

Konnnect 2018_b

Annual Report
July 2017 - June 2018



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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Workshops Organized

Sl.No	Title of Workshop	Date(s)	Funding Agency	Participants
1	Communication Skills (Lateral Entry Students)	28 th July 2017	Free	10 students
2	Networking	15 th to 16 th September, 2017	Free	60 students
3	MATLAB GUI Development Workshop	15 th to 16 th September, 2017		57 students
4	IOT workshop	15 th to 16 th September, 2017		56 students
5	HAM Workshop	15 th to 16 th September, 2017		66 students
6	FDP on Building scalable CISCO internetworks	4 th to 9 th January , 2018		30 faculty
7	Data Structures and Algorithms	4 th to 9 th January, 2018		30 students
8	Yoga and Meditation	21 st June 2018		35

PHASE SHIFT 2017 - NETWORKING WORKSHOP

15th – 16th September, 2017



Participants Statistics

Students: 60

Workshop Brief

The hands on session were conducted by Mr. SambaMurthy, Vigven Tech Mark, Bangalore

The workshop focused on implementing project works, theoretical concepts on networking and teaching the basics of networking and designing small office networks. CISCO packet tracer tool is used for understanding theoretical concepts

Outcome of the Workshop

1. Exposure to basics of networking.
2. Ability to design experiments using modern engineering tool: packet tracer
3. Hands on experiments to learn basics better

Coordinator: Shreenivas B, M Vasantha Lakshmi

PHASE SHIFT 2017 - MATLAB GUI DEVELOPMENT WORKSHOP

15th – 16th September, 2017



Participants Statistics

Students: 57

Workshop Brief

The hands on session were conducted by Mr. Srinivasa B G, BGS Infotech, Bangalore

The workshop focused on implementing project works, theoretical concepts on a user interface known as GUI with the help of Matlab Tool. GUI helps in implementing the project with more user interaction. Some of the topics of workshop are as follows. Need for user interface, Layers of application, Guide tool, Call back to functions, Function handlers

Outcome of the Workshop

1. Exposure to GUI in project implementation with more user interactions.
2. Ability to design experiments using modern engineering tool: Matlab

Coordinator: Prasanna Kumar M K

PHASE SHIFT 2017 – INTERNET OF THINGS WORKSHOP

15th – 16th September, 2017

Participants Statistics

Students Teams: 11

Workshop Brief

The hands on session were conducted by Mr. Rather Sajad, Edgate Technologies, Bangalore

The workshop was aimed at getting acquainted with development boards other than Arduino and learning the basics of IoT followed by an All India contest Drishti, conducted by Texas Instruments.

Coordinator: T Anushalalitha

PHASE SHIFT 2017 – HAM WORKSHOP

15th – 16th September, 2017

Participants Statistics

Students Teams: 33

Workshop Brief

The hands on session were conducted by Team from HAM Society of India, Bangalore

The workshop was basically a look through of how a transmitter and a receiver is made, the components etc. Followed by a live demonstration of transmission and reception of voice.

Coordinator: Ambika K and Arachana K

BUILDING SCALABE CISCO INTERNETWORKS

4th to 9th January, 2018



Participants Statistics

Faculty: 29

Workshop Brief

The hands on session were conducted by Mr. SambaMurthy, Vigven Tech Mark, Bangalore

The workshop had theory and hands-on sessions on networking. The software used for simulation in the laboratory was GNS3. The workshop had 29 participants from various departments and colleges. The training sessions were handled by Mr. Samba Murthy, General Manager Vigven and Mr. Dhruvada from Vigven assisted him during laboratory sessions. The program was graced by Dr. K. Mallikharjuna Babu, Principal, BMSCE, and Mr Satya, CEO, Atto Communications, Bangalore was the chief guest.

Coordinator: P S Gowra, Balachandra K, M Vasanthashmi

DATA STRUCTURES AND ALGORITHMS

4th to 9th January, 2018



Participants Statistics

Students : 29

Workshop Brief

The hands on session were conducted by Dr HS Guruprasad and Dr Shambhavi BR, Bangalore

The course was conducted in such a way that students learnt to code naturally, by trying out the concepts taught to them practically and learning from the errors. Within 3 days the students were able to apply the concepts learnt to solve a problem statement provided to them, which required students to learn concepts in C programming like file handling etc ,by referring to online sources or textbooks . The students had to present their project at the end of the course on Jan 9th.

Coordinator: P S Gowra, Rajeshwari Hegde

YOGA AND MEDITATION

21st June, 2018



Participants Statistics

Participants : 30

Workshop Brief

Sameer Kulkarni, 4th semester student of Telecommunication Engineering started the inaugural with an invocation. For the remaining part of the function, Ms Vibha Prasad, a 5th semester student was the host. A welcome speech by Dr Shivaram Reddy, Director, Department of Physical Education followed the invocation where the chief guest, guest of honor, HODs, participants were welcomed. Thereafter, the chief guests were invited to address the gathering.

Following asanas were taught to the participants

Breathing Asanas

1. Om Chanting
2. Nadi Shuddhi I
3. Nadi Shuddhi II & III

Sitting style Asanas

1. Padmasana
2. Gomukhasana
3. Titli Asana
4. Shishupal Asana

Coordinator: P S Gowra, Rajeshwari Hegde

Industrial Visits Organized

SNo	Date	Industry
1	4 th September 2017	ISRO
2	4 th September 2017	HAL
3	17th January 2018	Stellapps Technologies
4	17th January 2018	Zscaler
5	28th February 2018	HAL
6	28th February 2018	Alpha Design Technologies

Industrial Visit to ISRO and HAL

4th September 2017



On September 4th 2017, the V semester students paid a visit to both ISRO and HAL Museum. ISRO sure was a memorable experience. The ISRO Satellite Centre (ISAC) in Bangalore is the Headquarter of the organization. The students were first introduced to the basic functionalities of each department in the organization and the missions so far were also explained and told about different centers in India and their main functions.

The students were also explained about how the satellites are launched and about the vehicles which carry the same such as PSLV and GSLV. They were also told about different types of satellites according to their Axes revolution. After this, students were taken to simulation labs and thermal labs to show how different parts of the satellites were tested before mounting the same. After this, Students were taken to Climatic lab where satellites are tested for different drastic climatic conditions; this gave an enriching, once-in-a-lifetime experience to the students. All in all, this visit left a lasting impact.

The next pit stop was at the HAL Museum. This museum shows the Indian Aviation Industry in its depth. It houses various models of aircrafts and helicopters that were a fascinating view for sure! The Wall of Fame inside the museum took the students through the journey of HAL.

Coordinators: Mr P S Manjunath, Dr Rajeshwari Hegde

Industrial Visit to Stellaps and ZScaler 17th January 2018



Industrial visit for 6th semester students. Stellaps is India's first Dairy IoT company, providing IOT based solutions to improve the quality and efficiency of milk collection and processing. The students were introduced to some of their flagship products like SmartAMCU and ConTrak. SmartAMCU™ is an Automatic Milk Collection Unit (AMCU) that optimizes and simplifies milk procurement for dairy farmers, milk collection centres, and societies in general. The system provides infrastructure for fast determination of the quality of the milk in terms of Fat and SNF content and determining the price to be paid to the farmer. The data about the milk provided by the farmer is collected and stored on cloud servers.

