

Konnnect 2020_b

Annual Report
July 2019 – June 2020



Department of Telecommunication Engineering
Accredited by NBA for SIX 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)	Participants
1	Matlab On-Boarding session	1 st July, 2019	30
2	TEQIP-III Sponsored, one week Workshop 'Drone Technology'	19 th to 24 th July 2019	50
3	PHASE SHIFT 2019 Deep Learning for Computer Vision	14 th September, 2019	50
4	PHASE SHIFT 2019 Building energy efficient smart homes using Network Analysis	14 th September, 2019	30
5	PHASE SHIFT 2019 Raspberry Pi	14 th to 15 th September, 2019	72
6	Web Developing	16 th October, 2019	30
7	Dhyanotsav program	4 th to 6 th February, 2020	21

MATLAB ON-BOARDING SESSION

1st July, 2019



Participants Statistics

Faculty, Staff and Students: 30

Workshop Brief

The session was handled by representatives from MATHWORKS - Mr Obaid Ullah, Education Customer Success Specialist and Dr Spandhana Gonuguntla, Education Technical Evangelist. During the session the experts from MATHWORKS explained the step to step procedure of installing the MATLAB on college laboratory systems as well as individual systems. The user should be a faculty, staff or student of BMSCE and hold a valid BMSCE email address to make use of the Licensed MATLAB facility. This would also reduce the menace of piracy greatly.

Along with the license MATHWORKS has also provided access to various MATLAB Courses which can give a deeper understanding to faculty and students and the entire set of courses provide close to 92 hours of useful information. Students and faculty have access to these courses and they can study the course at their pace and also receive certificate of completion. Under this license an online version of MATLAB is also made available. This will be running on the MATLAB central server and a 5GB onboard storage facility is provided for each user. This enables to use MATLAB on the go and provides flexibility. An app for android and iPhones with basic features is also made available and users can make optimum use of all these features and facilities to be abreast with the latest technology.

Coordinator: B Kanmani and Balachandra K

TEQIP-III SPONSORED ONE WEEK WORKSHOP ON DRONE TECHNOLOGY

19th to 24th July, 2019



Participants Statistics

Faculty, Staff and Students: 63

Workshop Brief

The Four Day Workshop on “Drone Technology” was conducted by Dept. of EEE & Dept. of E&T in association with F.E.T M J P Rohilkhand University at BMS College of Engineering. The workshop focused on how to make drone using model based design. The expert lectures included the structure of drone, design using Matlab and Simulink, Design aspects with respect to the Embedded system, Rotors, Materials, IMU, Gyro Stabilization etc., The following experts from IIIT Bangalore and Mathworks gave sessions on various topics on drones- Dr. Priya Ranjan Mishra, Manoj Jain, Navneet Bhushan, Amith Kumar Mishra, Dr. Sachit Rao, Mr. Vaibhav Bajaj, Mr. Rajesh K, Ms. Naini, Mr. Rahul Sarwad, Mr. Ayush Pant, Mr. Md. Shuja Humayun and Mr. Mukund Chippalkatti. Discussions on possible usecases were discussed with the students and student’s cameup with ideas on various applications. A demo on design of drones and the software aspects involved was also there. Finally, BMSCE Alumni and students (including TCE students) demonstrated their working models of drones around the campus.

Conveners: B. Kanmani, ETE & P. Meena, EEE

Coordinators: Prof. Balachandra K,TCE; Prof. T Anusha Lalitha, TCE; Dr. Prakash D B, EEE; Dr. Arjun M,EEE; Prof. Atul Sarojwal, EEE, F.E.T M.J.P Rohilkhand University, Bareilly

DEEP LEARNING FOR COMPUTER VISION

(Organized By IEEE Technology and Engineering Management Society in Association with Mathworks)

14th September, 2019



Participants Statistics

Students: 50

Workshop Brief

A workshop on Deep learning for computer vision was jointly organized by IEEE TEMS student Chapter BMSCE and Mathworks during Phase Shift 2019 on 14th September 2019.

In this workshop, participants learned MATLAB workflows for Deep Learning using an image dataset and also learned to use interactive MATLAB apps that make training, testing and visualization smoother and easier. Participants also learned to import pre-trained networks such as AlexNet and use transfer learning approach for image classification problems

Some of the important topics covered in the workshop were

- Introduction to Deep Learning
- Exploring pre-trained networks
- Building a network from scratch
- Transfer Learning

Coordinator: Prasanna Kumar M K

Student Coordinator: Rahul M K

BUILDING ENERGY EFFICIENT SMART HOMES USING NETWORK ANALYSIS

14th September, 2019



Participants Statistics

Students: 30

Workshop Brief

A workshop was conducted by Mr Sambha Murthy where students were taught about the technology related to telecommunication and the networking analysis involved. This was a hands on workshop which involved the learning of how smart homes can be created using 'Cisco packet tracer software'. In the first session the speaker taught the students to build network topologies using IOT. The students learned to connect home appliances using a network hub which could be controlled using a smart phone. This session helped the students learn about how electronics plays a role in building a smart home which consumes less energy and gives out a better output.

The next part of the session involved the building of office networks. The speaker taught about how office networks work and how they can be built. The session involved a lot of wireless communication with the help of networks, which helped the students enhance their knowledge on network analysis. The speaker had also taught about how computer networks work using switches, gateways and topologies which are the roots of networking.

