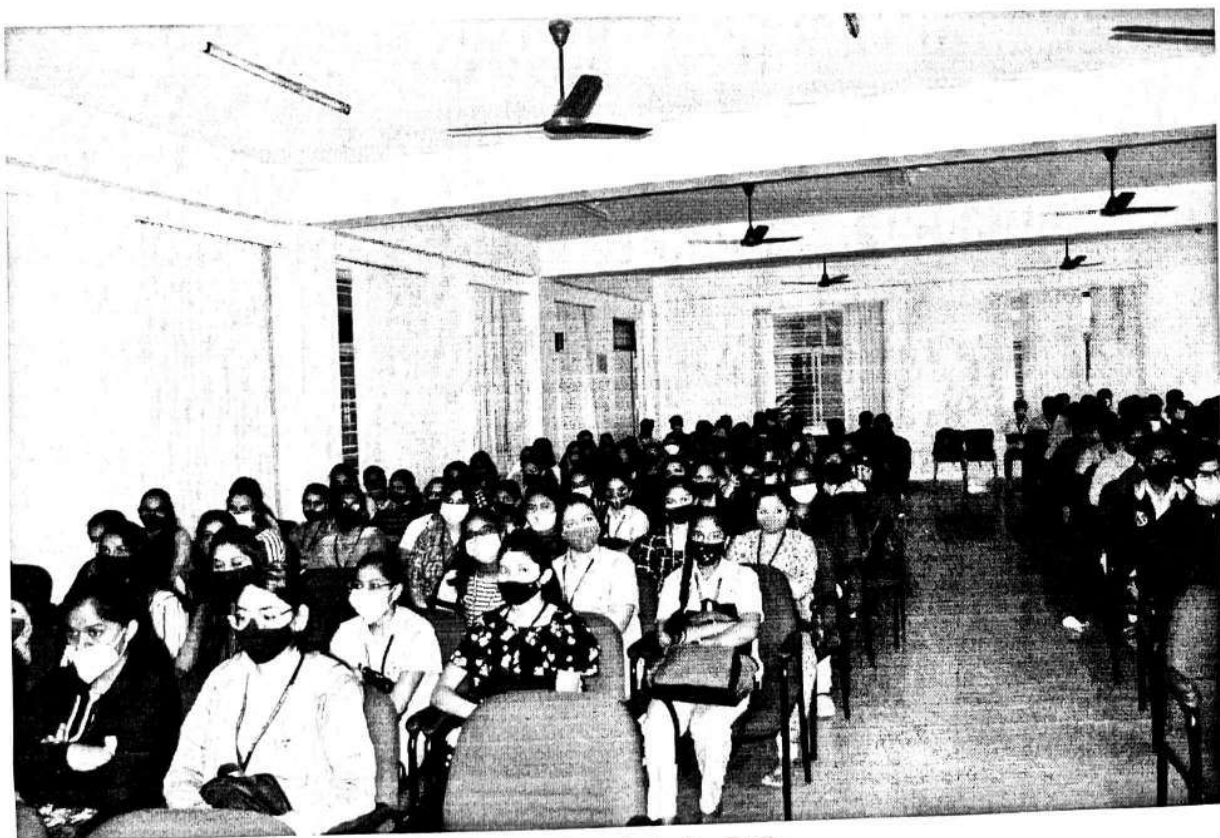
Through her book '**The Green Business - How to Grow Money on Tress**', she strives to elevate the much needed eco-entrepreneurial ambience in the country. She believes "experimenting to excel", alone drives us to the pinnacleof our potential.

Introduction

The Talk on "Entrepreneurship" took place in the conference hall on Nov 26th 2021 at 11:30am. The talk was all about igniting the minds of young graduates with innovative ideas.
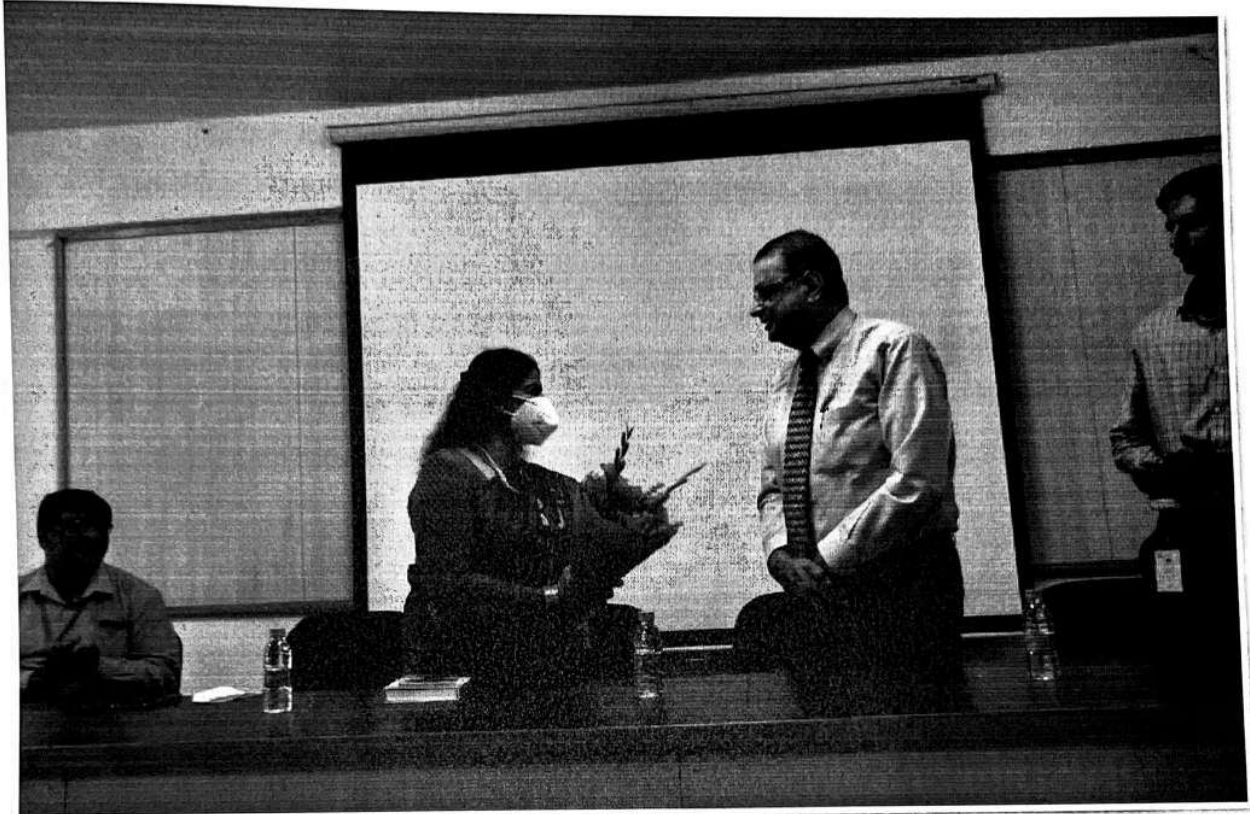
Agenda