After Lunch the class visited Zscaler-a global cloud-based information security company that provides Internet security, web security, next generation firewalls, sandboxing, SSL inspection, antivirus, vulnerability management and granular control of user activity in cloud computing, mobile and Internet of things environments.

Coordinators: Mr P S Manjunath, Dr Rajeshwari Hegde

Industrial Visit to HAL and Alpha Design Technologies 28th February, 2018

	आगतक पास / Visitor Pass आर.इन्सु.आर.डी.डी. प्रभाग RWRDC Division
पास नं. / Pass No :	S1-930
जारी / बजे: / Issued on/Time:	28/02/18 -10:05 hrs
तक मान्य / Valid Till :	28/02/18
नाम/ Name :	Rajeshwari hegde+54
संस्था का पता / Org with Addr :	BMS COLLEGE OF BANGALORE Phone : 9008355922
राष्ट्रीयता / Nationality :	INDIAN



The students of 6th semester Telecommunication Engineering visited HAL and Alpha Design Technologies on 28th February 2018. . The visit was very informative and the students got a broad idea of what both industries do and current technologies they are working on.

At HAL, they learnt about the basic physics involved in the flying of a helicopter, the different types of helicopters manufactured and the working of some main parts of the helicopter.

The students visited the R&D office and the corporate office of Alpha Design Technologies. They got to know their objectives, their joint venture products, the different simulators and products they provide to the Army, Navy and Air force. They were also shown and taught about the Telecommunication devices used in defence like radars, Interrogators, Software defined Radios and their limitations and applications. The students were allowed to try the tank simulator and experienced viewing night vision binoculars and thermal images.

54 students, 2 faculty Dr Rajeshwari Hegde , Prof. Manjunath PS and Mr Venkatesh M S, Instructor were part of the industrial visit.

Coordinators: Mr P S Manjunath, Dr Rajeshwari Hegde

Extension Lectures Organized

SNo	Name of the Invited Scholar with full Address	Title of the Lecture Delivered	Area of Specialization	Date of Lecture
1.	Mr Anand.M , Senior Research Engineer, C-DoT	Telecom Networks, Standards and Management in India	Computer Communication Networks	19.08.2017
2.	Mr Vinay Raj, TIME, Bangalore	Career Opportunities for Higher Education	CAT, trainer	22.08.2017
3.	Mr Ravishankar Shiroor, Co-founder and Senior Consultant, Stellapps Technologies	Sensors and Big Data Analysis in Food and Agriculture Sector	Embedded Sytems	01.09.2017
4.	Software Director, CISCO Systems USA	Industrial Aspects of Networking	Networking	5.09.2017
5.	Mr Gopalan, Senior Software Engineering Manager, Intel, India	Entrepreneurship	Software and management	9.09.2017
6.	Mr Gangadhar, Research Scholar, IISC and Mr Sairam from Philips	Arise, Awake	Physics	14.10.2017
7.	Mr B A Subramani Secretary & Station Director Upagrah Amateur Radio Club VU2URC ISRO Satellite Centre	HAM-Ametuar Radio	Communication	11.11.2017
8.	Mr Anand Bhat (Director of Engineering, Intel India)	Design for Test and its importance	VLSI	11.11.2017
9.	Dr Sharath Kumar, CTO (Special Projects), Reliance JIO	New trends in Mobile Communication-3G, 4G and beyond	Communication	16.11.2017
10	Mr Samba Murthy, General Manager, VigVin Tech	CCNA Course introduction	Networking	16.11.2017
11	Mr Samba Murthy, General Manager, VigVin Tech	CCNA and its Benefits		03.02.2018
12	Mr P S Satish Director, Saraswati Industrial Services, Bangalore	Being Successful		09.02.2018

13	Mr Keeriti Keshavmurthy	IOT Analytics		10.02.2018
14	Vighnesh Tyagarajan	How to be Industry Ready?		10.02.2018
15	Dr B Ravishankar Professor & Placement officer, BMSCE	Additional Skills for Placement		14.02.2018
16	Vinay Rao	Industry trends, evolution and relevance of Networking		09.03.2018
17	Suyash Bhatt Design Engineer, Tektronix, Bangalore	Developing and aligning skills with Technology trends		09.03.2018
18	Kritish Dhariwal	Arduino and Sensor Management		10.03.2018
19	P J Bhat	Software for Space		17.03.2018
20	Nithin Bharadwaj Associate Consultant at Siemens Healthineers, India	Real time Image Processing Applications in Medical Domain		17.03.2018
21	Sashirekha M	Why does studying abroad matter' understand the importance of the experience and how to leverage the opportunity to ensure you are meeting career goals		23.03.2018
22	Suresh G Rao Director, ORNNOVA Bangalore	The role of Digital Communication in Aerospace Engineering		06.04.2018
23	Suyash Bhatt	Technology trends & skills required for Telecom Engineers		07.04.2018
24	Mr B A Subramani Secretary & Station Director Upagrah Amateur Radio Club VU2URC ISRO Satellite Centre	HAM Radio and Space Communication		07.04.2018

Telecom Networks, Standards and Management in India

By Mr Anand.M , Senior Research Engineer, C-DoT

19th August 2017



Statics of Participants:

Students:70 Faculty:01

Extension lecture Brief:

Telecom Networks ,Standards and Management organized for the students of V semester. The session was interesting as Mr, Anand M, Senior research Engineer, C-DOT (Centre for Development of Telematics) spoke about the telecommunication industry, their standards and management happening in India. He briefed about front end and back end of the telecommunication network and the role of the standardization bodies. He briefed that the participation of C-DOT in the development of this industry is through the contribution to the standards from India..

At the end of the day the participants were aware of the advances happening in the field of Telecommunication, Standardization, management and the Contributions from India. The students found the talk informative and the outcome of the talk will be assessed through the quiz including questions from the talk.

Coordinator: K P Pushpavathi

Career Opportunities for Higher Education **By Mr Vinay Raj, TIME, Bangalore**



Statics of Participants

Students: 70 Faculty: 01

Extension lecture Brief:

The speaker mainly emphasised on CAT examination and trainings provided by T.I.M.E .

CAT is an entrance exam for mor than 160 management institutes across INDIA, including 13 IIM's .CAT focuses intensively on general aptitude which are key areas tested in most competitive exams . He also spoke about the examination procedure. The written exam is conducted every year in the month of around october- november over a test window of approximately 4 weeks.

Students are acquainted with the fundamental and basic concepts pertaining to a variety of areas that are tested in CAT and similar managment entrance exams. T.I.M.E.S Bangalore launches a specially designed well reserched course for students who are willing to write CAT exam. Training is also given for XAT,MAT,IIFT,and other management entrance exams.

The seminar was very informative regarding various options for higher studies. It is definitely one of the best institutes if you are planning to ace CAT and get into a reputed B-school.