Coordinator: M Vasantha Lakshmi

Student Coordinator: ANUSHA S(1BM17TE010), G SHRIVIDHIYA(1BM17TE017)

RASPBERRY Pi

14th to 15th September, 2019



Participants Statistics

Students: 45

Workshop Brief

The workshop was conducted by Anil B.S (Telecom Alumni). Speaker on first day started with a welcoming speech of the coordinators. Everyone were told to have laptops with the necessary software (PuTTY) installed. 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 Defense, CERN, and Federal Aviation Administration etc. Following these was the introduction of Raspbian which is used as an Operating System for Raspberry Pi. After that participants were allowed to use their laptops for the command session. Commands for directory change, directory creation were taught during the session. Also the nano text editor in the terminal was introduced. They were informed about the sudo rights and few coolest things about Linux Terminal. Later, Anil went on to explain the importance of Python language, built-in libraries of Python and coding using few basic commands such as if, else, elif, for loop, while loop. Towards the end of the first day the participants were given a challenge to SSH into other groups' Raspberry Pi. The participants enjoyed taking the challenge.

Coordinator: K P Pushpavathi and T Anushalalitha

Student Coordinator: Rahul M (1BM17TE043), Varalakshmi K R (1BM17TE059)

WEB DEVELOPING

16th October, 2019



Participants Statistics

Students: 30

Program Brief

Archishman U Zanzanay (1BM18TE010) of Electronics and Telecommunication Engineering has conducted a workshop on Web Developing for 1st semester students under coding club of the department. The outcomes of the workshop are html basics, java basics and web development tools. The workshop is useful in enhancing the coding skills of a student.

Coordinator: Rajeshwari Hegde and Prasanna Kumar M K

DHYANOTSAV PROGRAM

4th to 6th February, 2020

Participants Statistics

Faculty, and Staff: 60

Program Brief

Three day workshop on Heartfulness Relaxation, Meditation, Rejuvenation and Prayer was organized by the department of Electronics and Telecommunication Engineering and Computer Applications. The sessions were handled by trainers from Heartfulness Institute, Dr. Vasantha Kumari, Retired Principal and Mrs. Varalakshmi.

Day1: 4th February 2020- session by Dr N Vasanthakumari. Both theory and practical sessions on relaxation and meditation were covered. Heartfulness Meditation, a simple heart-based meditation practice aimed at attaining a balanced state of mind was explained with a practical session of relaxation and meditation. The session concluded with question and answer.



Day 2: 5th February 2020- Dr N Vasanthakumari covered the theory and practical sessions on rejuvenation. A short video was played to demonstrate the process of cleaning. The session was concluded with a short meditation session and Q & A.



Day 3: 6th February 2020- Mrs. Varalakshmi spoke on human psychology and how it helps to regulate the mind. A practical session of meditation was conducted for 30 minutes. She encouraged all the participants to practice meditation regularly for maintaining good health.

Coordinator: Rajeshwari Hegde, D N Sujatha (Dept. of CA)

Industrial Visits Organized

SNo	Date	Industry	Number of participant
1	19 th November, 2019	All India Radio Campus, Raj Bhavan Road Bengaluru	Students: 54 Faculty and Staff: 5
2	27 th November, 2019	KMF	Students: 52 Faculty and Staff: 7
3	27 th November, 2019	Bangalore Milk Union Limited (BAMUL)	Students: 52 Faculty and Staff: 7
4	27 th November, 2019	BSNL, District Telecom Training Centre, Jayanagar, Bengaluru	Students: 52 Faculty and Staff: 7

Industrial Visit to All India Radio

19th November, 2019



Participants Statistics

5th Semester Students and 5 Faculty & Staff

Program Brief

The outcome of the visit is an opportunity for students to implement a project on DRM and the audio recording of our students.

From the Bangalore campus of AIR at Raj Bhavan road the students were taken to Hoskote campus on the same day which was about 25 kms. AIR All India Radio High Power Transmitters were installed. The staff informed that the transmitters used were analog and gives the students to understand the difference between the analog and digital type of transmitters and receivers and their advantages. This visit will benefit the students to a large extend by relating the concepts they study in their course. The class on the day of the visit was compensated by the respective faculties.

Coordinators: Manjunath P S

Industrial Visit to KMF

27th November, 2019



Participant statistics:

Faculty, Staff, Students:52

Event Brief:

With a view to give a practical exposure about the working of an industrial unit and also enhancing the theoretical knowledge, The Department of Electronics and Telecommunication Engineering organized an industrial field visit to Karnataka Milk Federation (KMF) on 27th November 2019 for the students of third semester. The faculty coordinator for the visit was Prof.Archana K. The Visit enlightened the students on the aspects of procuring, pasteurizing, preserving, packing and distribution of milk and milk products. The visit ended with a Q&A session with the resource person.

Silos is the machinery, which is used to store the raw milk. The capacity of this machine is approximately 8L. Similar type of machines will be used for each and every by-products storage. There is a Pipeline connection where the things get flow from one production department to another. The process involves collection of milk from various sectors of village, town and city. All the collected milk is supplied to BAMUL and testing process is carried out to know the flat, quality of milk. Milk is pasteurized less the 1000c and stored in large tanks. According to requirement milk is used to produce the product like cheddar cheese, butter, ghee and milk powder. After the product produced testing is carried out to know the quality of the product.

Major observations are as follows:

Plants and cold storage unit, All by-products are utilized and treated with well establishment waste treatments, Well quality maintained, Customer satisfaction and quality products are the industry mission, Computerized chamber with major technical employees, The waste water at the last process is used to gardening, Products storage area, Employees co-ordination.

