

# Konnnect 2019<sub>b</sub>

**Annual Report**  
**July 2018 - March 2019**



**Department of Telecommunication Engineering**  
**Accredited by NBA for FIVE years in the (Tier-I Format)**

**BMS COLLEGE OF ENGINEERING**  
**Affiliated to VTU, Accredited by NAAC**  
**Bengaluru-560019**

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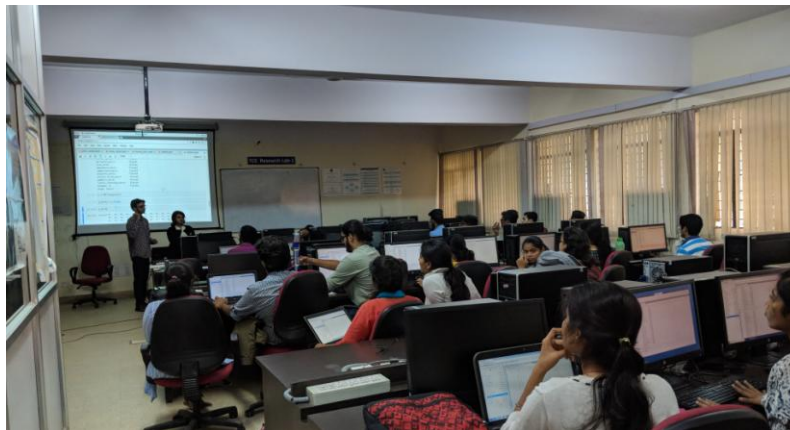
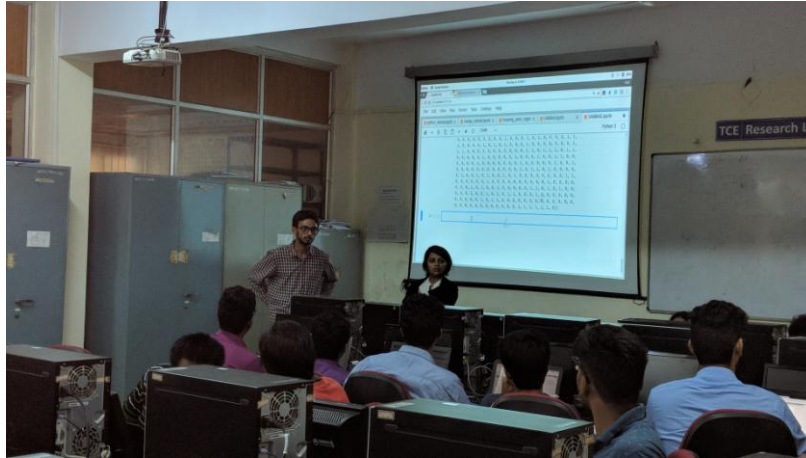
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## Workshops Organized

Sl.No	Title of Workshop	Date(s)	Participants
1	Machine Learning	9 <sup>th</sup> August, 2018	5 <sup>th</sup> Semester Students
2	Leading a Life of Visionary	7 <sup>th</sup> to 8 <sup>th</sup> September, 2018	3 <sup>rd</sup> Semester Students
3	Ardui-know!	15 <sup>th</sup> to 16 <sup>th</sup> September, 2018	11 teams
4	Raspberry Pi	15 <sup>th</sup> September, 2018	51 Students
5	HAM Workshop	15 <sup>th</sup> September, 2018	39 Students
6	VSAT based Wide Area Networks	16 <sup>th</sup> September, 2018	23 Students
7	Oracle Cloud Day for Engineering students	31 <sup>st</sup> January, 2019	90 Students

# MACHINE LEARNING

9<sup>th</sup> August, 2018



## Participants Statistics

Students: 5<sup>th</sup> Semester Students

## Workshop Brief

The hands on session were conducted by Mr. Anil BS, Octet Electronics Solutions, Alumnus We were introduced to various new concepts such as Regressions, modelling and Artificial Intelligence and tried out a few small projects as well. It was an extremely fun and important workshop as we learn about one of the most in-demand domain in Computer Sciences and Technology right now. The programming skills, which we learnt, are very much necessary in the industry currently

**Coordinator:** Dr Rajeshwari Hegde

## CARRIER VIZION

7<sup>th</sup> to 8<sup>th</sup> September, 2018



### Participants Statistics

Students: 3<sup>rd</sup> Semester Students

### Workshop Brief

The hands on session were conducted by Mr. Prashanth Rao, President, Saddiksha Public Charitable Trust

The session was started off by Mr. Prashanth Rao, with a brief description on the importance of commitment and contribution in one's life. Mind is like a monkey ,the thoughts always wander between the past and the further . So the students were told this mantra to bring their mind back to the present : " I am not listening , that I am not listening, that I am not listening".

The thing that distresses most of the young minds is fear. Fear is the threshold that one needs to cross over to reach their goal.The students were then exposed to three kinds of fears that is the actual fear, psychological fear, fantasy fear. A practical demonstration on the same was given. Sir believes that the only way to fight the fear is to feel it.

Second day, session started off by Mr. Prashanth Rao with a recap highlighting the previous day topics. The vision statement of Amazon was shown during the session. Short term vision statements like "To help people to be healthy. To have our product in every home in India." were shown. Following short term vision statements some long term vision statements were also shown along. Vision statements help to define goals, creating something to work towards in the future.

**Coordinator: Dr Rajeshwari Hegde**

## PHASE SHIFT – 2018- ARDUI – KNOW !

15<sup>th</sup> to 16<sup>th</sup> September, 2018



### Participants Statistics

Students: 11 Teams

### Workshop Brief

The event mainly focused on giving a basic knowledge of the working of the arduino to the participants and bringing out the innovative ideas in them in order to build mini projects.

15th September, there was a basic hands on workshop handled by the resource people from The Engineering Store. On the second day, 16th September, Each team was asked to prepare a PPT regarding the project they wanted to work on and the practical implementation of it .Each team gave the presentation for not more than 5 min. The competition was held for 3hrs. The resource people gave the right guidance to all the teams in making their mini projects. Towards the end all the teams were once again asked to explain and present the projects to the judge.