Sensors and Big Data Analysis in Food and Agriculture Sector

Mr Ravishankar Shiroom, Co-founder and Senior Consultant, Stellapps Technologies



Statics of Participants: Students:70 Faculty:02

The third year students of the Telecommunication Engineering department attended a talk by Mr. Ravishankar on Sensors and Big Data Analytics in the Food and Agriculture Sector.

The talk started off with how much food is wasted each year and the different kinds of losses.

The sensors used in farming help with water management, temperature management, humidity control, amount of micro-nutrients in the soil control, power management, electrical fence management, etc. All these sensors help maintain the ideal conditions necessary for proper crop growth.

The sensors used in processing and distribution help with machine running and cleaning. The include GPS, gas/chemical detectors, door open/close sensors, temperature sensors, cooler/compressor ON/OFF sensors, weight sensors and power consumption sensors. These sensors make sure that the food is made fit for consumption and distributed with minimal wastage.

Coordinators: Mr Manjunath P S & Dr Rajeshwari Hegde

Entrepreneuership

Mr Gopalan, Senior Software Engineering Manager, Intel, India



Statics of Participants:

Students:76

Faculty:02

The talk titled 'entrepreneurship development' was delivered by Mr.Gopalan Oppilliapan, a Senior manager in 'Supply chain Big data and analytics' on the 9th of September in BSN hall at 11:15 a.m, to an audience of around 76 students which had most of second year students, and a few 3rd year students. The talk only took place for around 40 minutes, and was very efficiently given. He spoke about the importance of entrepreneurship and opened the students' eyes to how entrepreneurship can change the world. Many students were helped, by inspiring them to be successful entrepreneurs.

Coordinators: Mr Manjunath P S & Dr Rajeshwari Hegde

Arise, Awake

Mr Gangadhar, Research Scholar, IISC and Mr Sairam from Philips



Statics of Participants:

Students:71

Faculty:02

Department of telecommunication ,BMSCE had organized a guest lecture for students on 14th October 2017. it was delivered by Mr. Elluru Gangadhar ,research scholar department of instrumentation and applied physics, IISC Bangalore. the topic was arise and awake .the main objective of the session was to help students concentrate better, create confidence to achieve things and excel in them and the role meditation plays in achieving them. the session started at 10:00 am and went on till 11:15 am.

Session was started by quoting Swami Vivekananda words "arise and awake and rest not till the goal is achieved". the speaker compelled the need to come out of the lethargic condition and to be attentive which is much required in today's condition. Our perspective of viewing technology as a benefit was mentioned. the importance of living in the present and being conscious was emphasized .

the overall session was an interactive session and created awareness about the essence of meditation and the compulsion to stay conscious and attentive.

Coordinators: Dr Rajeshwari Hegde, P S Gowra

Space Communication- A Practical Perspective
Mr B A Subramani Secretary & Station Director Upagrah Amateur Radio
Club, VU2URC ISRO Satellite Centre
(Under IEEE student chapter, BMSCE)



Statics of Participants: Students:50 Faculty:02

The extension lecture on Space communication-A Practical Perspective was organized by Department of Telecommunication Engineering, BMS College of Engineering College, Bangalore, as part of the VII semester course SATELLITE COMMUNICATION. The session started on 11th November 2017, in the Seminar Hall of Telecommunication Engineering department, BMSCE at 10.15pm.

Faculty from TCE department, Smt.Anushalalitha.T welcomed the speaker and attended alongwith VII semester students. Vishruthi K.Acharya, VII sem student, did the formal introduction to the Resource person as Secretary & Station Director, Upagrah Amateur Radio Club VU2URC, ISRO Satellite centre. The one and half hour talk gave insights on satellite communication spanning the basics of Satellite communication such as Microwave frequencies, Radio wave propagation aspects, Modulation, Orbits-Geostationary orbits, Advantages of satellite communication, Satellite application during disasters- Ham Radio, Satellite remote sensing, satellite tracking using SDR antennas etc. The talk was interactive and helped in students in getting to know the practical aspects of Satellite communication, in general.

Coordinators: Dr Rajeshwari Hegde, T Anusha Lalitha

HAM-Ametuar Radio

Mr B A Subramani Secretary & Station Director Upagrah Amateur Radio Club, VU2URC ISRO Satellite Centre (Under IEEE student chapter, BMSCE)



Statics of Participants: Students:50 Faculty:01

Mr B A Subramani from ISRO addressed the students of 5th semester from Telecommunication branch on the steps to become an Amateur HAM Radio operator, its numerous advantages and that it not only is one of the best hobbies any engineer can undertake but can also be a great benefit to the society.

He motivated the students by telling them that by becoming a HAM Radio operator, any student can have a transmitting station at their own homes that operates as a Satellite ground station, and that this is the only hobby in India that requires a licence from the government to pursue it.

The steps he mentioned to become an operator are firstly ,the students need to have a good fundamental knowledge of electronics and wireless communication and some rules and regulation governing the working of the HAM Radio, and that they will have to pass a test based on these two topics to earn their licence to transmit and receive radio signals.

There are also a lot of fun activities that the students can participate in like treasure hunt of transmitters by building receivers, and many others that are held frequently so it is a great way to gain knowledge.

Coordinator: Dr Rajeshwari Hegde

Design for Test and its importance
By Mr Anand Bhat, (Director of Engineering, Intel India)
(Under IEEE student chapter, BMSCE)



Statics of Participants:
Students:50, Faculty:01

Mr Anand Bhat, an engineer with over 15 years of experience in VLSI field working in elite companies like Qualcomm, and presently at Intel, gave the students of Telecommunication branch 5th Semester a quick peek into the VLSI Industry. He gave a brief introduction to his domain of specialization, Design for Test.

Design for test deals with testing the manufactured chips and circuits at every step of the process. He emphasized the importance of Design for test in VLSI industry , by explaining how the cost of losses due to errors rises exponentially at each step of manufacturing, this makes testing at each step absolutely necessary , to prevent defective products.

Mr Anand Bhat patiently listened to the questions asked by the students with regards to career opportunities in the VLSI field. The students of 5th Semester TCE had a very informational and interactive session with the expert speaker.

Coordinators: Dr C Gururaj, Dr Rajeshwari Hegde

Satellite communication is an important part of progress. Satellite Communication utilisation has become wide spread and ubiquitous throughout the country for such diverse applications like Television, DTH Broadcasting, DSNG and VSAT to exploit the unique capabilities in terms of coverage and outreach. The technology has matured substantially over past three decades and is being used on commercial basis for a large number of applications. Most of us are touched by satellite communication in more ways than we realise. The potential of the technology for societal applications continue to fascinate mankind and efforts are on to leverage the benefits of technology to the betterment of mankind. Important initiatives pursued by ISRO towards societal development include Tele-education, Tele-medicine, Village Resource Centre (VRC) and Disaster Management System (DMS) Programmes. The potential of the space technology for applications of national development is enormous.