Coordinators: Archana.K

Industrial Visit to Bangalore Milk Union Limited (BAMUL)

19th November, 2019



Participant statistics:

Faculty, Staff, Students: 52

Event Brief:

With a view to give a practical exposure about the working of an industrial unit and also enhancing the theoretical knowledge, The Department of Electronics and Telecommunication Engineering organized an industrial field visit to Bangalore Urban, Rural & Ramanagara District Co-operative Milk producers Societies Union Ltd.,(BAMUL) on 27th November 2019 for the students of third semester. The faculty coordinator for the visit was Prof. Archana K

Students visited the plant with an objective to know the production procedures and to gain the knowledge about the various technical aspects of dairy plant including R&D activities.

Work Station Area includes: Collection of milk from various sectors, testing of milk, Pasteurization of milk, Storage of milk in tanks, producing of milk products such as Cheese, Butter, Ghee, sweets, paneer, milk powder, testing of final product of milk produced and Packing Process.

The Visit enlightened the students on the aspects of procuring, pasteurizing, preserving, packing and distribution of milk and milk products. The visit ended with a Q&A session with the resource person.

Coordinators: Archana.K

Industrial Visit to BSNL

19th November, 2019



Participants Statistics

Faculty and Staff: 6

Students: 52

Program Brief

The III semester students, along with four faculty and staff were taken on an industrial visit to BSNL, District Telecom Training Centre, Jayanagar, Bengaluru on 27th of November 2019. The entire group of 52 members were divided into two separate groups during the visit for better understanding of the working and each group were thought about different modules namely switching, transmission and MDF (Main distribution function). In switching module, students learnt on practical aspects of call making and receiving. They were thought on how to create the calling number and how to check the dial tone. In transmission module, students were briefed about OFC communication and its uses, advantages, applications. The students were shown the real cables and its working procedure. In the MDF module, students learnt about the requirement of main distribution function. They were briefed about line side and exchange side of MDF. The students were shown the functioning parts of distribution unit.

The students were shown the working of the telecommunication switching, and their transmission both wired and wireless. The students were able to practically visualize the main distribution frame, transmission media namely the optical fiber, digital switching system.

Coordinators: P S Gowra

Extension Lectures Organized

SNo	Name of the Invited Scholar with full Address	Title of the Lecture Delivered	Date of Lecture
1	Obaid Ullah, EDU-Customer Service Manager, Mathworks and Spandana, Technical Evangelist, Mathworks	Matlab On-Boarding	1/7/2019
2	Mahesh Hegde, Program Manager, Robert Bosch India Pvt. Ltd	Technology Trends in 2019 and Beyond	3/8/2019
3	Anmol Agrawal (1BM16TE008)	Basics of Python	23/09/2019
4	Mr Aravind Kamath, Principal Consultant, Robert Bosch Engineering and Business Solutions	Electromagnetic Interference and Electromagnetic Compatibility (EMI/EMC): What we really do in the Industry as RF Engineers?	14/10/2019
5	Indian Cancer Society and Oracle Volunteers from Oracle India Pvt. Ltd	The Power of Pink – Be Aware, Be Alert	19/10/2019
6	Dr K R Sudhindra, Associate Professor, Department of Electronics & Communication Engineering, BMSCE	Understanding Mobile Communication-A Practical Approach	22/11/2019
7	Ravishankr Shiroor, counder, Stellapps Technologies.	Sensors and its Applications in Agriculture	29/02/2020
8	Sanjay Sehgal, Chairman and CEO, MSys group, Atlanta, USA	How to build positive Attitude and positive state of mind	05/06/2020
9	Sanjay Sehgal, Chairman and CEO, MSys group, Atlanta, USA	The World does spin, but not around YOU!	19/06/2020

Matlab On-Boarding

By Mr Obaid Ullah, EDU-Customer Service Manager, Mathworks
and Spandana, Technical Evangelist, Mathworks

1st July, 2019



Participants Statistics

Faculty, Staff and Students: 30

Program Brief

An introductory interactive session to familiarize the faculty and students with the installation procedure of MATLAB was organized by the department of Telecommunication Engineering, BMSCE. The session was intended to clear the lingering doubts about the installation of MATLAB for college laboratory and classroom systems, individual/personal laptops and computers of students and staff of BMSCE. The session was primarily organized to make the BMSCE community aware of the campus wide MATLAB license procured by the college and encourage BMSCE student and faculty community to make optimum use of the MATLAB software for research, courses and projects.

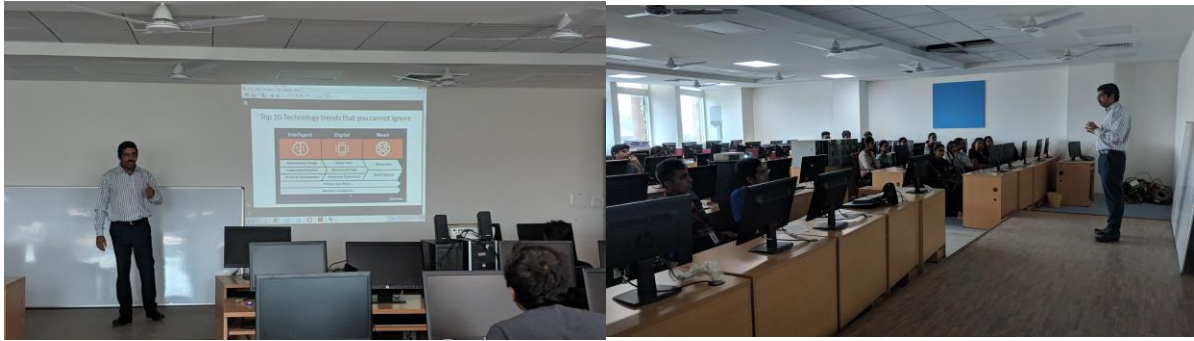
The session was handled by representatives from MATHWORKS - Mr Obaid Ullah, Education Customer Success Specialist and Dr Spandhana Gonuguntla, Education Technical Evangelist. During the session the experts from MATHWORKS explained the step to step procedure of installing the MATLAB on college laboratory systems as well as individual systems. The user should be a faculty, staff or student of BMSCE and hold a valid BMSCE email address to make use of the Licensed MATLAB facility. This would also reduce the menace of piracy greatly.