Mr. BGS Srinivas was the judge for the competition. Based on the technical aspect , creativity, application of theoretical knowledge and other criteria, the top three teams were selected and given the kits .The event was successfully concluded by HOD, Dr. Rajeshwari Hegde

**Coordinator: Dr PRASANNA KUMAR M K**

## PHASE SHIFT – 2018 - RASPBERRY PI

15<sup>th</sup> September, 2018



### Participants Statistics

Students: 51

### Workshop Brief

The hands on session were conducted by Mr. Anil BS, Octet Electronics Solutions, Alumnus. The workshop started with the basics of Raspberry Pi: What it is?, How is it being used?, Various Applications, Models etc. Some of the applications of the Raspberry pi as Email Notification light, Media Player, Wall mounted Google calendar, drone with camera, A.I Navigation, N.A.S, Robotic Navigation and Pi Cubesat were shown in the session. Following the applications of Raspberry Pi was the Linux session. Anil explained on what Linux is and where it is employed in real life like U.S Dept of Defence, CERN , Federal Aviation Administration etc. Following these was the introduction of the Raspbian which is used as an Operating System for Raspberry Pi.

The workshop was very interactive and from time to time attendees were given recap of topics covered. After a quick recap, GPIO pin manipulation using Python in RPi was taught. Initially, Anil explained the basic electronics connections on breadboard and then the blinking of LED using RPi was done.

**Coordinator: T Anushalalitha**

## PHASE SHIFT – 2018 - HAM WORKSHOP

15<sup>th</sup> September, 2018



### Participants Statistics

Students: 39

### Workshop Brief

The hands on session were conducted by Mr. B A Subramni, Secretary and Satiton Director, ISRO's Upagrah Amateur Radio Club

Amateur radio, also known as ham radio, describes the use of radio frequency spectrum for purposes of non-commercial exchange of messages, wireless experimentation, self-training, private recreation, radio sport, contesting, and emergency communication. The term "amateur" is used to specify "a duly authorised person interested in radio electric practice with a purely personal aim and without pecuniary interest" and to differentiate it from commercial broadcasting, public safety

The speaker also enlightened the participants about a satellite, the importance, classifications and the laws obeyed by the orbiting satellites. Mr. Subramani also spoke about satellites and their types and the speed required for a satellite to be launched and to orbit around a planet. He also provided a brief comparison of the various orbits.

The second session consisted of the introduction to Amateur HAM radio and its usefulness. The Speaker provided information on the satellite OSCAR, which is an orbiting satellite carrying Amateur radio wherein free launches are provided. Here, the activities are not only restricted to terrestrial communication

**Coordinator: Arachana K**



# PHASE SHIFT – 2018 - VSAT BASED WIDE AREA NETWORKS

16<sup>th</sup> September, 2018



## Participants Statistics

Students: 23

## Workshop Brief

The hands on session were conducted by Mr. Samba Murthy C V, Director, CB Institute of NW Technologies

The workshop started by an introduction to the fundamentals of networking. Network configuration: IP address, subnet mask, default gateway, DHCP server, DNS services, MAC address was explained. The different Networking tasks such as design, plan, prepare, implement, operate, sustain, troubleshoot was taught. Various types of connections such as switches and routers and their functions were briefly explained. The different parts which constitute a network such as the switch, routers, firewall, WAN, VPN , IPS , IDS was shown in a block diagram form .

After a brief introduction to networking, a hands on experience was given by asking the participants to build a small office network project using the CISCO packet tracer software. The codes were given and explained. He taught how to execute the project.

**Coordinator: Shreenivas B**

# ORACLE CLOUD DAY FOR ENGINEERING STUDENTS

31<sup>st</sup> January, 2018



## Participants Statistics

Students: 100

## Workshop Brief

The session were conducted by Mr. Dr.Kamala Deep Peter, Mr. Hemant Bansal Ms. Divya Gurnani and Mr. Nishar Ahmed Soneji

The workshop started with the big question, “why do we need cloud?” by Mr Anup Mishra. He briefed us about the benefits of cloud , cloud providers and gave us an overview of the various cloud models

He also spoke about micro service architecture and severless architecture where the user needs to worry about how the problem is to be solved and its execution is carried out by the provider .He spoke about the concerns regarding the security and privacy and how oracle takes measure to give the best service and protection to its client’s data

The second session was about the synchronization of data in cloud which has two steps, the initial load and the replication. With some practical examples and demos she showed us how the Autonomous Data Warehouse Cloud works.

**Coordinator: Dr Rajeshwari Hegde, Dr Manjunath P S**

## Industrial Visits Organized

SNo	Date	Industry
1	15 <sup>th</sup> February, 2019	Stellapps Technologies
2	15 <sup>th</sup> February, 2019	Zscaler

## Industrial Visit to STELLAPPS TECHNOLOGIES PVT LTD AND ZSCALER

15<sup>th</sup> February, 2019



STELLAPPS TECHNOLOGIES PVT LTD which is basically an IoT based company. The company concentrated on the implementation of IoT in the field of agriculture mainly on Dairy Farming. They explained as where all their ideas have been implemented starting from the milking of cows till the plants where various dairy products are produced. They collect milk from farmers and check for the fat and SNF values, based on these values farmers were paid appropriately. The details about the milk like quality and quantity were sent on cloud so that total transparency could be maintained. We got to know the idea of IoT in those field and they asked us to improve on it.

ZSCALER Company, This company works on cloud computing and cloud security and basically a SaS(which provide services) oriented company. At an average they do 800,000 transactions per second. It is one of the leaders in secure web gate ways magic quadrant for almost 8 years overtaking cisco and other companies. We were informed about importance of cloud security and its application in future.