We had a valuable opportunity to interact with Mr. Subramani, who gave us lot of insights about what goes on inside the satellite domain. Key aspects includes the use of HAM radio for tracking NOAA satellite and the importance of HAM radio for a Telecommunication engineer. The professor also introduced us to a whole

new world of software defined radio. Software defined radio is a cutting edge technology that helps with lots of radio applications without the use of bulky, discrete components in the analog domain. He also provided us with various links to venture to work upon and build the interests in software defined radio. He gave us a valuable and perceptive insight into the world of satellite communication using HAM radio and told us about the satellite tracking and as to how we can take our passion in telecommunication from earth to space by flourishing in this domain through small, hobbyist projects.

Coordinators: Dr Rajeshwari Hegde and T Anusha Lalitha

Mr. Subramani from ISRO addressed the students of 5th semester from Telecommunication branch on the steps to become an Amateur HAM Radio operator, its numerous advantages and that it not only is one of the best hobbies any engineer can undertake but can also be a great benefit to the society.

He motivated the students by telling them that by becoming a HAM Radio operator, any student can have a transmitting station at their own homes that operates as a Satellite ground station, and that this is the only hobby in India that requires a license from the government to pursue it.

The steps he mentioned to become an operator are firstly ,the students need to have a good fundamental knowledge of electronics and wireless communication and some rules and regulation governing the working of the HAM Radio, and that they will have to pass a test based on these two topics to earn their license to transmit and receive radio signals.



The main advantages he highlighted of having a radio that can also transmit are that as telecommunication students they get to practically apply all that they have studied in their curriculum, and that it will make them experts in the field of Telecommunication. He said that the students can also build friendships with many other HAM Radio users across the globe from different countries and interact with them, which gives them plenty of exposure, and they can also

directly talk to astronauts too. He mentioned that the biggest benefit was providing help during natural calamities like floods, when telecommunication services are the ones which are first affected. An Amateur HAM Radio operator based anywhere in India or around the globe can help in communicating the needs between people and rescue operators.

There are also a lot of fun activities that the students can participate in like treasure hunt of transmitters by building receivers, and many others that are held frequently so it is a great way to gain knowledge.

New trends in Mobile Communication-3G, 4G and beyond By Dr Sharath Kumar, CTO (Special Projects), Reliance JIO (Under IEEE student chapter, BMSCE)



The session started with the basics of wireless communication and the architecture of GSM. The evolution of wireless networks was covered in detail. Why 4G network is called as MAGIC was explained and is due to following

- Mobile Multimedia
- Anytime Anywhere
- Global Mobility support
- Integrated wireless Solution
- Customized personal services

4G network provided data speed upto 100Mbps and the technology adopted in NG is MIMO

Coordinator: Prof P S Gowra

CCNA Course introduction

Mr Samba Murthy, General Manager, VigVin Tech (Under IEEE student chapter, BMSCE)



Department of telecommunication in associate with IEEE (student branch) has organized an introductory session on CCNA training program certified by CISCO. It was held at BMSCE on 16th November 2017.

The session started with inviting the speaker Mr. SAMBAMURTHY C V (General Manager - Technical VIGVEN TECH MARK Pvt. Ltd Bangalore) by Dr. RAJESHWARI HEGDE (HOD, TCE). The session initially started by giving the overview of Cisco certifications on CCNA. It includes entry level, association level, professional level and finally the expert level. Later the speaker told how the CCNA exams can be taken.

Then he told about why a telecom student should take up the training and how it improves the knowledge in networking and also how it will help us during the placements. Then the speaker explained us about the CCNA exam pattern and how it is conducted. Sir also told us the benefits of CCNA certification and its exposures in various fields. The session was then continued by explaining how CCNA training would take place in BMSCE. He explained the duration and assessment pattern of CCNA training program. The session was made more interactive by clarifying the questions asked by students.

Report by, AKHILA.R (1BM15TE002), ROOPA H V (1BM15TE033)

Coordinators: Shreenivas B, Dr Rajeshwari Hegde

Being Successful

On 9th of February 2018 a guest lecture by Mr. PS Satish was organized under SWAYAM student Forum of BMSCE. Mr P S Satish holds BE (Mechanical) from Mysore University with rank, and M.Tech from IIT Chennai in Mechanical Engineering. He has total 30+ Years of Industry. Experience starting from Testing, Design and Development. He is a Mentor for few industries and continuing his passion in training and teaching. Recently, he has authored the book with the title, 'Knowing is not same as doing'.



The lecture was attended by students of 4th and 2nd Semester of Telecom department.

The main theme of the talk was on “Being Successful”, Mr PS Satish started off the talk by explaining the importance of greeting, in particular he spoke about the importance of saying “Good morning” with the right attitude. He explained that it shows the energy level in a person and reflects the personality of a person. He made the students practice the art of saying “Good morning” with the right energy.

He told the students a story about an incident that happened in Mysore City, where a famous wrestler took up a challenge to lift Chammundi Hill on his shoulder. However during the day of the challenge he asked the crowd to place the hill on his shoulder so that he can carry it, from this story he made an analogy to the audience and the speaker, saying he can inform his thoughts only if the audience complies.

Mr PS Satish then spoke about the difference between Dreams and Goals, by giving a case study of the first person to climb Mt Everest - Tenzing Norgay, He spoke about how Norgay had visualized his destiny

by setting up a goal everyday and achieving the goal by any means, in order to achieve his dream of climbing Mt Everest.

Mr Satish then spoke about how we should sell our skills in order to land a job, by asking the audience to try and sell a pen. He informed that in order to be successful we should recognize the demand in the market and we should couple our interest and develop skills to satisfy the demand. He said it is vital that we learn something from anyone, and embed those desirable qualities in us.

Mr Satish then spoke about the book “Knowing is not the same as Doing” which he authored. He informed that in the book he has provided 52 Rules that one should follow to be successful in any field they're working on. Dr Satish ended the interaction by showing an emotionally touching video about the importance of understanding between loved ones and not getting angry over petty issues

He urged everyone to read 1 chapter every week from his book, as he believed it would help us significantly in our day to day life.

83 students and four faculty attended the talk

Dr. B Ravishankar, Placement Officer addressed the students of 6th semester from all the branches in Electrical Cluster on 14th February about the Additional Skills to be acquired by students to get placed into reputed companies.

He motivated the students to gain skills such as Artificial Intelligence, Machine learning, Deep Learning, Programming Languages, etc that are currently the most sought out topics that companies are looking for.

He guided the students on how to hone and maximise their skills that are crucial in any job interview .He highlighted the importance of confidence and fearlessness during an interview.

He gave a brief introduction on how placements are conducted, the number and type of companies that recruit the students and explained that each company's written test varies based on their requirement.



He encouraged the students to start immediately to get skills in the fields they are interested in. He clarified the doubts of students regarding the company's perspective of what they look for in a candidate.

He mentioned that the college, faculty and placement team is always ready to provide any help the students need to improve their qualities.

Industry trends, Evolution and relevance of Networking

The department of Telecommunication Engineering organized an invited talk from one of the Alumni for the students of sixth semester on 8th march 2018. Our Alumni, Mr. Vinay Rao addressed the students regarding industrial trends, evolution and relevance of Networking.