Coordinators: Balachandra K

Technology Trends in 2019 and Beyond

By Mr Mahesh Hegde, Program Manager, Robert Bosch India Pvt. Ltd

3rd August, 2019



Participants Statistics

Faculty: 01, Students: 45

Program Brief

The session was started off by the introduction to Robert Bosch and the amount of Electronic components used in today's car compared to the old ones where more of mechanical components were used.

He also highlighted that the students must acquire additional skills in addition to maintaining good CGPA. He then briefed about the top technological trends in 2019 and beyond and how the students must gear up to face the challenges of the industries. The session ended with Q & A session

Outcomes:

1. Students got to know about the challenges to be faced to get good placement.
2. Could identify their domain of interest

Coordinators: Rajeshwari Hegde

Basics of Python

By Mr Agrawal (1BM16TE008)

23rd September, 2019



Participants Statistics

Faculty, Staff and Students: 47

Program Brief

Dept. of Electronics and Telecommunication has conducted a programming session on Basics of Python under coding club. The session was taken by Anmol Agrawal (1BM16TE008) of 7th sem and attended by 45 students of first semester including EC, ET, CS and IS branches. The session was mentored by Dr. Rajeshwari Hegde and Dr. Prasanna Kumar MK. The outcomes of the workshop are fundamentals of python programming, data containers, functions, lambda functions, python packages which helps in overall improvement of students coding skills.

Coordinators: Rajeshwari Hegde and Prasanna Kumar M K

Electromagnetic Interference and Electromagnetic Compatibility (EMI/EMC): What we really do in the Industry as RF Engineers?

By Mr Aravind Kamath, Principal Consultant, Rober Bosch Engineering and Business Solutions

14th October, 2019



Participants Statistics

58 Students

Program Brief

The lecture started with a brief introduction to the speaker and his experience. He briefed about the role of RF engineers in industry. The session helped students to know how to find the EMC standards that apply to the product, what the emissions and immunity tests are that you'll need to pass, how to prepare for testing, how to find good EMC test labs, typical pricing and much more.

EMC (Electro Magnetic Compatibility) testing exists to ensure that your electronic or electrical device doesn't emit a large amount of electromagnetic interference (known as radiated and conducted emissions) and that your device continues to function as intended in the presence of several electromagnetic phenomena. The detail process of preparation and what should be thinking about in terms of EMC design and pre-compliance testing was considered. The importance of EMI/EMC test from Manufacturers of commercial, residential, and industrial electrical and electronic systems have to work to reduce electromagnetic interference (EMI) so that the service life of a device can be extended without too many EMI-induced problems. Session is concluded with questions and answers.

Coordinators: Archana K

The Power of Pink – Be Aware, Be Alert

By Mrs. Dr Jayanti Tumsi,

Consultant Breast Surgeon, Oncology Department, Sparsh Hospitals

19th October, 2019



Participants Statistics

Faculty, Staff and students-80

Program Brief

I Pink I Can! Fight the Fight, Find the Cure.

As October being the Breast Cancer Awareness Month (1 Oct 2019 TO 31 Oct 2019), BMS College of Engineering, Indian Cancer Society and Oracle Volunteers Organized a Program on Breast Cancer Awareness.

A huge number of staffs from the telecommunication engineering and other departments gathered for this event by 10:30am at the Auditorium-2.

For this event we had invited Dr. Jayanti Tumsi as our honorable chief guest who is a Consultant Breast Surgeon, Oncology Department from Sparsh Hospital.

We began the program at 10:30 am with the welcome speech given by Dr. Rajeshwari Hegde who was the faculty in-charge and M Komala who was student coordinator and MC for the day. Followed by the introduction of the stars of the day,

Our honorable chief guest Dr. Jayanti Tumsi also gave her stupendous speech and also enlightened the gathering with her valuable inputs. She also made us understand 'The Power of Pink – Be Aware, Be Alert'. "Got Pink? Get Your Pink On." following this quote we had ended the program with a Human Chain and also showed the power of women because knowing it exists is not enough. After the Human Chain we assembled for having light snacks and refreshments along with distribution of certificates provided Indian Cancer Society (ICS) and Oracle volunteering.

And finally BMSCE once again made this event as one of the successful events of 2019.