**Coordinator:** Dr Rajeshwari Hegde, Dr Manjunath P S

## Extension Lectures Organized

SNo	Name of the Invited Scholar with full Address	Title of the Lecture Delivered	Date of Lecture
1	Prasanna Krishna, Founder , Welfare Harvesters	Self-Development	9 <sup>th</sup> August, 2018
2	Ravishankar, IT Consultant	Career Vision	9 <sup>th</sup> August, 2018
3	Yogesh Pathak, Co-Founder & Head , Technoforte Software Pvt. Ltd.	Goal Setting	10 <sup>th</sup> August, 2018
4	Dr Gurusurthy Hegde, Prof.CNR Rao Chair Professor	How to write a research paper?	10 <sup>th</sup> August, 2018
5	Mr Gopalan, Group Head, Intel, India	Time and stress management	11 <sup>th</sup> August, 2018
6	Dr Rajalaxmi, Founder, Health and Emotions	Health and Emotions	11 <sup>th</sup> August, 2018
7	Arun Naniyat, Section Manager, HP	Leading a balanced life	18 <sup>th</sup> August, 2018
8	Amarjeeth Khanuja, Section Manager, HP	Relationship Management	25 <sup>th</sup> August, 2018
9	P S Satish, Director, Saraswati Industrial Services, Bangalore	S.P.I.R.I.T for Success	27 <sup>th</sup> August, 2018
10	Vinay Rao, Project Leader, CISCO	Opportunities for Telecom Engineers	27 <sup>th</sup> August, 2018
11	Rithesh Nanda, Proprietor, Dhruvin Innovations	Entrepreneurship and Personal Development	27 <sup>th</sup> August, 2018
12	Dr Mohandas Hegde, Director, CREST, Bangalore	Self Development	28 <sup>th</sup> August, 2018
13	Mr Mohan, Senior Application Engineer, Digital Shark	Personality Development	29 <sup>th</sup> August, 2018
14	Dr Vasanthakumari, Retd Principal, Hearfulness Trainer	How to make students life meaningful and fruitful	30 <sup>th</sup> August, 2018
15	Dr Rajalaxmi, Founder, Health and Emotions	Health and Emotions	30 <sup>th</sup> August, 2018
16	Dr Bhavani Ranganathan, Principal (Retd), Kendriya Vidyalaya, Gujarat	Values and Attitudes	1 <sup>st</sup> September, 2018
17	Dr Sharath Kumar, CTO, Reliance JIO	Evolution of Wireless Communication, 2G to 5G	1 <sup>st</sup> September, 2018
18	Kireeti Kesavamurthy , Analytics-Architect, VISE-Inc	Data and the Network	22 <sup>nd</sup> September, 2018

19	Prabhas Kanti Mandal, Senior Project Engineer, Hardware, Rockwell	Signal Integrity and Power Integrity	29 <sup>th</sup> September, 2018
20	Ani BS, Founder, Octet Electronics	Importance of Coding for Non-IT students	29 <sup>th</sup> September, 2018
21	Mr.Bharath Bharadwaj founder, Rare Brains	Individual Development	4 <sup>th</sup> October, 2018
22	Mr.Ravishankar, IT Consultant	Computer Basics and Programming	13 <sup>th</sup> October, 2018
23	Mr.B.S.Anil (Alumni), Founder, Octet Electronics	Introduction to Linux and command line interface	13 <sup>th</sup> October, 2018
24	Ravi N S, Value Stream Leader, Multi Vendor Integrations – CM, and Ashish Agrawal, System Engineer,	Radio Network Planning and Optmization “ and “Self Organizing Networks	24 <sup>th</sup> October, 2018
25	Dr.Rameshaiah G.N, Professor, Dept. of Chemical Engineering, BMSCE	GATE 2020	5 <sup>th</sup> February, 2019
26	Prof. Mukta of B M S College of Law	Cyber law and Cyber Crime: Issues and Challenges	6 <sup>th</sup> March, 2019, MPS
27	Mr Varun Ajmani, Gigma company at San Franscio	Motivational talk	6 <sup>th</sup> March, 2019, BK
28	Abhiram K S, Alumni, Application Engineer, Keysight Technologies	Signal Integrity and Measurement Solutions	23 <sup>rd</sup> March , 2019,
29	Samba Murthy, Director, CB Institute of NW Technologies, Bangalore	Next Generation Networks	23 <sup>rd</sup> March , 2019,
30	Anil BS, Alumni, Founder, Octet Electronics Solutions	Coding Skills	24 <sup>th</sup> March, 2019 , RH and PKM
31	Shri. Krishna Pratap singh of T.I.M.E institute	orientation talk	27 <sup>th</sup> March, 2019,
32	Dr. Shambhavi of ISE department	Data Structures, Algorithms & its applications	10 <sup>th</sup> April, 2019, RH
33	Dr Rajeshwari Hegde, TE, BMSCE	Self Development	10 <sup>th</sup> April, 2019, RH

# Self-Development

## By Mr Prasanna Krishna, CEO & Founder of Welfare Harvesters and Director at MEOH Tech LLP

9<sup>th</sup> August, 2018



### Statics of Participants:

3<sup>rd</sup> Semester Students

### Extension lecture Brief:

Speaker Mr. B G Prasanna Krishna gave a brief introduction to self-development. His talk included the need and importance of self-development in student's life. Self-development enriches new skills and motivates in innovating and inventing new ideas. The methods of development are to set out short term and long term goals like sprint and marathon. Self-control can be gained through meditation.

Short term goals make one aware of his long term goals which in turn help in accomplishing the set out goal. There were interactive moments between the students and the Speaker, where there was exchange of information with questions and answers. At the end of the session, there were a few minutes of meditation and relaxation of mind & body. It was pleasure having him as the speaker and is thankful to him for sharing inspiring thoughts with aspiring students.

## Career Vision

By Mr Ravishankar, IT Consultant

9<sup>th</sup> August, 2018



### Extension lecture Brief:

The first session on Day 1 of the induction was a speech on “Career Vision” given by Dr.Ravi Shankar. This was a highly motivating and inspirations speech as we stepped into our Pre-final year. In the noon session, all the students watched a motivational movie, “The Man who knew Infinity”, which is a biopic of the life of the Greatest Mathematician of India and the World, Srinivasa Ramanujan. It is an extremely touching and inspirational movie for any Engineer.



## Goal Setting

By Mr Yogesh Pathak, Co-Founder & Head , Technoforte  
Software Pvt. Ltd

10<sup>th</sup> August, 2018



### Statics of Participants:

Students:22 Faculty:4

### Extension lecture Brief:

Speaker Mr. Yogesh Pathak gave a brief overview on goal setting. Firstly, he talked about the purpose of goal setting and emphasized that it gives a direction, challenge, energy and make think outside the box. He conducted simple games so as to realize that at most times goals are not generally focused due to which goal is neither relevant nor attainable. Therefore, there must be a fixed goal which is Specific (S), Measurable (M), Attainable (A), Relevant (R) and Time-bound (T) i.e., SMART.

Large goals are to be broken down into simple smaller compartments to accomplish it easily step by step. In this regard examples were demonstrated through activities to suggest that Goal is to be kept in the forefront so as to be always visible and focussed, etc

# How to write a research paper?

By Dr Gurumurthy Hegde, Prof.CNR Rao Chair Professor  
10<sup>th</sup> August,2018



## Statics of Participants:

7<sup>th</sup> Semester Students

## Extension lecture Brief:

An invited talk on “how to write Research papers “ was delivered by Dr.Gurumurthy Hegde, from the R & D dept, BMSCE. He took through the whole process and journey of Research and how writing papers should be approached.