Vinay Rao holds BE degree in Telecommunication Engineering from BMSCE and MS in Computer Network Engineering from North Carolina State University, USA. He is currently working as a Technical Lead at CISCO. He gave introduction about the topics like Data centers and virtual machines and spoke about the databases that it provides. He briefed about Host mounting on Containers in a given network and its advantages in the field of telecommunication. He also introduced to the students about the disaster management of any equipment or a given network. Finally he briefed about some projects that the students can perform in the field of networking like building a search engine, building a game with multiple hosts etc.

At the end of the day the participants were aware of the industry trends and its relevance in the field of networking. The talk were informative and the outcome of the talk is the project ideas the students can implement in the final year and he gave his concern in helping the students regarding the same.

61 students and two faculty attended the talk

Developing and aligning skills with Technology trends

The department of Telecommunication Engineering, BMSCE has arranged an extension lecture on **Developing and aligning skills with Technology trends** on 8th march 2018, 12.10 pm for 4th semester students. The talk was given by Mr. Suyash Bhat, Design Engineer, Tektronix, Bangalore.



Beginning with, he shared his work experience in Tektronix. He also mentioned that ideas and suggestions of different people are very important in designing by quoting an instance experienced by him during a seminar organized by Tektronix in Taiwan. He also spoke about marketing skills and organization. He suggested to spend more time in watching TED TALKS which helps us to get innovative ideas and know other's ideas which are worth spreading. He suggested in particular to watch talk by Simon Sinek. Simon Sinek has a simple but powerful model for inspirational leadership -- about golden circle in which he states that our career, always function on three levels: What we do, How we do and Why we do it. When all those are aligned it gives us a filter through which we can take necessary decisions. He states "Whenever you embark on a new project, whether in life or business, start with why. That means — focus more on the reason why do you want to do it? Whatever you're trying to do, ask yourself 'Why do I want to do this?'".

He also suggested to make a maximum utilization of the facilities and components available in the college laboratories.

Expectations from companies:

- i) Ability and desire to learn new things on our own.

- ii) Grading is not quite important. Aptitude and Logical reasoning plays an important role during placements.
- iii) Attitude and behavior is quite a lot expected by the companies.

The major 3 areas to be focused on are:

- i) Artificial Intelligence
- ii) Data Analytics
- iii) Machine Learning

All 3 together constitute Technical Skills of a student.

Overview on developing critical and design thinking:

Creative skills and complex problem solving attitude leads to Critical Thinking. Critical thinking refers to a process of thinking which tries to use the basic rules of reasoning in logic in order to evaluate arguments and claims made by people who wish to persuade us.

Design thinking mainly involves observing, understanding, defining and testing.

Paths available after completing under graduation:

He suggested M.Tech and MS(in US) as the main paths and MBA as the last option.

He also mentioned that there are many companies which mainly select women in order to maintain equality i.e. trying to make up the gender ratio.

He concluded his talk stating self-awareness is very important and to connect with more people.

Number of Participants: 60

Coordinators-Dr Rajeshwari Hegde and Dr Prasanna Kumar M K

Mr Nitin Bharadwaj, Associate Consultant at Siemens Healthineers, India

On

Real time Image Processing Applications in Medical Domain

Nitin Bharadwaj is associate consultant at Siemens Healthineers, India. He is responsible for designing and developing optimal and effective solutions for molecular imaging applications (MM oncology), enabling the user to read and quantify scanned data related to oncology and also help in staging and treatment planning for patients. He is mainly involved with CT, PET and MRI imaging modalities. He is an alumnus of the Department of Telecommunication Engineering from BMSCE and graduated from the 2011-2015 batch. The speaker introduced the audience the real world applications of image processing and various noise effecting real world applications and solutions to overcome them. He explained that he mainly deals with the medical imaging sector. He introduced the audience to the various situations where noise is introduced in medical imaging due to patient movement, faulty equipment, scanner head designs, etc. He also highlighted the motive of modern day scanning – to recover the same amount of information with lower doses of radiation. The speaker emphasized the importance of basics in image processing and its implications in the current industry. This expert lecture was coordinated by Dr. C. Gururaj, Asst. Prof., department of Telecommunication, BMSCE.



On 23rd March 2018, the Department of Telecommunication Engineering organised a talk from Planet Education by Mrs Shashirekha M on “**Why does studying abroad matter' understand the importance of the experience and how to leverage the opportunity to ensure you are meeting career goals**”

Mrs Shashi has over 10 years of experience in overseas education industry with expert knowledge in the Australia, UK, USA, Ireland, Germany and Canadian education systems. Having completed her masters degree in commerce and Mrs Shashi has found strong passion in student counselling and never looked back. Her mantra very simple is ‘student centricity’; which has given her much success through awards and recognition not forgetting the strong relationships she continues to nurture with her students globally. Sashi has attended various international conferences- UK, AUSTRALIA etc including her recent visit to Universities Glasgow, Aberdeen Queen Mary University and Strathclyde.

She first gave us a brief about the what planet education is and how they help us with Masters abroad. She shared expert tips to prepare and also told about various countries and the exposure in those countries for telecommunication students and type of Majors we can take up for Masters in different countries. They gave us Tips on finalizing the shortlist of Universities, based on our branch and career objectives, historical peek into universities most suited for engineering students for different branches, application tips as well.

She even spoke about the scholarship opportunities in various universities and how to avail them. The talk went on for 1 Hour and there was few discussions from the students who were interested. It was very helpful for the students who are planning to do their Masters.

Mr. Suresh G Rao, CEO, from Centre of Excellence for Aerospace and Defence addressed the students of 6th semester from Telecommunication branch about the initiative taken by Government of Karnataka to provide high quality training to Engineering students in Aerospace and Defence domain in collaboration with Dassault Systems and Visveswaraya Technological University (VTU).

He mentioned that out of the 1.5 million engineering graduated only 4% to 7% of them were job ready to take up core engineering sectors and that India is presently in need of around 18,000 skilled engineers for it to become self-reliant in defence.



He gave a brief introduction about Digital Communication, types of aircrafts and importance of digital communication in aerospace. The training program conducted consists of a foundation course for one month that covers topics like Aerodynamics, configurations, manufacturing, maintenance, etc and is followed by a three month advanced course on overall [Aircraft Design](#) & Development process, [Structural Engineering](#) and [Equipment Engineering](#).

The students will get industry-specific training, will implement projects and get a chance to work with state of the art lab and infrastructure with software applications.

He spoke about the most recent project initiatives taken in aerospace and defence and their future plans and the increase of Artificial Intelligence employed in aerospace applications.



Mr Suyaash Bhat had introduced himself as the former employee of Tektronix R&D. He spoke on various fields available to us after graduation and how he was able to cope up with the syllabus and course of study during his engineering days. He also encouraged queries on the various trends in the Electronics and the Telecommunication industry. We were also briefed upon the importance and the advantages in the Telecommunication industry.

There was also a very interactive discussion on how to tread in the right path having a Telecommunication domain and achieving certain goals during the course of time. He also recollected his humorous incidents while trying to cope up with the syllabus during his 1st year of engineering.

He emphasized on 'role-hopping' rather than 'job-hopping' and he aims to have an organic farm in his native.

He emphasized on 'role-hopping' rather than 'job-hopping' and he aims to have an organic farm in his native.