Coordinators: Rajeshwari Hegde and Manjunath P S

Understanding Mobile Communication-A Practical Approach

By Dr K R Sudhindra, Associate Professor, Department of Electronics & Communication Engineering, BMSCE

22nd November, 2019



Participants Statistics

Faculty, and students: 45

Program Brief

An invited talk on “Understanding Mobile Communication-A Practical Approach” was organized for the students of 7th semester students to understand the practical aspects of mobile communication by Dr. K R Sudheendra, Associate Professor, Department of Electronics and Communication Engineering, BMS College of Engineering, Bangalore who has about 19 Years of total Experience in the field of Electronics & Telecommunications with around 7 years in GSM BSS, GPRS, EDGE CDMA, WCDMA, LTE and RF. The session started with the architecture of GSM, its subsystems, Mobile Switching center and its location etc. The speaker continued the sessions by explaining the channel allocation in GSM, Distance between the base stations, call flow in GSM, spectrum auction by Government to different service providers. The session concluded with Q & A and vote of thanks by Dr. Rajeshwari Hegde

Coordinators: Rajeshwari Hegde, P S Gowra

Sensors and its Applications in Food and Agriculture Sector **By Mr. Ravishankar Shiroor, Cofounder, Stellapps Technologies,** **Bangalore**

29th February, 2020



Participants Statistics

Faculty: 02, Students: 35

Program Brief

The session was started off by the introduction to Stellapps Technologies and what are the major research works that are being carried out at Stellapps.

The talk started off with how much food is wasted each year and the different kinds of losses. Through several paths, 70% of the total food meant for consumption is lost every year in India, which is an astoundingly large percentage.

To help minimize the food wastage, sensors and big data analytics are being employed in the food and agriculture sector.

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.

Outcomes:

1. Students got to know about various sensors and its use in food and agriculture industries
2. Activates to be carried out with the help of Stellapps Technologies

Coordinators: Rajeshwari Hegde

How to build positive Attitude and positive state of mind

By Mr. Sanjay Sehgal, Chairman and CEO, MSys group, Atlanta,
USA

5th June, 2020



Participants Statistics

Faculty, staff and Students: 1400

Program Brief

The IEEE Student Branch of BMSCE in association with the IEEE Student Branch of Nagarjuna College of Engineering organized an online guest lecture by Mr. Sanjay Sehgal on 5th June 2020. He is a multi-faceted person donning several hats – a Technology Entrepreneur, Global Businessman, Startup Advisor, Keynote Speaker, Philanthropist, Heartful Human, a meditation instructor and a self-development enthusiast who has taught meditation techniques to thousands of people as a part of his own self-development journey. He started the webinar by conducting a small survey on the stress level of people before the webinar and how they felt before the webinar (happy, sad, anxious etc.). He started with the webinar by talking about how to maintain a positive state of mind in the current tough situations. He then explained the importance of meditation and about calmness that one experiences after meditating. He also spoke about how the posture of the body can affect the concentration on the subject and shared his own experiences. The webinar then moved forward to the Q&A session, in which the audience asked their questions through the Live Chat on You tube Live and Mr. Sehgal answered questions on almost all topics, ranging from problems in the corporate work life to the problems of the teenagers.

The session then ended with the same survey that was conducted in the beginning, but this time, the results showed that the attendees felt much happier. The Vote of Thanks was given by Dr. Mamatha G. from Nagarjuna College of Engineering.

Coordinators: Rajeshwari Hegde, BMSCE, Mamatha G, NCE

The World does spin, but not around YOU!

By Mr. Sanjay Sehgal, Chairman and CEO, M Sys group, Atlanta, USA

19th June, 2020



Participants Statistics

Faculty, students: 1500

Program Brief

The webinar was on moving from self-centeredness to centring the self. All of us have some kind of self-centeredness which can create health problems. 75% of sick people are psychosomatic.

Ex. If I think too much about myself thinking negatively about myself why did they tell etc makes impact on our mind leading to anxiety and depression? Self-centeredness makes that you are more important than others. Self-absorption technique is a sign of self-centeredness. It makes you think that these are more important than others. What you have done is more important than what others have done. Mr Sehgal gave an overview about the self-centeredness and how to overcome it through meditation. You have to compete with yourself and not with others which would help us to come out of it. To rise above self-centeredness, centre yourself to expand to entire universe. Meditation is one way to create or rise above self-centeredness. Being part of a community, finding a centre to associate with others. Loneliness is the biggest cause of self-centeredness. Finding the centre and expand yourself. Instead of looking for job satisfaction do your job satisfactorily. Thinking more about yourself is a clear indicator of self-centeredness. The session concluded with question and answer session.

Coordinators: Rajeshwari Hegde and C Gururaj

Faculty as Resource Persons

Sl.	Name of Faculty	Nature of Program	Title Program	Date	Venue
1	Dr B. Kanmani	Workshop	TEQIP-III sponsored one day workshop on 'Outcomes Based Education	8th July , 2019	Sri Jayachamarajendra College of Engineering, JSS Science & Technology University, Mysore.
		FDP	one week VTU sponsored FDP under TEQIP-1.3 Implementation of Outcomes Based Education in Higher Educational Institutions	11th July , 2019	Siddaganga Institute of Technology, Tumkur
		Workshop	OBE and NBA Accreditation Process	16th July, 2019	Deaprtment of Mechanical Engineering, held at SJBIT, Bengaluru.
		pre-conference symposium of NATCON-2019 on 'Skills & Entrepreneurship for global competitiveness'	Improving Ranking and Accreditation	16th August, 2019	RV Institute of Management, Jayanagar, Bangalore.
		Workshop	Evolving Course Objectives, Course Outcomes and Question Paper Setting Methods	21st September , 2019	IQAC of JSS Law College, Mysore
		Workshop	AICTE-Mardharshan funded FDP on 'Outcome Based Education (OBE) Implementation towards Accreditation',	12th December, 2019	Kalasalingam Academy of Research and Education, (Deemed to be University), Krishnakoil, Srivilliputtur, Madurai - Tamil Nadu

