



B.M.S COLLEGE OF ENGG, B'LORE-19

[Autonomous Institute under VTU, Affiliated to VTU]

DEPT. OF ELECTRONICS AND COMMUNICTAION ENGINEERING



ACTIVITY REPORT

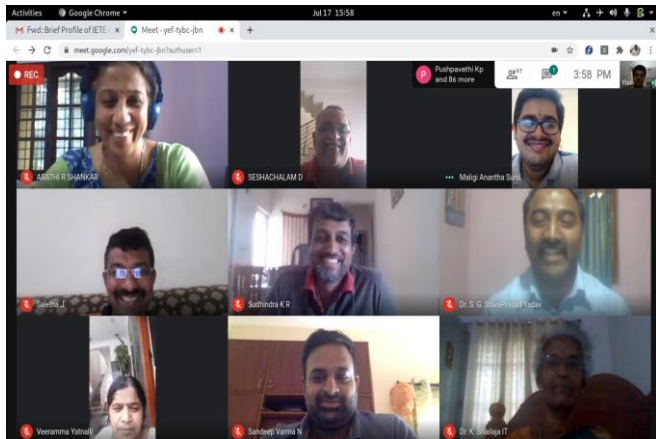
JULY 2020 –JUNE 2021



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06/07/2020-17/07/2020: Department of Electronics and Communication Engineering in association with the Institution of Electronics and Telecommunication Engineers (IETE, Bangalore Centre) organized a two-week online FDP on "Applied Data Science". A total of 124 faculties of various engineering colleges and few polytechnic colleges participated in the programme. A total of twelve resource persons, 3 from IISc., 1 from IIT Dharwad, 1 from IIIT Delhi, 2 from Nokia Networks, 2 from Samsung Research, 1 from Tiger Analytics and one person involved with a start-up, delivered expert lectures during the programme using the Google Meet platform. The participants were from various engineering disciplines such as Electronics & Communication, Computer Science, Electronics & Instrumentation, Medical Electronics and few from Mechanical Engineering. E-certificate was provided to the participants who attended the programme. Event was Co-ordinated by Dr. M. Anantha Sunil, and Dr. Rajath Vasudevamurthy, Asst. Professors.



08/07/2020: Dr. Suma. M.N, Professor, successfully completed all the requirements for completion of the programme and has earned an Excellent grade in "Machine Learning for Computer Vision" jointly organized by Electronics and ICT Academies during June 29 - July 8, 2020 under the "Scheme of financial assistance for setting up of Electronics and ICT Academies" of the Ministry of Electronics and Information Technology (MeitY), Government of India.

18/07/2020: ECE- 6th semester students viz., Yashas H.S-1BM17EC129, Varun Kumar-1BM17EC120, Akash Jawahar-1BM17EC004, Sanjay-1BM17EC094, secured 1st place in the National Level E-Yantra Robotics Competition organized by IIT-Bombay. BMSCE Team has been participating from 2014(6 years) and won the prize for 5 years (WON 1st PRIZE IN SUPPLY BOT (SB) TRACK) The total no.of teams participated from BMSCE: 30+, First-round qualified teams: 20+, Second round qualified teams: 3, Final round qualified teams: 1, Winning team: 1. Two students also got internship: Yashas H S and Varun T P. Mr. Harish V mekali, Assistant Professor, is the facilitator and mentor for the team.

20/07/2020: Mr.Harish V Mekali, Asst. Professor, had been the invited resource person for the WEBINAR on 'ARM Processors' organized by VIVEKANANDA INSTITUTE OF TECHNOLOGY, Bangalore.

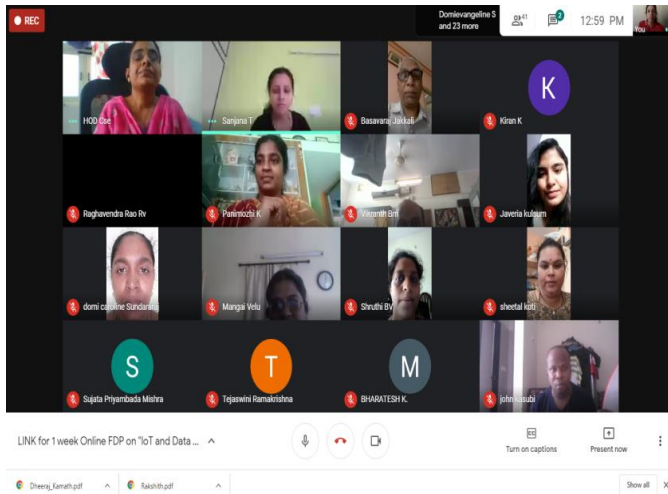
23/07/2020: Dr. B. S. Nagabhushana, Professor, was the invited resource person for a webinar "Battery Management system challenges and state of the art", organized by RNS Institute of Technology, Bangalore.

27/07/2020: Department of ECE and CSE organized a one-week online Faculty Development Program on "IoT and Data Analytics: an End to End perspective". A total of Fifteen resource persons from Various Industries and academia delivered (Dr. Sudhindra K R, Assoc. Prof. and Dr. Geetishree Mishra, Asst. Prof. From EC dept.) their technical talk and faculties from various colleges participated in the FDP. Event was co-ordinated by Ms. Saritha A N, Asst.Prof - CSE, and Mrs. Sanjana T, Asst.Prof – ECE.



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30/07/2020: Mrs. Hemavathi, Asst. Professor, authored a research paper titled **“MUACLP: Modelling Unified Architecture of Cross Layer Parameters Strategy of Handoff for Next Generation Wireless Network”** and got published in the International Journal of Engineering and Advanced Technology, ISSN: 2249-8958 (Online), Volume-9 Issue-5, June 2020, Page No. 1246-1252.