Overall there was a positive level of interaction with Mr Suyaash and we all hope to get into the right path of the career as advised by him

Number of Participants: 45

Coordinators-Dr Rajeshwari Hegde and Dr Prasanna Kumar M K

About the Workshop

The workshop was planned by the Department of Telecommunication in association with Upagrah Amateur Radio Club for second and third year students with an intention of inspiring the students to become amateur Hams and apply the theoretical Telecommunication concepts practically. The workshop introduced the students to the requirements and benefits of using a HAM Radio. The later part of the workshop encouraged students to learn to receive and track satellites by using simple software that can be installed easily on any computer.

Prof. B. Kanmani , addressed the students about the HAM Radio and its importance, and spoke about the various initiatives taken by the department to encourage students to take up some projects.

Prof. Rajeshwari Hegde, addressed the students about how knowing about HAM radio is essential for every Telecommunication engineer as it is based on fundamental telecommunication topics.

Prof. Archana K and Prof. Ambika K, co-ordinated the event and motivated the students to form a HAM club to become Amateur radio operators.



The details of topics covered is as under:

Session : 1 Introduction to Amateur HAM Radio

What is a HAM Radio

Who is a HAM Radio operator

Requirements to become an operator

Complete description of clearing exam to become a ham
for License

Categories of Licenses

Equipments needed to receive and transmit signals

Type of language permitted/restricted while communication

Frequency band allowed for transmission

Typical HAM Radio stations

Benefits of becoming a Ham

Famous Ham operators

Session : 2 Space Communication-A Practical Perspective

Classification of Satellites

Comparison of Terrestrial and Satellite Communication

Types of Orbits and their description

Tracking Satellites

Technical Requirements for tracking

Software programs useful for tracking

Advantages of Space communication

Benefits and Applications

Different Countries and the type of orbitals chosen depending on their geographical position

Disadvantages of Space communication

Shri. B.A. Subramani from ISRO addressed the students of 2nd and 3rd year from Telecommunication branch on the steps to become an Amateur HAM Radio operator, its numerous advantages and that it not only is one of the best hobbies any engineer can undertake but can also be a great benefit to the society.

He motivated the students by telling them that by becoming a HAM Radio operator, any student can have a transmitting station at their own homes that operates as a Satellite ground station, and that this is the only hobby in India that requires a licence from the government to pursue it.

The main advantages he highlighted of having a radio that can also transmit are that as telecommunication students they get to practically apply all that they have studied in their curriculum, and that it will make them experts in the field of Telecommunication. He said that the students can also build friendships with many other HAM Radio users across the globe from different countries and interact with them, which gives them plenty of exposure, and they can also directly talk to astronauts too. He mentioned that the biggest benefit was providing help during natural calamities like floods, when telecommunication services are the ones which are first affected. An Amateur HAM Radio operator

based anywhere in India or around the globe can help in communicating the needs between people and rescue operators.

There are also a lot of fun activities that the students can participate in like treasure hunt of transmitters by building receivers, and many others that are held frequently so it is a great way to gain knowledge.

He also spoke about Space communication and the fascinating knowledge one can gain by using software and tracking the position of any satellite in space. The students can view the area of coverage of the satellite as it passes their area. He mentioned the various types of orbits the satellites use depending on the country.

Alumni Interactions

Sl.	Date	Topic/Event	Name & Address of the speaker
1	8th August 2017	Interaction with faculty	Manasa Suresh, Alumni, working for Fidelity.
2	18th August 2017	Interaction with faculty	Kaivalya Hariharan, TE Alumni, currently pursuing Masters in RF & Microwave Engg, at the University of Texas, Dallas
3	19th August 2017	Interaction with faculty	Nitin Bharadwaj, TE Alumni, working for Seimens Healthcare
4	30th August 2017	Interaction with faculty	Sandeep K, TE Alumni, working for Fidelity Investments
5	21st August 2017	visited the college for campus recruitment & Interacted with faculty	Shauri Zanzaney , TE Alumni, working for Delloite
6	9th September 2017	Interaction with faculty	Mr Channaveeresh H, Alumni, Dept of TE, working for Microchip
7	16th September 2017	Interaction with faculty	Mr Manoj Desai, Alumni, Dept of TE, working as Associate Software Engineer, Robert Bosch
8	23rd September 2017	Interaction with faculty	: Mr Nagarjuna M C, Alumni, Dept of TE, working as IT Analyst, TCS
9	8th November 2017	Interaction with faculty	Kiran Kurnool TE Alumni, working as Advertise and Analytics Consultant for Google,India
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8th August 2017: Manasa Suresh, Alumni, Dept. of Telecommunication Engineering, working for Fidelity visited the department.



18th August 2017: Kaivalya Hariharan, TE Alumni, currently pursuing Masters in RF & Microwave Engg, at the University of Texas, Dallas visited the dept.



19th August 2017: Nitin Bharadwaj, TE Alumni, working for Seimens Healthcare visited the department



30th August, 2017: Sandeep K, TE Alumni, working for Fidelity Investments visited the department.



21st August 2017: Shauri Zanzaney , TE Alumni, working for Delloite visited the college for campus recruitment and interacted with the faculty.



9th September 2017: Mr Channaveeresh H, Alumni, Dept of TE, working for Microchip visited the department



16th September 2017: Mr Manoj Desai, Alumni, Dept of TE, working as Associate Software Engineer, Robert Bosch visited the department and interacted with the faculty



23rd September 2017: Mr Nagarjuna M C, Alumni, Dept of TE, working as IT Analyst, TCS visited the department and interacted with faculty



8th November 2017: Kiran Kurnool TE Alumni, working as Advertise and Analytics Consultant for Google, India visited the department.



Faculty as Resource Persons

Sl.	Name of Faculty	Nature of Program	Title of lecture delivered	Date	Venue

Faculty Training Program Participated

Sl. No.	Name of Faculty	Program attended	Date	Venue
1	Rajeshwari Hegde	ISTE FDP on Foundation Program in ICT for Education: FDP101x	3 rd Aug to 7 th Sep, 2017	IIT Bombay, BMSCE
		The CDIO Approach for Engineering Education	30 th Oct, 2017	TEQIP III, BMSCE
		One week FDP on The Gastrointestinal Immune System in HIV infection	18 th Dec to 22 nd Dec, 2017	BMSCE
		MHRD Sponsored Two week GIAN FDP on Shape Anisotropic materials and their applications in Liquid Crystal Displays	19 th Feb to 2 nd Mar, 2018	R & D, BMSCE
		TEQIP - III Sponsored One Week FDP on Building Scalable CISCO Internetworks	4 th Jan to 9 th Jan, 2018	BMSCE
2	P S Gowra	ISTE FDP on Foundation Program in ICT for Education: FDP101x	3 rd Aug to 7 th Sep, 2017	IIT Bombay, BMSCE
		TEQIP - III Sponsored One Week FDP on Building Scalable CISCO Internetworks	4 th Jan to 9 th Jan, 2018	BMSCE
3	M Vasantha Lakshmi	TEQIP - III Sponsored One Week FDP on Building Scalable CISCO Internetworks	4 th Jan to 9 th Jan, 2018	BMSCE
		One week GIAN workshop on Towards Safe Cities: A Mobile and Social Networking Approach	1 st Jun to 6 th Jun, 2018	BMSCE
4	K P Pushpavathi	Two day workshop on Microwave and Antenna Laboratory	29 th Jan to 30 th Jan, 2018	BIT
		TEQIP - III Sponsored One Week FDP on Building Scalable CISCO Internetworks	4 th Jan to 9 th Jan, 2018	BMSCE
		One week GIAN workshop on Towards Safe Cities: A Mobile and Social Networking Approach	1 st Jun to 6 th Jun, 2018	BMSCE