The pros and Cons of writing such research papers were explained to all of the students in detail and thus the students acquired much needed enlightenment on this topic, which would be used by the students when they write papers on our current, Final year and future Projects as well.

# Time and stress management – Self Management

By Mr Gopalan, Group Head, Intel, India

11<sup>th</sup> August, 2018



## Statics of Participants:

Students:22 Faculty:03

## Extension lecture Brief:

Speaker Mr. Gopalan Oppiliappan gave a brief outline on self-management. Self-management is all about managing time and stress. The session started with self-assessment and analysis which ensured the goodness of time management. The prime cause of irregular time management is procrastination; improper time management leads to stress. He discussed about the causes of stress and shared techniques like 'kanban board' and 'matrix method' to manage and fall in line with time.

Assigning the sources of stress to sphere of control, influence and concern help in avoiding unnecessary stress. On the other hand, he also highlighted the distractions faced by us in reality and told us to be focused on our aim. Overall, interacting with him was beneficial, productive and was pleasure for having him on the event.

# Health and Emotions

## By Dr Rajalaxmi, Founder, Health and Emotions

11<sup>th</sup> August, 2018



### Statics of Participants:

7<sup>th</sup> Semester Students

### Extension lecture Brief:

Dr. Rajalaxmi, a gynecologist and infertility specialist even holds postgraduate degree in pediatrics and as a passion holds degrees in various areas psychology, sexology .Worked with government non-government programs partnering with many institutions and corporate companies including teachers training program with UNICEF, ISRO in creating CYBER SAFETY with regard to e crime. She believes education enriches life, learning creates LIFE itself. She has conducted awareness programs for 26 lakhs children around India. She has delivered hundreds of programs around the country and charges nothing.

Dr. Rajalakshmi gave a talk on Health and emotions. She explained how health and emotions are connected, how emotions affect health and science behind health and emotions. She explained about when we are overloaded with work, if we perceive with emotions it's going to be burden, whereas with collective intelligence it's going to be simple and fun. She explained power of connectivity and brain science in adolescent, how students can contribute towards wellness of society through their healthy mind. How brain plays important role in decision making and the speed of reflection in brain towards emotions are explained in the talk. She explained about 8 cognitive areas in brain and need of connection with people through empathy, patience and intelligence. She also explained about difference between relaxation and laziness. That is when intelligence deserves rest after work it is relaxation and when emotions demands rest, it is laziness.

**Leading a balanced life**  
**By Mr Arun Naniyat, Section Manager, HP**  
18<sup>th</sup> August, 2018



**Statics of Participants:**

3<sup>rd</sup> Semester Students

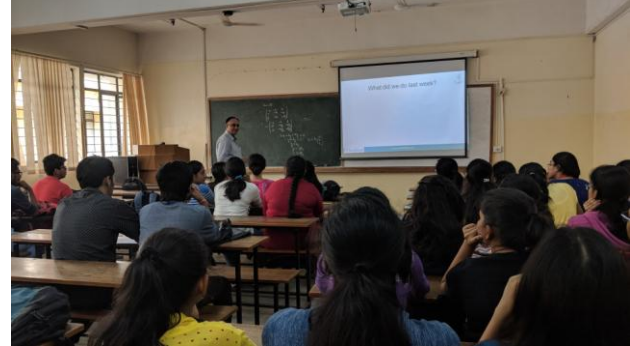
**Extension lecture Brief:**

Arun started with the definition of Education. Education really means to draw out of you, your best....To prepare you to be fit citizens who can serve society... and pursue a balanced life” - Shri Parthasarathi Rajagopalachariji

He explained the need for leading a balanced life with many examples. The session was very interactive and all the students actively participated in the interactive session.

# Relationship Management

By Mr Amarjeeth Khanuja, Section Manager, HP  
25<sup>th</sup> August, 2018



## Statics of Participants:

3<sup>rd</sup> Semester Students

## Extension lecture Brief:

A talk on heartfelt relationships by an industry expert Mr Amarjeeth helped the students discover their relationship status with their family, friends, society etc. and the time they spend for themselves and how they can manage the other relations.

This session gave the students a chance to understand others feelings by visualizing themselves in their shoes and also gave the students a deep insight of their inner self. The session was very interactive and useful.

**S.P.I.R.I.T for Success**  
**By Mr P S Satish, Director, Saraswati Industrial Services,**  
**Bangalore**  
27<sup>th</sup> August, 2018



**Statics of Participants:**

1<sup>st</sup> Semester Students

**Extension lecture Brief:**

Our speaker Mr. P.S. Satish started the session talking about the importance of reality and action on time. He spoke about how the way we handle the consequences of our choices determine our future. The three most important Ds in India- Democracy, Demand and Demographic dividend significantly affect our opportunities and our future.

He went on to speak about Lord Rama and Raja Harishchandra facing the consequences of their choices and the path they took. He explained about the importance of our attitude and response towards the consequences of our choices in shaping our future. He advised us to be inquisitive engineers rather than be a person with just an engineering degree. He said, "A real engineer is a student forever."

He elaborated on the title of the session 'SPIRIT' as- Strategy, Process, Initiative, Research, Identity and Team respectively. We should strategize and decide to become an employee, entrepreneur or to pursue higher studies rather than just make a choice. In this process, we must manage our time, be punctual and stay healthy.

# Opportunities for Telecom Engineers

## By Mr Vinay Rao, Project Leader, CISCO

27<sup>th</sup> August,2018



### **Statics of Participants:**

1<sup>st</sup> Semester Students

### **Extension lecture Brief:**

We were told about the capacity a student should acquire to go beyond the knowledge the teacher gives. We were told about how Telecommunication is similar to other branches and we should make most of it where ever we are and take maximum we from the opportunities and teaching the teacher gives.

We also got to know how coding helps in future. As Vinay Kumar was a person who takes interview we also got to know of how they focus on honest resume, Project Passed questions and the computer field too



# **Entrepreneurship and Personal Development**

## **By Mr Rithesh Nanda, Proprietor, Dhruvin Innovations**

27<sup>th</sup> August, 2018



### **Statics of Participants:**

1<sup>st</sup> Semester Students

### **Extension lecture Brief:**

The talk addressed difficulties and hurdles that students may face in their progression through the course. It also gave them insight as to how they need to approach and pace through engineering in order to build a profile, which would make them stand apart.

It gave students an idea about MOOCs and Online Certifications and how these can help them gain the skills they might need to stay in sync with the industry. It also gave them an idea about entrepreneurship and how they can realize their dreams and convert them to reality.