30/07/2020: Mrs. S Lalitha, Mr.H.H. Surendra, Mrs. H. R. Archana, Mr. K. N.Madhusudhan, Asst. Professors, granted patent titled **"AUTOMATIC DIABETIC RETINOPATHY DETECTION AND ESTIMATION FROM MULTISPECTRAL IMAGES USING MACHINE LEARNING ALGORITHMS"** Australian Patent, application number: 2020100868, Patent application type: Innovation, Validity till: 2022-05-28.

30/07/2020: Dr. R. Jayagowri, Assoc. Professor authored research paper titled **"Descending Order Thermal Distribution Partitioning Algorithm for Flip-Chip Packaged 3-D ICs to Improve Heat Sinking and Reduce TSV Count"**, been published on **IEEE Xplore**. Journal: IEEE Transactions on Components, Packaging and Manufacturing Technology, Volume: 10, Issue: 7, On Page(s): 1148-1157, Print ISSN: 2156-3950, Online ISSN: 2156-3985,

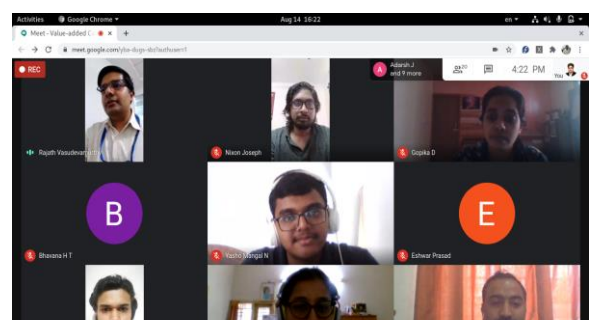
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10.1109/TCPMT.2020.3003503.

01/08/2020: Dr. Seshachalam, D, Professor, invited as a **Jury** for Smart India Hackathon (SIH-2020) at MLRIT, Hyderabad, Telangana, a National level event conducted by AICTE for 3days.

02/08/2020: Dr. Suma M N, Professor along with UG students Ms. Tulasi R Haritsa, Ms. Yashu B M published paper titled "Mathematical characterisation and simulation of LoRa Physical layer" in Wireless Personal Communications, an International Journal, SPRINGER, dated : 2/08/2020.

10/08/2020: One-week online Value-added Course titled "Challenges and Opportunities in the Semiconductor Industry" was organized by the Department of ECE in association with the Institution of Electronics and Telecommunication Engineers (IETE) Bangalore Centre; from 10th to 14th August 2020. Coordinated by Dr. Rajath Vasudevamurthy and Dr. M. Anantha Sunil, Asst. professors. A total of 53 participants of various engineering colleges with few students from outside of Bengaluru participated in the course. A total of ten resource persons, 4 from academia, 3 from industry and 3 from startup companies delivered expert lectures during the programme using the Google Meet platform. The CEO of Electronics Sector Skills Council of India (ESSCI), Śrī Narendra Kumar Mohapatra was the chief guest for the inauguration of the course on the first day. Dr. S. G. Shivaprasad Yadav presided over the valedictory function on the last day, representing IETE.

12/08/2020: Dr. Seshachalam, D, Professor, invited as a resource person to deliver a talk on “Course





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articulation and Program Articulation Matrix” at JNTU Hyderabad under TEQIP III for IQAC.

17/08/2020: Dr. Suma M N and Dr.Rajanikanth, submitted the Project Report for VTU under VTU-TEQIP to promote COVID 19 related innovative ideas and research Projects titled "IOT Based Smart Sanitizer Vending Machine" was delivered on 17th August 2020 to VTU and prototype demonstration was done.

31/08/2020: Dr. Veena. M.B, Assoc Prof., and Ms.Varsha Chavan, PG Student, got their research paper “Power Efficient High speed DDR SDRAM Controller”, in JSR Journal, Volume 12, Issue 8, August 2020.

31/08/2020: Mrs. Archana H R, Asst. Professor, got her research paper “Design of an Efficient AXI-4 Protocol for High Speed SOC Applications on FPGA Platform”, published in a journal titled Journal of Telecommunication, Electronic and Computer Engineering, Vol. 12 No. 3 July – September 2020.

05/09/2020: Dr. Rajanikanth. K. N, Assoc. Prof., and Mr. Madhusudhan K. N, Asst.Prof., organized a one-week online Value-added course on "Emerging Technologies: Industry Perspectives" from 4th to 10th September 2020.

05/09/2020: Department has generously donated for societal cause during COVID – 19:

- Faculty and Technical Staff of EC department have donated a sum of Rs. 5000/-for **Future India Foundation – Madilu Sevashrama** (Orphanage) located at Nandini Layout, Bangalore.



- Donated a sum of Rs. 2500/- to **Mr. Umesh, an Auto driver**, lost his wife the previous month and has two small kids, found difficult to manage without a regular income during COVID-19.

09/09/2020: Dr.Meera. A, Profesor and Mr.Naveen G C, PG Student, paper titled “Connected Vehicle System for Crash Avoidance and Emergency Vehicle” got published in the International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.429, Volume 8 Issue IX Sep 2020-Available at www.ijraset.com.

09/09/2020: Students of 7th Sem Mr. Ankit Kumar- Team Leader, Mr. Akshay S Rao, Mr.Aliasgar AV, Mr. Mohammed Rehab Sait were listed in top 5 –“Scilab Toolbox Hackathon”. 700+ teams registered, 120 were shortlisted and 12 were selected to final round with 5 winners. Totally 8 teams had completed the work and 3 were given consolation prize. This team were among the winners whom they titled as champions.



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12/09/2020: Students Mr.Sunil Hucharaddi, Mr.Vardhan Honmane, Mr. Amruth V, Mr. Supriya Rrecieved SAMSUNG PRISM -Certificate of excellence for worklet "Orientation and Script Detection". These students were mentored by Dr. Suma M N, Professor-ECE.

18/09/2020: Dept. of ECE and Dept. of EI, organized a Webinar on "Data Acquisition and DSP" for the benefit of Students of 5th semester.