5	T Anushalalitha	Open House Discussion (OHD) on a consultation paper floated by Telecom Regulatory Authority of India (TRAI) on "Net Neutrality"	25 th July, 2017	Radisson Blu Atria Bengaluru
		ISTE FDP on Foundation Program in ICT for Education: FDP101x	3 rd Aug to 7 th Sep, 2017	IIT Bombay, BMSCE
		ISTE FDP on Pedagogy for Online and Blended Teaching-Learning Process: FDP201x	14 th Sep to 12 th Oct, 2017	IIT Bombay and BMSCE
		Design of Embedded Systems with ARM CORTEX M3	16 th Jan to 20 th Jan 2018	BIT, Bangalore
		TEQIP - III Sponsored One Week FDP on Building Scalable CISCO Internetworks	4 th Jan to 9 th Jan, 2018	BMSCE
		One week GIAN workshop on Towards Safe Cities: A Mobile and Social Networking Approach	1 st Jun to 6 th Jun, 2018	BMSCE
6	Manjunatha PS	ISTE FDP on Foundation Program in ICT for Education: FDP101x	3 rd Aug to 7 th Sep, 2017	IIT Bombay, BMSCE
7	Balachandra K	One week FDP on The Gastrointestinal Immune System in HIV infection	18 th Dec to 22 nd Dec, 2017	BMSCE
		Two weeks MHRD sponsored GIAN workshop on Pseudo Spectral Methods for solving system of differential methods	15 th Jan to 25 th Jan, 2018	Maths Department, BMSCE
		One week MHRD sponsored GIAN workshop on Corporate Finance	5 th Feb to 10 th Feb, 2018	MBA, BMSCE
		MHRD Sponsored Two week GIAN FDP on Shape Anisotropic materials and their applications in Liquid Crystal Displays	19 th Feb to 2 nd Mar, 2018	R & D, BMSCE
		TEQIP - III Sponsored One Week FDP on Building Scalable CISCO Internetworks	4 th Jan to 9 th Jan, 2018	BMSCE
		One week GIAN workshop on Towards Safe Cities: A Mobile and Social Networking Approach	1 st Jun to 6 th Jun, 2018	BMSCE
8	C.Gururaj	8 Weeks MOOC course on	20 th Nov, 2017	NPTEL and IIT-

		'Hardware Modelling Using Verilog'		Kharagpur
		MOOC life cycle and Hands on MOOC development	29 th October, 2017	MITE-2017, BMSCE
		The CDIO Approach for Engineering Education	30 th Oct, 2017	TEQIP III, BMSCE
		ISTE FDP on Foundation Program in ICT for Education: FDP101x	3 rd Aug to 7 th Sep, 2017	IIT Bombay, BMSCE
		ISTE FDP on Pedagogy for Online and Blended Teaching-Learning Process: FDP201x	14 th Sep to 12 th Oct, 2017	IIT Bombay and BMSCE
		AICTE Sponsored FDP on Advances in Image Processing and Computer Vision Application Using Python and OpenCV	11 th Dec to 23 rd Dec, 2017	KIT, Tiptur
		TEQIP - III Sponsored One Week FDP on Building Scalable CISCO Internetworks	4 th Jan to 9 th Jan, 2018	BMSCE
		One week GIAN workshop on Towards Safe Cities: A Mobile and Social Networking Approach	1 st Jun to 6 th Jun, 2018	BMSCE
9	Ambika K	ISTE FDP on Foundation Program in ICT for Education: FDP101x	3 rd Aug to 7 th Sep, 2017	IIT Bombay, BMSCE
		ISTE FDP on Pedagogy for Online and Blended Teaching-Learning Process: FDP201x	14 th Sep to 12 th Oct, 2017	IIT Bombay and BMSCE
		TEQIP - III Sponsored One Week FDP on Building Scalable CISCO Internetworks	4 th Jan to 9 th Jan, 2018	BMSCE
10	Shreenivas B	ISTE FDP on Foundation Program in ICT for Education: FDP101x	3 rd Aug to 7 th Sep, 2017	IIT Bombay, BMSCE
		ISTE FDP on Pedagogy for Online and Blended Teaching-Learning	14 th Sep to 12 th Oct, 2017	IIT Bombay and BMSCE

		Process: FDP201x		
		TEQIP - III Sponsored One Week FDP on Building Scalable CISCO Internetworks	4 th Jan to 9 th Jan, 2018	BMSCE
		One week GIAN workshop on Towards Safe Cities: A Mobile and Social Networking Approach	1 st Jun to 6 th Jun, 2018	BMSCE
11	Archana K	ISTE FDP on Foundation Program in ICT for Education: FDP101x	3 rd Aug to 7 th Sep, 2017	IIT Bombay, BMSCE
		ISTE FDP on Pedagogy for Online and Blended Teaching-Learning Process: FDP201x	14 th Sep to 12 th Oct, 2017	IIT Bombay and BMSCE
		Two day workshop on Microwave and Antenna Laboratory	29 th Jan to 30 th Jan, 2018	BIT
		TEQIP - III Sponsored One Week FDP on Building Scalable CISCO Internetworks	4 th Jan to 9 th Jan, 2018	BMSCE
12	Prasanna Kumar MK	8 Weeks MOOC course on 'Digital Speech Processing	November 25, 2017	NPTEL and IIT-Kharagpur
		TEQIP - III Sponsored One Week FDP on Building Scalable CISCO Internetworks	4 th Jan to 9 th Jan, 2018	BMSCE
		One week GIAN workshop on Towards Safe Cities: A Mobile and Social Networking Approach	1 st Jun to 6 th Jun, 2018	BMSCE

**One Week GIAN FDP on, "Towards Safe Cities:A Mobile and Social Networking Approach":
Participation**

Smt.T.Anushalalitha Faculty from Dept. of Telecommunication attended One Week GIAN FDP "Towards Safe Cities:A Mobile and Social Networking Approach" from 1st June to 6th June 2018, at BMS college of Engineering, Bengaluru organised by Department of ECE,BMS college of Engineering, Bangalore.