# Self-Development

## By Dr Mohandas Hegde, Director, CREST, Bangalore

28<sup>th</sup> August, 2018



### Statics of Participants:

1<sup>st</sup> Semester Students

### Extension lecture Brief:

During the session Dr. Mohandas Hegde made students to interact with him. He puts many questions forward about our responsibilities. He comes with a beautiful point that to take initiative age doesn't matter. And even for the creative thinking age does not matter. He says spiritualism is not exactly religious it can be non-religious also he also say about spiritual input in effective human resource development for corporate management.

He says "mar marke jeene ka koi fayda nahi.... Jeena hei toh pur dil se jeeye". And whenever we do any kind of work we have to do with lots of interest and one must get involved completely to get the best result out of it.

He quotes the saying that "Hamare taqdeer hamare hooth mei". Our future is in our hands and if we work really hard a successful person come out of inner us. The only thing we need to do is to shape our self with better skills, better knowledge and better attitude.

# Personality Development

## By Mr Mohan, Senior Application Engineer, Digital Shark

29<sup>th</sup> August, 2018



### Statics of Participants:

1<sup>st</sup> Semester Students

### Extension lecture Brief:

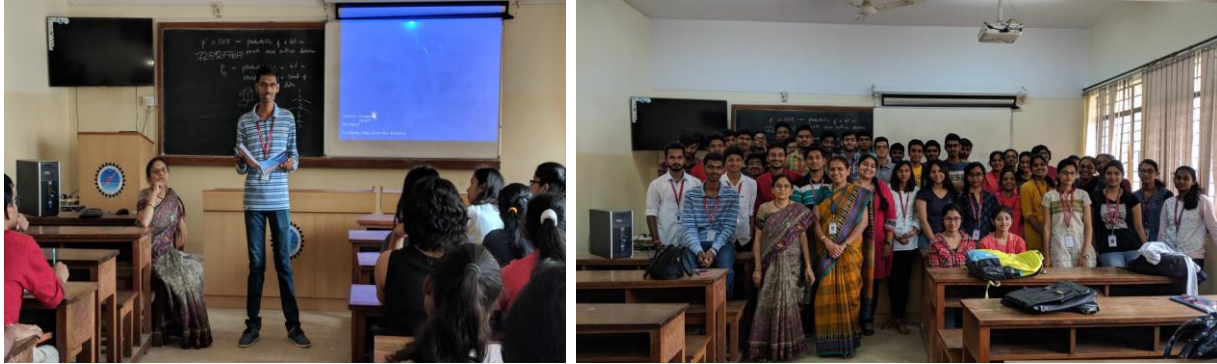
The talk started with Maslow's hierarchy needs for the profession which gave information on physical needs, security needs, social needs, ego and self-actualization (the need for development ,creativity). self-actualization....It refers to man's desire for self-fulfillment, namely to the tendency for him to become actually in what he is potentially. The importance of knowing technology trends from the Gartner Hype cycle for emerging technologies were specified.

The over view of future jobs like Productivity Counselors, Personal Digital Curator, Microbial Balancer, Corporate Disorganizer, Curiosity Tutor, Alternative Currency Speculator, Urban Shepherd, Digital Death Manager, Digital Detox Therapist, Ethical Technology advocate and associated top 10 skills like Complex problem-solving, Critical thinking, Creativity, People management, Coordinating with others, Emotional intelligence, Judgment and decision-making, Service orientation, Negotiation, Cognitive flexibility were mentioned.

# How to make students life meaningful and fruitful

## By Dr Vasanthakumari, Retd Principal, Hearfulness Trainer

30<sup>th</sup> August, 2018



### Statics of Participants:

1<sup>st</sup> Semester Students

### Extension lecture Brief:

The session started with interaction with the students to select the topics for discussion. Students were divided into groups and based on the majority; a topic on “How to make a student life meaningful and fruitful” was selected for discussion. Each group was given 30 minutes to think about the topic and the team leaders presented the collective views of their team members about the topic.

The sessions were moderated by Dr Vasanthakumari. The session concluded with thanks giving by Dr Rajeshwari Hegde

## **Health and Emotions**

**By Dr Rajalaxmi, Founder, Health and Emotions**  
30<sup>th</sup> August, 2018



### **Statics of Participants:**

1<sup>st</sup> Semester Students

### **Extension lecture Brief:**

Dr. Rajalakshmi gave a talk on Health and emotions. She explained how health and emotions are connected, how emotions affect health and science behind health and emotions. She explained about when we are overloaded with work, if we perceive with emotions it's going to be burden, whereas with collective intelligence it's going to be simple and fun.

She explained power of connectivity and brain science in adolescent, how students can contribute towards wellness of society through their healthy mind. How brain plays important role in decision making and the speed of reflection in brain towards emotions are explained in the talk. She explained about 8 cognitive areas in brain and need of connection with people through empathy, patience and intelligence. She also explained about difference between relaxation and laziness. That is when intelligence deserves rest after work it is relaxation and when emotions demands rest, it is laziness.

# Values and Attitudes

By Dr Bhavani Ranganathan, Principal (Retd), Kendriya Vidyalaya, Gujarat  
1<sup>st</sup> September, 2018



## Statics of Participants:

3<sup>rd</sup> Semester Students

## Extension lecture Brief:

The regard that something is held to deserve; the importance, worth, or usefulness of something. "your support is of great value"

synonyms: merit, worth, usefulness, use, utility, practicality, advantage, desirability, benefit, gain, profit, good, service, help, helpfulness, assistance, effectiveness, efficacy, avail, importance, significance, point, sense; informal mileage

"the value of adequate preparation cannot be understated"

She explained values and attitudes, taking her own examples while reaching the college on time. Then the interactive session started with asking the students of their core values as mentioned below

# Evolution of Wireless Communication, 2G to 5G

## By Dr Sharath Kumar, CTO, Reliance JIO

1<sup>st</sup> September, 2018



### Statics of Participants:

Students:60 Faculty:01

### Extension lecture Brief:

He started the talk with experience in Reliance JIO on network planning in different cities and the challenges faced etc. The talk continued with introduction to 2G, its data rate, the need for 3G, its benefits compared to 3G, migration to 4G operational challenges, cost of operation, and ongoing research on 5G etc. HE also emphasized on the radiation hazards of mobile communication.