21/09/2020: The Indian patent is granted to Dr. R. Jayagowri, Associate Professor - ECE and Ms. Maithri. U. K. Shetty (PG-VLSI Student Now Alumni) for the invention entitled "1 PIXEL / 1 CLOCK THROUGHPUT MODIFIED MEDIAN ADAPTIVE PREDICTOR FOR VESA DSC ENCODER" for the term of 20 years with the Patent number 347212.

21/09/2020: Certificate of appreciation is presented to Dr. K.R. Sudhindra, Associate Professor for sharing his ideas, knowledge and expertise, as a Guest Speaker for the webinar entitled "Radio Standards for 4G Wireless Communications" which was organized by University of Technology and Applied Sciences - Ibra College of Technology and the target audience were the faculties, students and members of IEEE Student Branch in the Sultanate of Oman. This webinar was on a national level through the IEEE ICT Student Branch in coordination with IEEE Oman Section.



22/09/2020: Dr. Imran Khan is awarded with Ph.D Degree in Electronics and Communication Engg, thesis titled "Design and Development of Compact slotted Multiband Microstrip Antenna for various wireless applications", Under the guidance of Dr. Sudhindra. K.R, Assoc. Prof.

24/09/2020: Dr.Veena M. B, Associate Professor and Ms. Sriraksha, PG Scholar, published their Research Paper titled "Framework for performance analysis of Home Subscriber Server" in "International Journal of Future Generation Communication and Networking" Vol. 13, No. 4, Sep 2020, pp. 435–442 indexed in Web of Science.

24/09/2020: Dr. Nagabhushana B.S, Professor, invited as a Guest speaker for the Webinar on "Battery Management Systems" as part of FDP titled "Alternate Fuels" organized by Don Bosco Institute of Technology, Bangalore under the aegis of AICTE-ATAL on 24/09/2020 from 2. 15p.m to 3.30p.m.

24/09/2020: Dr. Seshachalam, Professor, invited as a Guest speaker on "Rubrics design and development" through online for NIITR, Chandigarh under Margadarshak scheme of AICTE.

28/09/2020: Dr. Lakshmi K.P, Professor had submitted a project proposal for VGST under K-FIST1 scheme 2019-20. Proposal titled "Fabrication and Characterization of Thin Films for Sensors, NV memory and Waveguide



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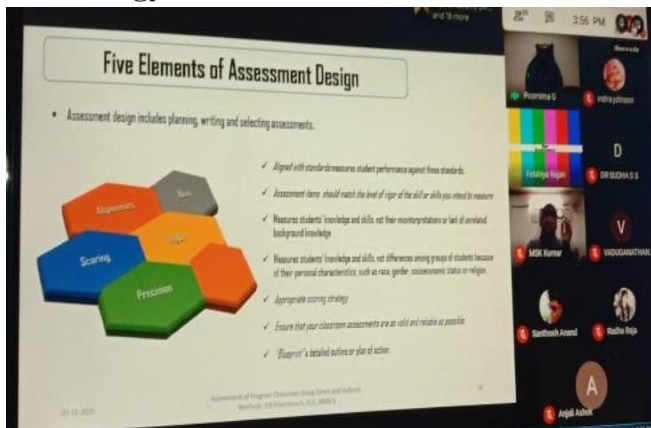
Applications", in the domain of Metallurgical & Materials Engineering and has been selected for funding with an amount of Rs.15Lakhs. Dr. Maligi Anantha Sunil, Asst. Prof., is associated as the CO-PI for the project.

10/10/2020: Dr. Poornima G and Ms. Harshitha S, published Paper on "Framework for Traffic Rule Infringement" in the "Journal of Communication Engineering and its Innovations", Volume 6, Issue 3, PP 1-10, October 2020.

17/10/2020: Dr. Vasundhara Patel K S, paper titled "Crosstalk Noise Analysis in Ternary Logic MLGNR Interconnects Using Shielding Techniques" published in "International Journal of Circuit Theory and Applications" (Published as Early View).

04/11/2020: Dr. Rajath Vasudevamurthy, Asst Prof., Department of Electronics and Communication Engineering served as the Publications Chair for the 9th **IEEE International Conference on Cloud Computing in Emerging Markets (CCEM) 2020** which was held online from 4th to 7th November.

05/11/2020: Dr. Poornima G, Assoc. Prof., Department of Electronics and Communication Engineering, invited as guest speaker and delivered a talk on "Assessments of Program Outcomes" in the webinar organised by **Karpagam Institute of Technology, Coimbatore.**



05/11/2020: **CENTER FOR GLOBAL CERTIFICATIONS** under Hi-Tech Network Embedded Lab was inaugurated by Dr. Arathi R Shanker, HOD- ECE, CEO & CTO of TEQUED LABS, Bengaluru.



06/11/2020: Mr. Amogh H Padasalagi, M.Tech student (VLSI & Embedded Systems) presented his M.Tech project work in the **Research Scholar Symposium** track at the **9th IEEE International Conference on Cloud Computing in Emerging Markets (CCEM)**

Under the guidance of Dr. Rajath Vasudevamurthy, Asst Prof., Department of Electronics and Communication Engineering



06/11/2020: Mrs. Hemavathi, Asst Prof., Department of Electronics and Communication Engineering as a department coordinator for higher education provided career counselling to 3rd year under graduate students in association with Career Labs and received a "CERTIFICATE OF APPRECIATION" from Career Labs in Partnership with BYJU'S, in recognition of the efforts and support extended for the year 2020-2021.



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24/11/2020: Dr. K. P. Lakshmi Professor, Dr. Maligi Anantha Sunil and Dr. Rajath Vasudevamurthy, Asst Prof., Department of Electronics and Communication Engineering demonstrated four experiments online using the **Virtual Lab platform** (developed with support from the **Ministry of Human Resource Development, Govt. of India**) at the **Faculty Development Programme on Virtual Labs** coordinated by the Nodal centre of VTU under the mentorship of **NITK Surathkal**.