The sessions were handled by Dr.S.S.Iyengar, Florida International university, USA and

Outcomes of participation in the training:

Learnt about the following:

- IOT architecture for smart city,water management
- Wireless sensors and networking
- Project definition
- Research papers in this domain
- Theorems and conclusions on iSafe-App and similar applications
- Presented Smart Internet -Problem definition
- Assignments
- Learnt about Real Time projects from Bangalore and Abroad

Future Plan

The faculty participants in the above training program, plan to implement the following in near future

- A paper in this area

Participation -Report

T.Anushalalitha, Assistant Professor, Department of Telecommunication, BMSCE attended an Open House Discussion (OHD) on a consultation paper floated by Telecom Regulatory Authority of India (TRAI) on “Net Neutrality” on 25th July 2017 at Radisson Blu Atria Bengaluru. Different stakeholders from the Telecom Industry, Academia contributed suggestions to questions on Regulations and Traffic Management Policies.



Technical Staff Training Program Participated

Sl. No.	Name of Staff	Program attended	Venue	Date
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Faculty Publications: Journal

Sl	Faculty	Journal	DOI/ISSN
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Paper Presentation in Conference

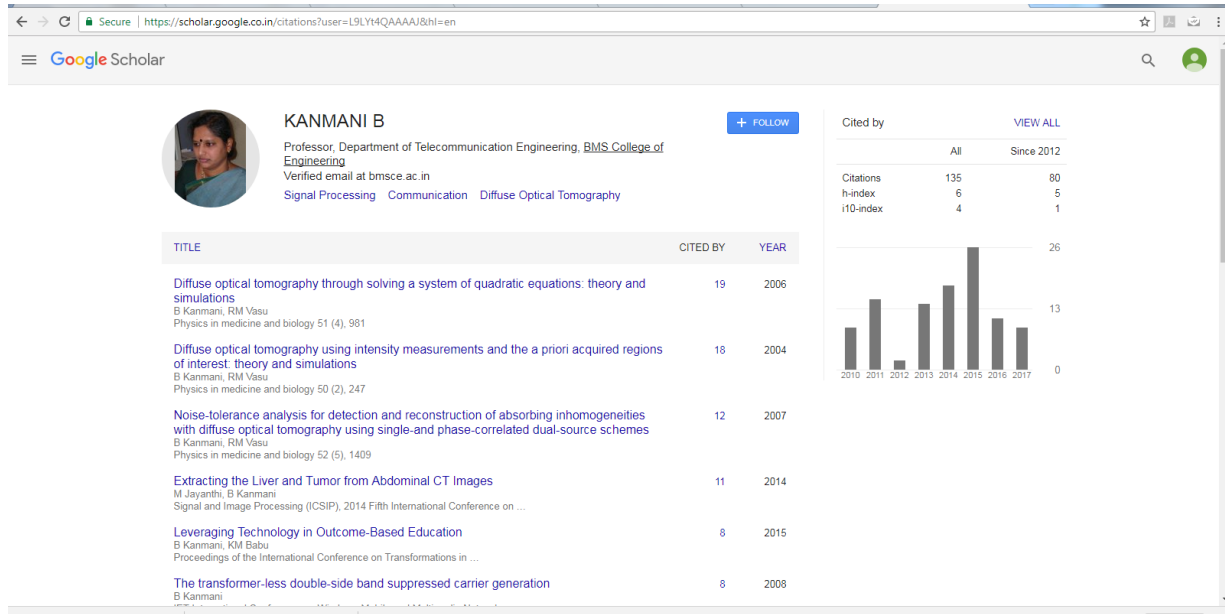
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5	Dr Michaelraj Kingston ROBERTS	14	2
6	B Shreenivas	6	2
7	T Anushalalitha	4	1
8	P S Gowra	2	1
9	Manjunath PS	6	2
10	Pushpavathi K P	1	1

Dr B Kanmani



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Professor, Department of Telecommunication Engineering, BMS College of Engineering
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Signal Processing Communication Diffuse Optical Tomography

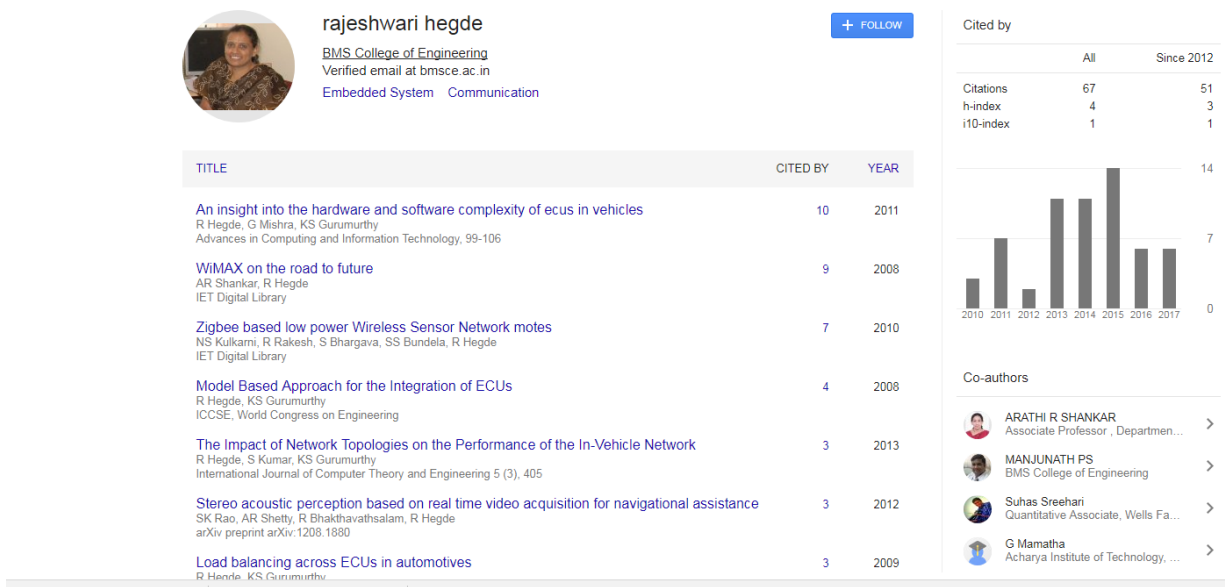
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Dr Rajeshwari Hegde



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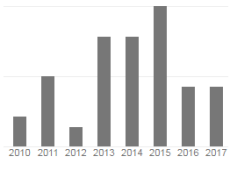
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Embedded System Communication

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Co-authors

- [ARATHI R SHANKAR](#)
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Acharya Institute of Technology, ...

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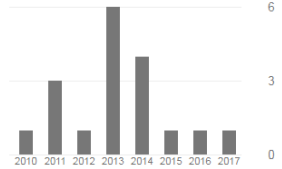
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Signal Processing

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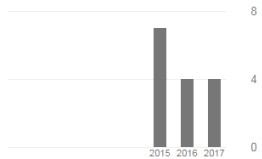
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Image Processing VLSI

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Dr Michaelraj Kingston ROBERTS

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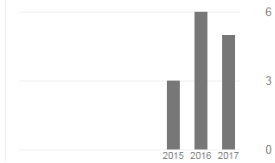
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Error Control Coding Communication Systems Digital Signal processing

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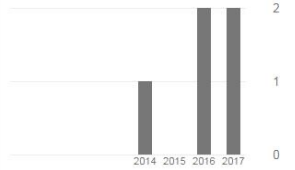
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