"Financial Independence through Entrepreneurial Brilliance and Innovation"

Participants in the Talk

The speaker shared her experience as being a successful **Shepreneurs Women** in our country. She did interact with students about their academics and gave some tips to improve. She explained some case studies that explainsthe much needed eco-entrepreneurial ambience in the country.

Felicitation ceremony by our CEO - Dr. K.V.A. Balaji, Prof-Dr. K Venkata Rao, CO-Mr. Krishna Gudi

Methods To Identify Emergence of New Ideas

- **Feel the pain** - According to the speaker, there is no need to scratch our heads for new ideas. Just to observe the problem in our daily activities and to innovate that solutions.

- **Sense the trend** - See the market needs, up's and down's, competitors and what is the survival rate and so on.

- **Start now** - Start with what you have and proceed.

As there is a need for young entrepreneurs in our country. Even Government of India has introduced many schemes to support upcoming enterprises in context of "*Atmanirbhar Bharat* - self reliant India".Many opportunities arewaiting for young entrepreneurs and we have to grab those opportunities.

Felicitation ceremony by our principal - Dr. Dilip Kumar K

We from Entrepreneurship Development Cell(EDC) in association with KSIT Alumni Association(KSITAA), Thank all the professors who had made their time and efforts.

We even thank Niranjan Balaji of KSITAA for continuous support, student co ordinators, and all the students who had participated in the event and making the event successful.

Thanking one and ALL....!!

Chief Co-ordinator
ED Cell

Principal/Director

Report on KSIT Alumni Meet on 28-11-2021

The Alumni Meet was organized on 28th November 2021 in KSIT conference hall at 10:30 am & 165 Alumni have attended the meet.

The Registrations for the Alumni Meet started at 09.30 am

The KSIT Alumni Office to carry out all the meetings and activities of Alumni Association was inaugurated by Sri. Rajagopal Naidu, President of Kammavari Sangham & Sri. Vinay K R, President of KSIT Alumni Association and during the inauguration office bearers of the association, Principal of KSIT Dr. Dilipkumar K, Principal of KSSEM Dr. Ramanarasimha, Heads of all the Departments & Alumni were present.

Mr. Balasubramanian E, Alumni of 2005 & Presently working as Manager at publicis Sapient currently working as was present as the Chief Guest for the Alumni Meet. Sri. Lakshminarayana N, Alumni of 2011 Batch & Currently working as Team lead at World Emp, was present as Guest of Honor. Sri. Subramanya K S, Alumni of 2013 batch & founding member of sensible Intelligence & Enmaz Engineering services was also present as guest of Honour. Sri. Rajagopala Naidu, President of Kammavari Sangham presided over the function and Sri. T Neerajakshulu Naidu, Honorary Treasurer; Kammavari Sangham also graced the occasion. Dr. DilipKumar K, Principal of K.S.I.T and Rector of the Alumni Association also graced the occasion.

Meet began with an invocation song by Seventh semester Students of Mechanical Engineering, Sumukha & Anirudh. Then Mr.Anilkumar A, Secretary of KSIT Alumni Association proposed a welcome address to all the dignitaries.

Then the Guests addressed the gathering. They shared their successful journey and also refreshed their memories of the college days in KSIT.

Few of the Alumni present have shared their views and memories at KSIT during their stay.

After the Alumni interaction all the Alumni Guests and Alumni Achievers were felicitated by the Management of Kammavari Sangham and dignitaries on the dais. And finally meeting ended with a vote of thanks by Prof. Jayasudha of Electronics & Communication Engineering and Alumni have assembled for a group photo session in the Lawn area and followed by lunch.

Alumni Coordinator

(Anilkumar A)

Principal

(Dr. Dilipkumar K)