16/11/2020: Dr. Rajath Vasudevamurthy, Asst Prof., Department of Electronics and Communication Engineering was invited as a resource person to deliver a series of four talks at the two-week online Student **Induction Programme** organized by **AICTE** for the first year engineering students all over India. The programme was attended by more than 800 participants spanning students, faculty and few parents and was also webcast live on YouTube.

28/11/2020: Dept. of ECE arranged a farewell for Prof. Praphulla, Assoc. Professor, and attained super annuation.



21/11/2020: Ms. Ritika Siyal, Mr. Yasho Mangal, Mr. Manu Saraogi and Ms. Vishnupriya Bharadwaj, students of 5th semester ECE under the guidance of Dr. Rajath Vasudevamurthy, Asst Prof., Department of Electronics and Communication Engineering represented BMS college of Engineering by participating in a **Virtual Labs** venture setup by the company called **Social Proton** in association with **IUCEE** and successfully demonstrated three experiments after undergoing one month training programme organized by the same company.

05/12/2020: Department Of Electronics and Communication Engineering organized a webinar on "**Internet of Things**". Amogh Kahsyap - Alumni, BMSCE, Chetan Gouda - NOKIA INDIA LTD, Bangalore were the invited resource persons for the webinar. The event was coordinated by Dr. Sudhindra K R, Faculty, ECE Department.

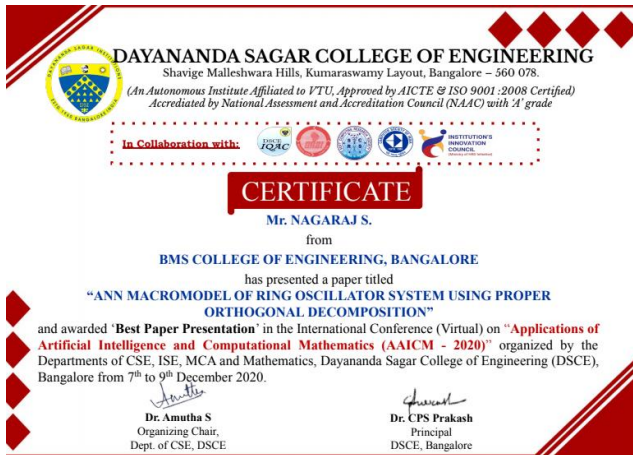
2/11/2020: Dr. Maligi Anantha Sunil Asst Prof., Department of Electronics and Communication Engineering, project titled "**Fabrication of Copper based quaternary chalcogenide semiconductors for photovoltaic applications**" has been approved by the Science and Engineering Research Board (SERB) for funding under **Teachers Associate ship for Research Excellence (TARE)** for the period of 3 years.

07/12/2020: Mr Nagaraj, Research Scholar under the supervision of Dr. Seshachalam. D, Faculty, Department of Electronics and Communication Engineering presented a research paper titled "**ANN MACROMODEL OF RING OSCILLATOR SYSTEM USING PROPER ORTHOGONAL DECOMPOSITION**" and awarded "**Best Paper Presentation**" in the International Conference(virtual) on "Applications of Artificial Intelligence and Computational Mathematics", organized by Dayanand Sagar College of Engineering, Bengaluru.



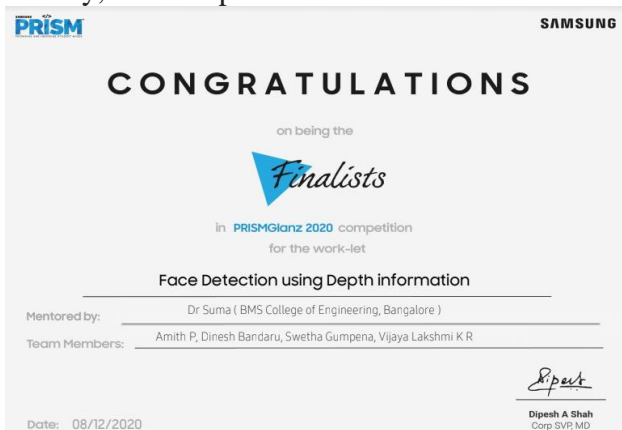
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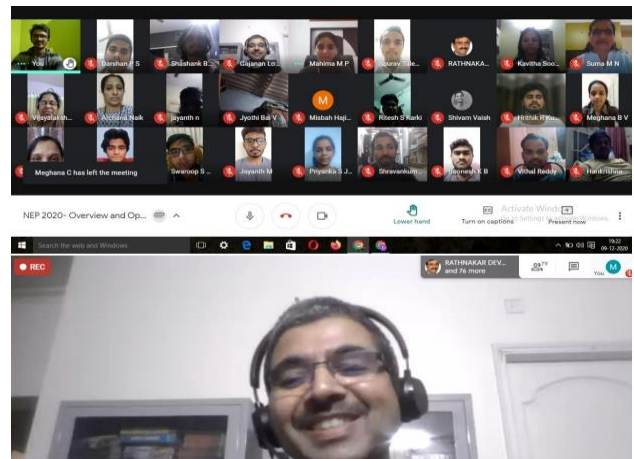


07/12/2020: Dr. Rajanikanth K N, Faculty, Department of Electronics and Communication Engineering, was invited as session chair for the track "Artificial Intelligence and Machine Learning, Data Analytics, and Cyber Security" in the 3 day International virtual Conference on "Applications of Artificial Intelligence and Computational Mathematics" organized by Dayananda Sagar College of Engineering from 7 – 9, December-2020, Bengaluru.

08/12/2020: Students of 7th Semester Department of Electronics and Communication Engineering, Mr. Amith P, Mr. Dinesh Bandaru, Ms. Swetha Gumpena, Ms. Vijaya Lakshmi K R are selected as finalists for PRISMGLANZ 2020 competition for the work-let "Face Detection using Depth Information" mentored by Dr. Suma M N, Faculty, ECE Department.