**Coordinator:** Dr Rajeshwari Hegde

# Data and the Network

By Mr Kireeti Kesavamurthy , Analytics-Architect, VISE-Inc  
22<sup>nd</sup> September, 2018



## Statics of Participants:

Students:52 Faculty:01

## Extension lecture Brief:

He started off by giving us an intro on what he would be talking about and then started off with the current trends in the market. He explained to us the growth of technology, especially in the smartphone sector, using graphs and statistics. He then touched upon various other topics like the use of Internet data worldwide and in India. We were also surprised to know that India is the country with the largest number of users accessing internet on their mobile phones.

He gave us an insight into the implementation of AI and ML in websites like Google and Facebook as well as in other companies. He told us about his personal journey and the hardships he had to face when he was looking out for jobs.

The talk was rounded off by sir giving us some valuable advice on what to learn and where we can access these contents online for free so that we could learn them.

**Coordinator:** Dr Rajeshwari Hegde and Dr Manjunath P S



# Signal Integrity and Power Integrity

## By Mr Prabhas Kanti Mandal, Senior Project Engineer- Hardware, Rockwell

29<sup>th</sup> September, 2018



### Statics of Participants:

Students: 50 Faculty:01

### Extension lecture Brief:

The talk was started with the definition of Signal integrity and the concepts involved in Signal integrity like Reflection, Dispersion, Attenuation were explained. In the same way the definition of Power Integrity was defined and the concepts which are involved in the Power integrity were explained.

On Voltage Integrity the speaker addressed regarding the lower threshold, upper threshold, noise margin , what are the consequences faces when the signal is in noise margin and how to overcome the problems when the signal is in noise margin. He further discussed the reasons of power loss in a medium like skin effect.

**Coordinator: Dr Rajeshwari Hegde**

# **Importance of Coding for Non-IT students**

## **By Mr Ani BS, Founder, Octet Electronics**

29<sup>th</sup> September, 2018

### **Statics of Participants:**

5<sup>th</sup> Semester Students

### **Extension lecture Brief:**

Since the session was held on Saturday, many couldn't attend and almost 50 attendees were present. During the session, Anil introduced motto of the club i.e. to improve their skill in coding. Python is in a very high demand these days, so, people were asked to focus mainly on Python. There are many modules and environments in Python which works best when used in Linux. Even companies are interested in people with the knowledge of Linux. So, basically we'll be using Python in Linux.

After each session a project will be given which should be uploaded on one's GitHub account within a specified time limit and will be evaluated. If someone fails to complete the project will be removed from the club, since self-learning needs discipline, if someone is really interested in coding will strive for it.

**Coordinator: Dr Rajeshwari Hegde**

# Individual Development

## By Mr.Bharath Bharadwaj, founder, Rare Brains

4<sup>th</sup> October, 2018



### Statics of Participants:

3<sup>rd</sup> Semester Students

### Extension lecture Brief:

Introductory session regarding the same was given to the students of Telecom department by the members of FARO. The students were briefed about scientific practices for the development as a student. They gave an opportunity to express our interest in the form of drawing which awakened the creative part of the brain. The students were taught the science of developing oneself which one can implement it in their lives to be better individuals.

The program stressed on developing one's mental, intellectual strength and innovative things that a human mind can do with proper scientific

**Coordinator:** Dr Rajeshwari Hegde and P S Gowra

# Computer Basics and Programming

## By Mr.Ravishankar, IT Consultant

13<sup>th</sup> October, 2018



### Statics of Participants:

3<sup>rd</sup> Semester Students

### Extension lecture Brief:

The session took off by the introduction for the training program, which briefed the students about the motto of the present and upcoming sessions. The students were briefed about the various domains, where an individual can work on his interests. The various domains included 'EMBEDDED SYSTEMS', 'VLSI', 'DATA SCIENTIST', 'DATA ARCHITECT' and other blooming fields of engineering.

In the first session students were given an idea of how a computer works. What is Operating System? How does computer boots? Then the session was continued by teaching the various hardware parts, as it is essential to learn the basics before the actual usage of these components. Then the students were given some assignments to work on. They were also told to work on their communication skills which have great impact in industry sector.

In the end, the students were asked to identify their domain of interest. In the upcoming sessions the training will get mainstreamed based on the domains opted by the students and more exposure will be given in those respective domains.

**Coordinator: K P Pushpavathi**

# **Introduction to Linux and command line interface**

## **By Mr B.S.Anil (Alumni), Founder, Octet Electronics**

13<sup>th</sup> October, 2018

### **Statics of Participants:**

Students:60

### **Extension lecture Brief:**

The session started with an introduction to Linux terminal, its application in real life like CERN followed by

- Basic commands on Linux terminal.
- Creation and deletion of directory.
- Installation of various libraries and packages.
- Creation of files and writing a program on the nano text editor which will be created as a sub-folder in the main file.
- Commands to view the contents of the editor on the terminal.
- Execution of the code typed in the editor on the Linux terminal.

Later, all the participants were trained to write a program wherein summary of the content entered by the user was displayed on the terminal. This was implemented by

- Installation of Wikipedia module by suitable commands on the terminal.
- Importing the module as a library while writing the program on the nano text editor.
- Upon execution, the word on which the summary has to be obtained and the number of lines of information to be retrieved from Wikipedia was obtained as an input by the user.

**Coordinator: Dr Rajeshwari Hegde**

# Radio Network Planning and Optimization and Self Organizing Networks

By Mr Ravi N S, Value Stream Leader, Multi Vendor Integrations – CM, and Ashish Agrawal, System Engineer,

24<sup>th</sup> November, 2018



## Statics of Participants:

7<sup>th</sup> Semester Students

## Extension lecture Brief:

Two invited talks on “Radio Networks Evolution including Planning and Optimization” and “Self Organizing Networks” by Mr Ravi NS Project Manager and Ashish Agrawal, Systems Engineer, Nokia Networks Nokia were organized for the 7th semester. The talks covered the practical aspects of wireless communications and GSM Technology.

They gave a very comprehensive view of what a wireless network is and how calls are actually made. They interacted with the students and explained how they used the network planning tool software in the industry to plan installation of antennas in a city. They also informed the students about an auction that took place for selection of spectral frequencies by companies and how even very few frequencies can be used to provide communication for millions of subscribers with the correct network planning.

They gave a brief overview of the parts of a network, described the different databases that store subscriber information, the types of interferences that are caused in a mobile network and also elaborated on how a network planner ensures smooth handover for their users.