1	Dr B. Kanmani	Workshop	Understanding the NBA SAR', and 'Assessments and Continous Improvement	7th January, 2020	IQAC of CMR Institute of Tecnology, Bengalurur-560037.
		Workshop	one week two day worshop on 'Outcome Based Education and its effective implementation under Autonomy'	24th January, 2020	Vidyavardhaka College of Engineering Mysore
		Workshop	One week Faculty Development Program on "Outcome Based Education & Accreditation	29th January, 2020	Mechanical Engineering department and Sponsored by the ISTE-BMSCE Chapter
		Workshop	VTU TEQIP 1.3 Sponsored One week Faculty Development Program on "Outcome Based Education & NBA Accreditation"	30th January, 2020	New Horizon College of Engineering, Bengaluru
		One week online Faculty Development Program on, 'Fostering Outcome based Engineering Education towards Institutional Accreditation	Defining Course Outcomes to map Program Outcomes' and 'Defining Assessments to map Course Outcomes: online/written examinations	16th June, 2020	Kalasalingam Academy of Research and Education (KARE), Srivilliputtur, Tamil Nadu

2	Prof. Pushpavathi K.P	FDP	State of the Art in RF and Wireless Communication Design”	2nd August, 2019	Deaprtment of Electronics and Telecommunic ation, BMSCE
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3	Dr C. Gururaj	IQAC Adjudicating member and Mock NBA Audit	Invited as IQAC Adjudicating member for internal quality assurance and Mock NBA audit	22nd September2 019	Dept. of Electronics & Telecommunic ation, BIT
		4th IEEE International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques	Session chair	13th and 14th Dec 2019	GSSS Institute of Engineering For Women, Mysuru

Faculty Training Program Participated

Sl. No.	Name of Faculty	Program attended	Date	Venue
1	Dr.B. Kanmani	CDIO workshop	27 th to 28 th February, 2020	BMSCE
2		Enhancement of Curriculum through CDIO	24 th -25 th June 2020	BMSCE
1	Dr Rajeshwari Hegde	MOOC course on “Op-amp Practical Applications: Design, Simulation and Implementation	Jul – Oct 2019 29 th November, 2019	IISc Bangalore
2		Two week course on Digital Transformation in Teaching Learning Process organized by TEQIP in association with IIT, Bombay	April , 2020	Online
3		FDP on MOODLE organized by Tagore Institute of Engineering and Technology in association with IIT, Bombay	4 th – 9 th May , 2020	Online
4		Wireless Communication for everybody	27 th May, 2020	Coursera
5		12 Weeks NPTEL course on Microprocessors and Microcontrollers	Jan-Apr 2020 20 th June 2020	SWAYAM
6		4 week course on AI	25 th June 2020	Coursera

1	Dr. N. Srinivasa Rao	TEQIP-III Sponsored Two weeks Faculty Development Programme on Mechatronics and Artificial Intelligence	29 th July to 10 th August, 2019	BMSCE
2		Data science math skills	May, 2020	Coursera
3		FPGA computing system	May, 2020	Coursera
4		Two day FDP on “Open source tools & softwares for online teaching	8 th - 9 th June, 2020	RISE Krishna Sai Prakasam Group of Institutions
5		Two-day International Virtual FDP on “Innovative Techniques for Effective Teaching Online and Offline	12 th - 13 th June 2020	MGIT, Hyderabad
6		12 Weeks NPTEL course on Control Engineering (IIT Madras)	Jan-Apr 2020 20 June 2020	SWAYAM

1	Prof P S Gowra	MOOC course on “Op-amp Practical Applications: Design, Simulation and Implementation	Jul – Oct 2019 29 th November, 2019	IISc Bangalore
2		Faculty Awareness Program on NBA and NAAC" organized by IQAC, GMIT, Davanagere.	22 nd May, 2020	Online
3		Faculty Awareness Program on NBA and NAAC" conducted by Dr.AIT, Bangalore	22 nd May, 2020	Online
4		How to build a positive attitude and positive state of mind	5 th June, 2020	Msys Technologies, USA
5		1 week short time training program on Protecting against pandemic –holistic approach towards health	8 th - 13 th June, 2020	BMSCE, Bangalore
6		12 Weeks NPTEL course on Op-Amps and Applications	Jan-Apr 2020 20 th June, 2020	SWAYAM

1	Prof. Pushpavathi K.P	TEQIP –III sponsored one week FDP on “State of the Art in RF and Wireless Communication Design	2 nd August, 2019	BMSCE, Bengaluru
2		1 week short time training program on Protecting against pandemic –holistic approach towards health	8 th - 13 th June, 2020	BMSCE, Bengaluru
3		12 Weeks NPTEL course on Computer Networks and Internet Protocol	Jan-Apr, 2020 20 th June, 2020	SWAYAM
4		Webinar on Enhancement of Curriculum through CDIO	24 th – 25 th June, 2020	BMSCE, Bengaluru
5		4 week course on AI	29 th May – 30 th June, 2020	Coursera

1	Prof. M. Vasantha Lakshmi	MOOC course on “Principles of communication systems- Part II	Aug- Oct, 2019 16 th November, 2019	IIT Kanpur
2		12 Weeks NPTEL course on Computer Networks and Internet Protocol	Jan-Apr, 2020 20 th June, 2020	SWAYAM
3		Webinar on Enhancement of Curriculum through CDIO	24 th - 25 th June, 2020	BMSCE, Bengaluru