09/12/2020 Department of Electronics and Communication Engineering and the department of Computer Science Engineering in association with Institution Innovation Cell-IIC BMSCE , hosted a webinar on "ORIENTATION SESSION ON NATIONAL EDUCATION POLICY - NEP 2020" . Mr Gajanana Londhe, Executive Director, SAMVIT Research Foundation and Head - Strategy and Transformation, NOKIA INDIA, presented the overview and opportunities of NEP in HEIs. The event was coordinated by Dr.Suma M N, Faculty of ECE and Dr.Kavitha Sooda, student activity coordinator from CSE Department.



12/12/2020: Dr. Rajanikanth K. N, Faculty, Department of Electronics and Communication Engineering organized an online workshop on "Wireless Sensor Network Programming using COOJA Simulator - A Hands on Approach" for the students of 7th semester ECE Department, the workshop was conducted by Dr. N Shammath, Asst., Professor, Dayanand Sagar College of Engineering, Bengaluru.

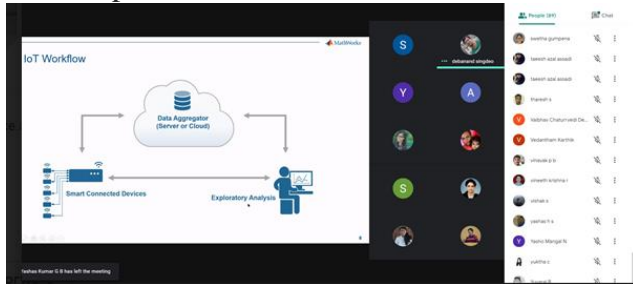
15/12/2020: Department of Electronics and Communication Engineering in association with Institution Innovation Cell-IIC BMSCE, hosted a Skill development workshop on "DEVELOPING IOT APPLICATION". Dr. Spandhana Gonuguntla, Education Technical Evangelist, Dr. Deb Singdeo, Education Technical Evangelist, Mathworks, INDIA were the invited



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resource persons who gave hands-on workshop. The event was coordinated by Dr. Suma M N, Dr. K R Sudhindra, Dr. Rajanikanth K. N, faculties of ECE Department.



19/12/2020: Dr. M. Anantha Sunil and Dr. Rajath Vasudevamurthy, Faculties, Department of Electronics and Communication Engineering organized 3rd monthly lecture under “**Smart Materials and Applications(SM & AP)**”. Professor M. M. Nayak, IISc, Bengaluru was the invited resource person to deliver the talk on “**MEMS Sensors**”.

19/12/2020: An effective free online coaching Programme (GATE 2021) for the students of BMSCE is organized by the Department of Electronics and Communication Engineering for a duration of 15 days (21/12/2020 till 12/01/2021) from a group of Faculties viz., Dr. Rajath Vasudevamurthy, Prof. Shrisha, Prof. Hemavathi, Prof. Monika D Sharma, Prof. Pooja A P.

The event is coordinated by Prof. Hemavathi.D, faculty, department of ECE.

22/12/2020: Dr. Seshachalam. D, Faculty, Department of Electronics and Communication Engineering was the invited resource person to deliver a talk on writing “**Program Educational Objectives**” sponsored by AICTE Margadarshan an Online FDP on “**Outcome Based Education and Research Methodologies**” at Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad.

23/12/2020: Dr. Rajath Vasudevamurthy, Faculty, Department of Electronics and Communication

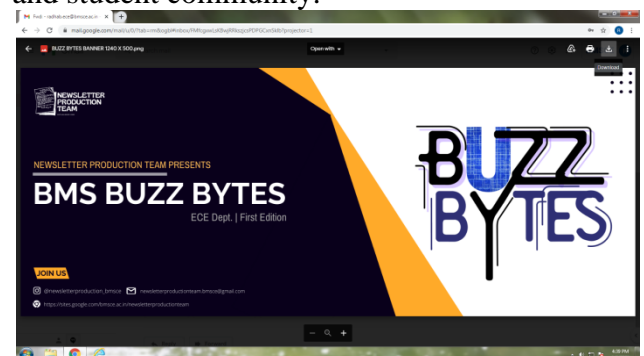
Engineering was invited as a resource person by R.V. Institute of Technology and Management to deliver a talk on “**History of Science**” at the Student Induction Program for the students of first year B.E.

01/1/2021: Dr Veena M B, Faculty, Mr. Girish N, Research Scholar, Department Of Electronics and Communication Engineering published a paper titled “**Low Power Design of Adaptive Power Decoder with FeedForward Message Decoding and Look-Up-Table Approach**” in the Journal of Theoretical and Applied Information Technology.

01/1/2021: Dr. Veena M B, Faculty, Ms. Bhavana D, PG student, Department Of Electronics and Communication Engineering published a paper titled “**An Automated Approach of Detection of Memory Leaks for Remote Server Controllers**” in the EMITTER International Journal of Engineering Technology.

01/1/2021: Mrs. Bhavana H.T, Faculty, Department of Electronics and Communication Engineering have been identified as faculty coordinator by “**Texas Instruments**” for the course “**Embedded Design Systems**” offered by NPTEL. Embedded Design Systems is a 12 week course endorsed by Government of India, AICTE. She has received six **MSP430 Lunchbox kits** by **Texas Instruments Pvt Ltd**.

02/1/2021: Department of Electronics and Communication Engineering launched News Letter “**Buzz Bytes**”. Principal launched the News Letter. It Depicts the strenghts and achievements of faculty and student community.





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06/1/2021: Dr. Seshachalam D, Faculty, Department of Electronics and Communication Engineering was invited as a resource person to deliver a talk on “**Outcome Based Education NBA Accreditation**” organized by TEQIP-III through online at LBS Institute of Technology for Women, Thiruvananthapuram, Kerala.