# **Importance of writing a research paper**

**By Dr Sharath Kumar, CTO, Reliance JIO, Bangalore**  
1<sup>st</sup> December, 2018



## **Statics of Participants:**

5<sup>th</sup> Semester Students

## **Extension lecture Brief:**

We were taken through the whole process and journey of Research and how writing papers should be approached. The pros and Cons of writing such research papers were explained to all of us in detail and thus we acquired much needed enlightenment on this topic, which we will all be using when we write papers on our current, Final year and future Projects as well.

**GATE 2020**  
**By Dr.Rameshaiah G.N, Professor, Dept. of Chemical**  
**Engineering, BMSCE**  
5<sup>th</sup> February, 2019



**Statics of Participants:**

Students:47 Faculty:03

**Extension lecture Brief:**

In his address, Dr Rameshaiah G.N briefed the importance of GATE scores and their validity. He discussed the GATE 2019-20 procedures and related issues. With the need for the GATE score for the higher education, public and few private sectors, the facilitating measure taken by the college, to guide the students was specified. The course syllabus taught was also verified with that of the GATE syllables and was found that, about 95% of GATE Syllabus is being taught in the class. He also encouraged the students to appear for the GATE exams with all the facilities provided to them like the on/off line trainings, and assistance from the college. The address was concluded with a note of thanks and motivation.

**Coordinator: K P Pushpavathi**



## Faculty as Resource Persons

Sl.	Name of Faculty	Nature of Program	Title Program	Date	Venue
1	Dr Rajeshwari Hegde	Conference	Session chair in IEEE International Conference on Networking, Embedded Wireless and Signal Processing,	28 <sup>th</sup> December 2018	BMSCE
		Conference	Session chair in 3rd IEEE International Conference On Electronics, Communication, Computer Technologies and Optimization Techniques ,	14 <sup>th</sup> December 2018	GSSITW, Mysore
2	Dr.C.Gururaj	Open House Project Expo - 2018	Project Evaluation Judge	29 <sup>th</sup> September 2018	RNSIT, Bengaluru
		IEEE Conference	Session chair in IEEE International Conference on Intelligent and Innovative Computing Applications (ICONIC - 2018)	6 <sup>th</sup> to 7 <sup>th</sup> of December 2018	Plaine Magnien, Mauritius

## Faculty Training Program Participated

Sl. No	Name of Faculty	Program attended	Date	Venue
1	Rajeshwari Hegde	Summer School 2018 on Signal Processing, Communication and Networking	2nd to 6th July, 2018	IIT Bombay
		Outcome Based Education Platform	16th July, 2018	SRM University, Amaravati, AP
		4th World Summit on Accreditation (WOSA)	8th to 9th September, 2018	New Delhi
		MHRD sponsored FDP (GIAN) on Meditation and Resilience-Positive Aspects of Meditation on Young people and adults	28th January to 1st February, 2019	IIT Kharagpur
		TEQIP 3 sponsored workshop on Developing and Deploying Analytics for Cyber Physical Systems	3rd to 6th February 2019	16th International conference on Remote Engineering and Virtual Instrumentation(RE V 2019)BMSCE, with IAOE
2	T.Anushalalitha	TEQIP 3 sponsored workshop on Developing and Deploying Analytics for Cyber Physical Systems	3rd to 6th February 2019	16th International conference on Remote Engineering and Virtual Instrumentation(RE V 2019)BMSCE, with IAOE
		TEQIP 3 sponsored workshop on How to create a Remote Experiment	3rd to 6th February 2019	16th International conference on Remote Engineering and Virtual Instrumentation(RE V 2019)BMSCE, with IAOE

3	Balachandra K	Summer School 2018 on Signal Processing, Communication and Networking	2nd to 6th July, 2018	IIT Bombay
4	Dr.C.Gururaj	NPTEL on Digital Circuits	4th July - 28th October, 2018	12 Weeks MOOC offered by Indian Institute of Technology, Kharagpu
		NPTEL on Digital Image Processing	4th July - 28th October, 2018	12 Weeks MOOC offered by Indian Institute of Technology, Kharagpur
5	Ambika K	Queuing Theory and Stochastic Process for Advanced Systems	2nd July - 13th July 2018	BMSCE, Bangalore

## Faculty Publications

1. Yash Verma, Vinny Kinger, **P.S. Gowra**, "Offline e-platform ticket booking using nRF52832 " in International Conference on Advances in Computer Science and Application- CSA 2018 on 14th July, 2018 at Cochin ,Kerala.
2. **Rajeshwari Hegde, Prasanna Kumar M K**, Suyash Bhatt, Gopalan Oppiliappan, "Learning outcomes of a national level project contest" , International conference on transformations in engineering education 2018, SRM university, Amaravathi, 15 July 2018
3. Asha K S, **Rajeshwari Hegde**, "Parameter Based Efficient & Reliable routing technique to enhance Network Lifetime for Vehicular Ad Hoc Networks", **International Journal of Engineering & Technology**, 7 (3.12) (2018) pp-57-61
4. Nikhil Srikar K A, Anup G, Ranjita Chandrashekar V, Suma K, **Rajeshwari Hegde**, Sharath Kumar, " Regulations and Policies for Sustainability of Telecommunication Industry", REST Journal on Emerging trends in Modelling and Manufacturing, Vol:4(1),2018, ISSN: 2455-4537 , July 2018
5. **Pushpavathi. K.P** , **Archana K**, "Alternate Assessment Tools in studying Transmission Lines and Antennas for UG curriculum - a study", International conference on transformations in engineering education 2018, SRM university, Amaravathi, 15 July 2018
6. Akshay KM, Rahul Hebbbar, R Harshavardan, Roshan, **Manjunath P S**, "Implementation of Security System and its Interconnection with Lighting" First International Conference on Photonics, Signal Processing and Communication Technologies ICPSPT – 2018, 18<sup>th</sup> July 2018
7. Sushanth S , Akshay K M, Raghu P , R Harshavardan, **Rajeshwari Hegde**, Sharath Kumar, "Techniques Driving Energy Efficiency Contributing to Environment Sustainability Goals", REST Journal on Emerging trends in Modelling and Manufacturing, Vol:4(1),2018, ISSN: 2455-4537 , July 2018
8. Sushanth S , Raghu P, C B Manikanta, **Rajeshwari Hegde**, B S Nagabhushana, " CAN Infrastructure for Automotive Applications", Second International Conference on Green Computing and Internet of Things (ICGCIoT 2018), August 2018, Bangalore