1	Prof. T.Anushalalitha	TEQIP-III Sponsored Two weeks Faculty Development Programme on Mechatronics and Artificial Intelligence	29 th July - 10 th August, 2019	BMSCE, Bengaluru
2		Relevance of IEEE Standards in Teaching, Learning and Industry Collaborations	04 th June, 2020	EBSCO information service
3		Webinar on Enhancement of Curriculum through CDIO	24 th - 25 th June, 2020	BMSCE, Bengaluru
1	Dr. Manjunath PS	TEQIP-III Sponsored Two weeks Faculty Development Programme on Mechatronics and Artificial Intelligence	29 th July - 10 th August, 2019	BMSCE, Bengaluru
1	Dr. Balachandra K	Digital Signal Processing	26 th November - 27 th December, 2019	Coursera
2		Machine Learning	28 th Jan - 29 th Feb, 2020	Coursera
3		Python basics	5 th April - 4 th May, 2020	Coursera
4		Python classes and inheritance	6 th April - 5 th May, 2020	Coursera
5		Data collection and processing with Python	6 th April - 5 th May, 2020	Coursera
6		Python functions and files	7 th April - 6 th May, 2020	Coursera
7		5 days online workshop on design of power electronic converters	11 th - 15 th May, 2020	BMSCE, Bengaluru
8		Python programming	18 th April - 19 th May, 2020	Coursera

1	Dr Gururaj	AICTE Sponsored Two Weeks FDP on 'Machine Learning, Artificial Intelligence in Image Processing using Matlab and Xilinx system generator for DSP	22 nd July – 3 rd August, 2019	KIT, Tiptur
2		12 Week NPTEL SWAYAM MOOC course on “Switching Circuits and Logic Design”	Jul – Oct 2019 30 th November, 2019	IIT Kharagpur
3		8 Week NPTEL SWAYAM MOOC course on “Accreditation and Outcome Based learning	Aug – Oct, 2019	IIT Kharagpur
4		ISTE sponsored one week workshop on OBE and Accreditation	27 th to 31 st January, 2020	BMSCE
5		CDIO workshop	27 th to 28 th February, 2020	BMSCE
6		1 Week AICTE Training and Learning Academy (ATAL) FDP on Artificial Intelligence organized by NIT, Nagpur.	26 th Mar – 1 st April, 2020	Online
7		One Week AICTE Training and Learning Academy (ATAL) FDP on Cyber Security organized by NIT, Warangal.	18 th – 22 nd May, 2020	Online

8	Dr Gururaj	1 week E-Symposium on Global Pandemic Outbreak: Role of Technology & Automation	1 st - 5 th June, 2020	JSSATE, Noida
9		AICTE sponsored 1 week FDP on NBA and NAAC accreditation process	4 th - 8 th June, 2020	MSRIT, Bangalore
10		1 week short time training program on Protecting against pandemic –holistic approach towards health	8 th - 13 th June, 2020	BMSCE
11		FDP on Telemedicine, IOT and Nano Science	10 th - 12 th June, 2020	GSSS Institute of Engineering and Technology for Women, Mysuru
12		AICTE sponsored 1 week FDP on Big Data Management	15 th - 19 th June, 2020	MSRIT, Bangalore
13		12 Weeks NPTEL course on NBA Accreditation and Teaching – Learning in Engineering offered by IISc	Jan – Apr, 2020 20 th June, 2020	SWAYAM

14	Dr Gururaj	1 week FDP on Effective Usages of Educational Technology in Teaching-Learning Process as a Part of NBA Accreditation	22 nd – 26 th June, 2020	MSRIT, Bangalore
15		Webinar on Enhancement of Curriculum through CDIO	24 th – 25 th June, 2020	BMSCE
16		Webinar on Satellite Image Processing: Feature Extraction	27 th June, 2020	Bangalore Technological Institute, Bengaluru
1	Prof. Ambika K	TEQIP -III Sponsored One week Faculty Development Programme on Communication Networks and Security	30 th July to 3 rd August 2019	BMSCE
2		ISTE sponsored one week workshop on OBE and Accreditation	27 th to 31 st January, 2020	BMSCE
3		NBA and OBE	3 rd June, 2020	S.J.C. institute of Technology, Chickballapur
4		12 Weeks NPTEL course on Deep Learning-part1(IIT Ropar)	Jan-Apr 2020 20 th June, 2020	SWAYAM

1	Prof. Shreenivas B	TEQIP -III Sponsored One weeks Faculty Development Programme on Communication Networks and Security	30 th July - 3 rd August, 2019	BMSCE
2		8 Week NPTEL SWAYAM MOOC course on “Introductions to Operating System”	Jul- Sep, 2019	IIT Madras
3		12 Week NPTEL SWAYAM MOOC course on “Introductions to Internet of Things”	Jul – Oct, 2019	IIT Kharagpur
4		AICTE sponsored 1 week FDP on NBA and NAAC accreditation process	4 th - 8 th June, 2020	MSRIT, Bangalore
5		1 week short time training program on Protecting against pandemic –holistic approach towards health	8 th - 13 th June, 2020	BMSCE, Bangalore
6		AICTE sponsored 1 week FDP on Big Data Management	15 th – 19 th June, 2020	MSRIT, Bangalore
7		1 week FDP on Effective Usages of Educational Technology in Teaching-Learning Process as a Part of NBA Accreditation	22 nd – 26 th June, 2020	MSRIT, Bangalore