09/1/2021: Dr. Rajath Vasudevamurthy and Dr. M. Anantha Sunil, Faculties, Department of Electronics and Communication Engineering organized 4th monthly lecture under “**Smart Materials and Applications(SM & AP)**” and the initiative was delivered online by Prof. N. S. Dinesh, Professor, Dept. of Electronic Systems Engg. (DESE), IISc on the topic “**Challenges in Creating Medical Products**”.



An R&D initiative titled
“**SM&AP**”
Smart Materials and Applications
Coordinated by the Dept. of ECE, BMSCE in association with
the Institute of Smart Structures and Systems (ISSS)



presents

Fourth Monthly Lecture
“**Challenges in Creating Medical Products**”

by

Prof. N. S. Dinesh

Professor, Department of Electronic Systems Engineering (DESE),
Indian Institute of Science, Bengaluru

Date: 9th January 2021, Saturday at 10:30 AM

15/1/2021: Dr. Sudhindra K R, Faculty, Department of Electronics and Communication Engineering was invited as guest speaker to deliver a talk on “**IoT and its applications - Case study based approach**”, organized by Dept. of Telecommunication Engineering, RV college of Engg., Bengaluru.

18/1/2021: Dr. Sudhindra K R, Faculty, Department of Electronics and Communication Engineering was invited as guest speaker to deliver a talk on “**5G-Green Communication and Networks Deployment in Smart Cities**” in a 5 days **Online Faculty Development Program** sponsored by ATAL Academy, New Delhi, organized by Dept. of Electronics and

Communication Engineering, **Acharya institute of Technology**, Bengaluru.



21/01/2021: Dr. K. P. Lakshmi, Faculty Department of Electronics and Communication Engineering have been sanctioned seed money of Rs.124700/- for an R&D project titled “**Fabrication and Characterization of Thin Films for Sensors, NV Memory and Waveguide Applications**” under **Centre of Excellence in Advanced Materials Research** through TEQIP III.

22/01/2021: Dr. Rajath Vasudevamurthy, Faculty, Department of Electronics and Communication Engineering was invited as a resource person to deliver a talk on the topic “**History of Science**” at the online Student Induction Program for first year B.E. students organized by Babu Banarasi Das Engineering College, Lucknow through zoom application.

23/01/2021: The students of ECE, CSE and ME conducted an online “**Level – one C Programming Bootcamp**”, for the first year UG students. Mr. Dushyantha- EC, Mr. Deven-ISE, Mr. Mahantesh Gattina-CSE, Mr. Hitesha N –ME, are the student volunteers organized and conducted the boot camp through online.

26/01/2021: The **Indo Universal Collaboration for Engineering Education (IUCEE) Student Chapter** is established at BMSCE. The IUCEE



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Student Chapter of BMSCE will be working towards the vision and reinforce the concepts and ideals of delivering quality and relevant technical education which is at the core of the mission of our institution. Dr. Rajath Vasudevamurthy, Faculty coordinator and Ms. Ritika Siyal, Student of EC department is nominated as Senior student Coordinator at institute level.

27/01/2021: Mrs. Bhavana H.T, Faculty, Department of Electronics and Communication Engineering have been sanctioned seed money of Rs.1,10,000/- for an R&D project titled “**Optoelectrical studies of Al-Doped ZnO thin-films for photovoltaic applications**” under **Centre of Excellence in Advanced Materials Research** through TEQIP III.

27/01/2021: Mrs. Sanjana.T, Faculty, Department of Electronics and Communication Engineering has been sanctioned seed money of Rs.1,05,000/- for an R&D project titled “**Studies on electrical and optical properties of Cu₂O thin films for solar cell applications**” under **Centre of Excellence in Advanced Materials Research** through TEQIP III.

27/01/2021: Dr. Maligi Anantha Sunil, Faculty Department of Electronics and Communication Engineering have been sanctioned seed money of Rs.2,25,000 for an R&D project titled “**Efficiency enhancement of solar cells using photo-alignment technique**” under **Centre of Excellence in Advanced Materials Research** through TEQIP III.

27/01/2021: An **effective free online coaching Programme (GATE 2021)** for the students of BMSCE is organized by the Department of Electronics and Communication Engineering for a duration of 15 days (21/12/2020 till 12/01/2021) from a group of Faculties viz., Dr. Rajath Vasudevamurthy, Prof. Shrisha, Prof. Hemavathi, Prof. Monika D Sharma, Prof. Pooja A P.

03/02/2021: Dr. K.R. Sudhindra, Faculty, Department of Electronics and Communication Engineering was invited to deliver a talk on “**Signal processing for IOT**” at IEEE Sponsored one week online workshop on “**Signal Processing and Applications**” under the **IEEE RVCE Signal Processing Student Chapter**.

The poster is for a one-week online workshop titled "Signal Processing and Applications" organized by the IEEE RVCE Signal Processing Student Chapter. It is held from February 1st to 6th, 2021. The workshop is sponsored by CoreEL Technologies (I) Private Limited and RVCE. The poster includes logos for RVCE, IEEE Bangalore Section, and IEEE RVCE. It also mentions that the workshop is hands-on, featuring expert lectures and sessions on modeling signal processing applications using Matlab and Python. The text describes signal processing as a technology for transforming and analyzing signals for communication and learning, with applications in satellite, video, and wireless systems. It highlights the importance of signal processing in image processing and analysis, and mentions that the workshop covers topics like image classification, speech recognition, and natural language processing.

04/02/2021: Dr Rajanikanth K N, Faculty, Department of Electronics and Communication Engineering published a paper titled “**A verifiable multi-agent framework for dependable and adaptable avionics**” in **Springer Sadhana Journal (2021) 46:27 Indian Academy of Sciences**.