9. Anshuman Mohanty, Pranav Giria, Saptaswa Pal, Vishruthi K Acharya and **Rajeshwari Hegde**, “NFC Featured Triple Tier ATM Protection”, Second International Conference on Green Computing and Internet of Things (ICGCIoT 2018), August 2018, Bangalore
10. Geetishree Mishra, **Rajeshwari Hegde**, “ Task Scheduling with Load Balancing on Automotive Multicore ECUs”, International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering - (ICRIEECE), August 2018
11. Nikhil Srikar K A, Harshini V C, Harshita B, **Rajeshwari Hegde**, “Low Cost Breath Analyzed Ignition Interlock System”, IEEE 4th International Conference for Convergence in Technology (I2CT 2018), October 2018, Mangalore .
12. **Balachandra K**, PG Poonacha, “ A study of Pitch Estimation of Musical Notes and Three Derivations of 22 Shrutis in Indian Classical Music “,International Journal of Pure and Applied Mathematics, Volume 119 , No. 18 , pp. 1971-2010 ,September 2018
13. Shrisha Bharadwaj, Anil B.S, Abhiraj Pahargarh, Adhiraj Pahargarh **P.S.Gowra**, Sharath Kumar “*Customer Churn prediction in mobile networks using Logistic Regression and Multilayer Perceptron(MLP)*” in second international conference on green computing and internet of things from 16-18 August 2018 at Global Academy of Technology, Bangalore.
14. **B. Kanmani**, Enhancing Student Performance through effective development of Program Outcomes, fourth world summit on accreditation-WOSA 2018, 7<sup>TH</sup> September 2018, New Delhi
15. **B. Kanmani**, Enhancing industry institute collaboration, fourth world summit on accreditation-WOSA 2018, 7<sup>TH</sup> September 2018, New Delhi.
16. **C. Gururaj**, “ Defining Course Outcomes based on Program Outcomes and Bloom” s Taxonomy for the course on Image Processing “ , November 29, 6th IEEE International Conference on MOOCs, Innovation and Technology in Education (MITE – 2018), MLRIT, Hyderabad
17. **C Gururaj**, “Proficient Algorithm for Features Mining in Fundus Images through Content Based Image Retrieval”, IEEE International Conference on Intelligent and Innovative Computing Applications (ICONIC – 2018), held at Plaine Magnien, Mauritius, December 2018

18. Pranav M Bharadwaj, Akash R Kathavate, Sandarsh M K, **Rajeshwari Hegde**, Sharath Kumar, “Study comparing the performance of MIMO versus Phased Array antenna systems for 5G mobile communication systems”, Third IEEE International Conference on Electrical, Electronics, Communication, Computer technologies and Optimisation Techniques (ICEECCOT – 2018), GSSSIETW, Mysuru, December 2018
19. **K. Pushpavathi, B Kanmani**, “Frequency Sampling Method of FIR Filter design: Comparative Study”, Third IEEE International Conference on Electrical, Electronics, Communication, Computer technologies and Optimisation Techniques (ICEECCOT – 2018), GSSSIETW, Mysuru, December 2018
20. Akash R K, Bhanupriya, **Rajeshwari Hegde**, Sharath Kumar, “Different Aspects of 5G Wireless Network - An Overview”, BDCC 2018 - EAI International Conference, Coimbatore, December 2018
21. Madhura A, **Rajeshwari Hegde**, “Music Synthesis on Different Musical Instruments Using ARM Cortex-M4F Microcontroller”, International Conference on Networking, Embedded Wireless and Signal Processing (ICNEWS-2018), December 2018, Bangalore
22. Hrushikesh Deshpande, Harsha Ramesh, **Rajeshwari Hegde**, “Comparison Study of Network Services”, IEEE 3<sup>rd</sup> International Conference on Inventive Systems and control, Coimbatore, January 2019.
23. Akshatha N, K Harishree J Rai, Haritha M K, Rachita Ramesh, **Rajeshwari Hegde**, Sharath Kumar, “Tactile Internet: Next Generation IOT”, IEEE 3<sup>rd</sup> International Conference on Inventive Systems and control, Coimbatore, January 2019.
24. Urvi Ajit Jere, S P Skanda, Sneha Bhat, Yashasvi R Machani, Uma Gouri, **Rajeshwari Hegde**, Sharath Kumar, “Operational Support Systems for Mobile Networks”, IEEE 3<sup>rd</sup> International Conference on Inventive Systems and control, Coimbatore, January 2019.
25. Navya Shree N, Sanchita Vishwa, Keertana Kamesh, Radhika Ravikumar, **Rajeshwari Hegde**, Sharath Kumar, “Security Challenges in Mobile Communication Networks”, IEEE 3<sup>rd</sup> International Conference on Inventive Systems and control, Coimbatore, January 2019.

26. Nischitha.R, Abdul Ahad Momin, Aishwarya.S, Anagha Lakshmi.H, **Rajeshwari Hegde**, Sharath Kumar, “National Telecom Policy and their Impact on Indian Economy”, IEEE 3<sup>rd</sup> International Conference on Inventive Systems and control, Coimbotore, January 2019.
27. Achala Bhandari, Adil, Jasmine Shrestha, Rushingwa Divin Ntwali , **Rajeshwari Hegde** and Sharath Kumar, “Evolution and growth of GSM in SAARC Countries, IEEE 3<sup>rd</sup> International Conference on Inventive Systems and control, Coimbotore, January 2019.
28. Sanchita Vishwa, **Rajeshwari Hegde**, “Optimisation of Network Processor Microarchitecture”, International Conference On Networking, Communication And Computing Technology (ICNCCT), January 2019, Jaipur
29. **T. Anusha Lalitha**, “Open Education Resources and New Age Teachers”, REV 2019, 16th International Conference on Remote Engineering and Virtual Instrumentation, BMSCE, Bangalore, 4<sup>th</sup> February, 2019.
30. **T. Anusha Lalitha**, “A smart HEMS architecture using Zigbee”, REV 2019, 16th International Conference on Remote Engineering and Virtual Instrumentation, BMSCE, Bangalore, 4<sup>th</sup> February,2019.
31. Jayanthi Muthuswamy, **B. Kanmani** “Optimization Based Liver Contour Extraction of Abdominal CT Images”, International Journal of Electrical and Computer Engineering (IJECE) , Vol.8, No.6, December2018, pp. 5061~5070, ISSN: 2088-8708, DOI: 10.11591/ijece.v8i6.pp.5061-5070
32. **Ambika**, Radhika KR, “ Secure and robust gait authentication using biometric approach: a review”, international journal of computer technology and applications, vol.9(6), 400-413 dec 2018.