1	Dr. Prasanna Kumar MK	TEQIP-III Sponsored One weeks Faculty Development Programme on Communication Networks and Security	30 th July - 3 rd August 2019	BMSCE
2		ARM processors	24 th - 25 th January, 2020	Alvas Institute of Engineering and Technology, Moddbidri
3		1 week FDP on Overview of AI and its applications in speech processing	1 st - 5 th June, 2020	Chebrolu Engineering College, Guntur, AP (Online)
4		1 week FDP on Artificial Intelligence and Machine Learning,	3 th - 7 th June, 2020	RISE Krishna group of institutions, Ongole, AP
5		AICTE sponsored 1 week FDP on NBA and NAAC accreditation process	4 th - 8 th June, 2020	MSRIT, Bangalore
6		1 week short time training program on Protecting against pandemic –holistic approach towards health	8 th - 13 th June, 2020	BMSCE, Bangalore
7		15 days FDP on Cloud Computing	10 th – 30 th June, 2020	KGiSL Institute of Technology
8		AICTE sponsored 1 week FDP on Big Data Management	15 th – 19 th June, 2020	MSRIT, Bangalore

9	Dr. Prasanna Kumar MK	12 Weeks NPTEL course on Signals and Systems (IISER, Bhopal)	Jan – Apr, 2020 20 th June, 2020	SWAYAM
10		8 Weeks NPTEL course on Discrete Time Signal Processing (IIT, Kharagpur)	Jan-Apr, 2020 20 th June, 2020	SWAYAM
11		1 week FDP on Effective Usages of Educational Technology in Teaching-Learning Process as a Part of NBA Accreditation	22 nd - 26 th June, 2020	MSRIT, Bangalore
12		one week FDP on research workshop	25 th - 29 th June, 2020	BELL institute of research and development studies (BIRDS) , Kochi
1	Prof. Archana K	ISTE sponsored one week workshop on OBE and Accreditation	27 th - 31 st January, 2020	BMSCE
2		NBA and OBE	3 rd June, 2020	S.J.C. institute of Technology, Chickballapur
3		12 Weeks NPTEL course on Deep Learning-part1(IIT Ropar)	Jan-Apr 2020 20 th June, 2020	SWAYAM

Faculty Publications

1. **Rajeshwari Hegde**, “The effect of Heartfulness Meditation on Human Consciousness “international conference on Elevating Consciousness through Meditation for Global Harmony, IIMB, Bangalore, 2nd August 2019.
2. Kathavate A.R., Priya B., **Hegde R.**, Kumar S. (2020) Different Aspects of 5G Wireless Network: An Overview. In: Haldorai A., Ramu A., Mohanram S., Onn C. (eds) EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing. EAI/Springer Innovations in Communication and Computing. Springer, Cham, pp 97-108, 19 October 2019 **(Scopus Indexed)**
3. **Vasanth Lakshmi, B. Kanmani**, “ Lossy source coding method for PAPR reduction in BPSK OFDM, International journal of new innovations in engineering and technology, Volume 12, issue 3, December 2019
4. Bhanu Priya, Amulya Nimmagadda, Riya Sri, Krishnai Garudkar, **C.Gururaj**, “Reservation Based Parking Systems using OCR and WSN”, 1st International Conference on Intelligent Computing and Smart Communication Technologies (ICSCT-2019), Springer Lecture notes on Data Engineering and Communication Technologies, ISBN: 978-93-5382-460-0, 26-27 July 2019, pp 17 (abstract), Anurag Group of Institutions, Hyderabad
5. **Pushpavathi KP**, “Studies on carrier aggregation in LTE Advanced”, International journal of new innovation in engineering and technology, volume 13, issue 1, February 2020. ISSN: 2319-6319
6. **Balachandra Kumaraswamy**, Poonacha, P.G, “Recognizing ragas of Carnatic genre using advanced intelligence: a classification system for Indian music “ , Data Technologies and Applications Emerald Publishing Limited, MAY 2020, DOI 10.1108/DTA-04-2019-0055, 19TH MAY 2020 **SCI Q2**
7. Harish H. Kenchannavar, Shrivatsa D. Perur, U. P. Kulkarni, **Rajeshwari Hegde** “Statistical Analysis of Stress Levels in Students Pursuing Professional Courses”, 4th International Conference on Information and Communication Technology for Intelligent Systems, 15th-16th May 2020, Ahmedabad, India (Online)
8. **Archana K**, “Different Spectrum sensing techniques in Cognitive Radio Environment”, International Journal of innovative Technology and Exploring Engineering (IJITEE),ISSN:2278-3075,volume 9, issue 8, June 2020
9. Ramachandra Ballari, **Rajeshwari Hegde**, “Reconfigured SDR for Wireless Communication with Reduced Power Consumption and High Throughput “, International Journal of Advanced Science and Technology Vol. 29, No. 08, (2020), pp. 1921- 1925, June 2020

10. Veena Nayak, Sushma P.Holla, AkshayaKumar K. M., **C. Gururaj**, “Automatic number plate recognition”, International Journal of Advanced Trends in Computer Science and Engineering, Vol. 9, No. 3, pp 3783 – 3787, ISSN 2278-3091, june 2020, DOI: 10.30534/ijatcse/2020/195932020 (Scopus)
11. Sameer V.Kulkarni, Shashang M., Shriya Umesh, **C. Gururaj**, “Attendance Marking System using Facial Recognition”, International Journal of Advanced Trends in Computer Science and Engineering, Vol. 9, No. 3, pp 3588 – 3594, ISSN 2278-3091, June 2020, DOI: 10.30534/ijatcse/2020/166932020. (Scopus)