15/02/2021: In view of the inter department sports organized by the Department of Physical education & Sports science, Dr. Arathi R Shankar, Dr. R. Jayagowri, Prof. Bhavana H T, Prof. Shrisha M R, Mrs. Preethu Devaiah from Dept. of ECE and Mrs. Beena Ullalmath from Dept. of ML, Mrs. Bharathi, from Dept. of ISE - women's team won in the throw ball match and Mr. Suprith Kumar, Asst.Professor – ECE won the Chess match.



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16/02/2021: Dr. Seshachalam. D, Faculty, Department of Electronics and Communication Engineering was invited as resource person to deliver a talk on “**More insight in to Program Outcomes**” Sponsored by AICTE Margadarshan an Online FDP on “**Outcome Based Education**” at *National Institute of Technical Teachers Training and Research (NITTTR)*, Chandigarh.

20/02/2021: The thesis work of PG student Mr. Anoop H A guided by Dr. Prerana Gupta Poddar, Faculty, Department of Electronics and Communication Engineering paper titled “**Minimum Pearson Distance Detection for MIMO OFDM Systems**” was accepted and presented at the **4th International Conference on Innovative Computing and Communication (ICICC 2021)** organized by **University of Delhi**, in association with **University of VALLADOLID**, Spain and **National Institute of Technology**, Patna. The paper will be published by **Springer** as a chapter in their upcoming “**Advances in Intelligent Systems and Computing Series**”.

27/02/2021: Dr. Rajath Vasudevamurthy, Faculty, Department of Electronics and Communication Engineering was invited to chair two sessions at the “**IEEE Cloud Computing in Emerging Markets Pre-Conference Workshop**” for the following two talks "**Engineering Trust for Confidential Data Sharing & Analytics for Future Smart**

Cities" and "**Cloud Computing for Climate Action**" were delivered respectively by Prof. Bharadwaj Amrutur, Chairman, **Robert Bosch Centre for CPS, IISc** and Kshitij Purwar, Co-founder & CTO, **Blue Sky Analytics**.

27/02/2021: Under the Guidance of Dr. Rajath Vasudevamurthy, Faculty, Department of Electronics and Communication Engineering Mr. Dushyanta Shukla, Mr. Hitesh N and Mr. Bharath G S, students of 3rd semester ECE presented their project titled “**Road Accident Alert and Mitigation**” and they bagged first prize and received cash prize of Rs.6000 in the Student Project Showcase track of the workshop and Mr. Vineeth Krishna R, Mr. Yashas H S, Mr. Akash Jawahar S and Mr. Deepak R, students of 7th semester ECE presented their project titled "**Vehicle to Everything Communication**" at the “**IEEE Cloud Computing in Emerging Markets Pre-Conference Workshop**”.

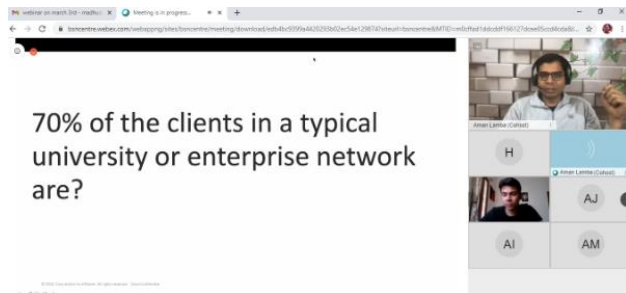
01/03/2021: Dr. Maligi Anantha Sunil, Faculty, Department of Electronics and Communication Engineering was invited to deliver a talk on “**Thin film Technology: From an Engineering Perspective**” sponsored by AICTE a 2-week Online Short Term Training Programme on "**Design and Structural Evolution of Advanced Functional Materials Suitable for Engineering Applications**" Organized by Department of Electronics and Instrumentation Engineering and Centre for Nano Science and Technology (CNST), **Vignan Jyothi Institute of Engineering & Technology**, Hyderabad, Telangana State.

03/03/2021: Prof. Harshitha B, Faculty, Department of Electronics and Communication Engineering coordinated in organizing a webinar on “**How Networking Technology is consumed in almost any Industry**” for UG students and the talk was delivered by Mr. Aman Lamba, Customer Success Specialist and Evangelist, **Cisco Systems**.



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09/03/2021: Dr. Anantha Sunil Maligi and Dr. Rajath Vasudevamurthy, Faculties, Department of Electronics and Communication Engineering organized the 5th monthly lecture under the **Smart Materials and Applications (SM&AP)** and the talk was delivered online on the topic "**Challenges and Opportunities in the Indigenous Development of Medical Devices**" by Dr. Sanjeev Rai, Chief of Research, **Father Muller Research Centre, Mangalore.**



Fifth Monthly Lecture
"Challenges and Opportunities in the Indigenous Development of Medical Devices"
 by
Dr. Sanjeev Rai
 MBBS, DCH; MD (Ped) FIAP, FAAP (USA), MBA (Hosp. Adm)
 Chief of Research, Father Muller Research Centre, Mangalore
Date: 9th March 2021, Tuesday at 2:30 PM
Meeting link: meet.google.com/rir-enko-dck
Link for Registration: <https://forms.gle/7a8LbidiJ27gk9vY9>
 Participants attending the session will receive an e-certificate

18/03/2021: Dr K. P. Lakshmi, Faculty, Department of Electronics and Communication Engineering delivered a talk on "**Chalcogenide for Biomedical Applications**" during a 1-week seminar series on "**Advance materials for Biomedical Applications**" organized by Department of Medical Electronics, BMSCE.

18/03/2021: Dr. K R Sudhindra, Faculty, Department of Electronics and Communication Engineering, organized a 5 day workshop on "**5G Evolution**" for PG students in collaboration with Nokia University Collaboration, Bangalore.



19/03/2021: Dr. Kiran Bailey and Prof. K Sujatha, Faculties, Department of Electronics and Communication Engineering in association with Department of Chemistry were awarded seed money of Rs.69000/- for project titled "**Investigation of Gas Sensor Properties of substituted Spinel Ferrite Gas Sensors**" for R & D activity under Centre of Excellence in Advanced Materials Research - TEQIP-III.

19/03/2021: Dr. Veena M B, Faculty, Department of Electronics and Communication Engineering organized a webinar on "System Verilog for Verification" for PG students of Electronics and VLSI Design & Embedded Systems branch and the talk was delivered by Mr. Ajit Jose, Sr. Verification Engineer, ARM Ltd., (UK).

22/03/2021: Department of Electronics and Communication Engineering in association with Jamboree Education Pvt. Ltd., organized a talk on "Higher Education" for the student of 6th semester ECE both online and offline mode. The event was coordinated by Prof. Hemavathi, Faculty, Dept of ECE.





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27/03/2021: Electrical cluster “Board of Studies” meeting was successfully conducted through ONLINE mode. Dr. Lawrence Jenkins, IISc, Dr. Meenakshi, Professor-AIT, as a VTU nominee, Dr. Vishwanath, Professor-MSRIT were invited along with internal BOS members and electrical cluster department HoDs. The agenda was “Syllabus for AY 2021-2022” for all the semester courses.



31/03/2021: Dr. Maligi Anantha Sunil Prof. Sanjana T, Faculties, Department of Electronics and Communication Engineering presented a paper titled “Touch free operated Face shield cum mask for Multifaceted Applications - Vakthram Kavacham”, and won best paper award in the International Conference on **Intelligent Robotics, Mechatronics and Automation Systems**” organized by **Vellore Institute of Technology**, Chennai.

31/03/2021: Dr M N Suma, Prof. Bhavana H T, Dr. Arathi R Shankar, Faculties, Department of Electronics and Communication Engineering and Mrs Lakshmi (Trust office) won **second** prize in “**Bhavageethe**” group competition and Dr. M N Suma won **second** prize in solo “**Patriotic**” song competition at the **Interdepartmental cultural competition** for Staff of BMSCE.

31/03/2021: Dr. Meera A, Faculty, Department of Electronics and Communication Engineering published a paper titled “**Synthesis of Concentric Circular Array Antenna Thinning using Round**

& Push to Limit Binary Evolutionary Programming” in the **International Journal of Future Generation Communication and Networking**.

03/04/2021: A team of four students Mr. Akhil S Raj, Mr. N Gowtham, Ms Nikita R Swadi, Mr. Mark Ashish, 6th semester, Department of Electronics and Communication won the consolation 4th prize in the **e-Yantra Robotic Competition (eYRC)** under **Sankatmochan Bot** theme conducted through online mode.



12/04/2021: Mrs. Lalitha S, Faculty, Department Of Electronics and Communication Engineering published a paper titled “**An Automated Lung Cancer Detection System Based on Machine Learning Algorithm**” in the Journal of Intelligent & Fuzzy systems.

14/04/2021: Dr. Suma M N, Faculty, Department of Electronics and Communication Engineering won 2nd prize in solo film song at the **Interdepartmental Cultural Competition** organized for the staff of BMSCE.

01/05/2021: Dr. Poornima G, Faculty, Department Of Electronics and Communication Engineering published a paper titled “**System Integration Framework for Smart City Applications**” in the **Journal of Huazhong University of Science and Technology**.



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03/05/2021: Dr. K S Vasundhara Patel, Faculty, Department Of Electronics and Communication Engineering published a paper titled “**Hardware Implementation of a Modified SSD LDPC Decoder**” in the **International Journal of Computer Aided Engineering and Technology (IJCAET), INDERSCIENCE PUBLICATIONS.**

13/05/2021: Dr. Veena M B, Faculty, Department Of Electronics and Communication Engineering was invited as the guest speaker for a webinar on “**Overview on Underwater Communication**” organized by **Nagarjuna College of Engineering & Technology, Bangalore.**

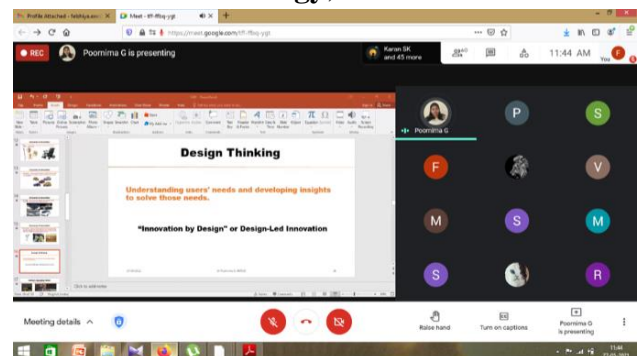


13/05/2021: Dr. Rajath Vasudevamurthy, Faculty, Department Of Electronics and Communication Engineering was invited twice as the resource person to deliver a talk on “**Indian Intellectual Heritage**” at the online **Student Induction Program, Second Phase** for first year B.E. students organized by the **R.V. Institute of Technology and Management, Bangalore.**

23/05/2021: A webinar on “**GRE Quants**” (Graded Record Examination) was organized by **Jamboree Education Pvt. Ltd.**, talk was delivered by Mr. Lakshmi Narayan, **Senior Mentor, Maths, Jamboree.** Twenty one students of ECE Dept from 2nd, 3rd and 4th semester had attended the webinar. The event was coordinated by Mr. Deepak Singh, **Business Development Manager, Jamboree Education Pvt. Ltd.**, and Mrs. Hemavathi, Faculty, Department Of Electronics and Communication Engineering.



27/05/2021: Dr. Poornima G, Faculty, Department of Electronics and Communication Engineering was invited as a resource person to deliver a talk on “**Design Thinking and Engineering**” and the webinar session was organized by **Karpagam Institute of Technology, Coimbatore.**



28/05/2021: Dr. Rajath Vasudevamurthy, Faculty, Department Of Electronics and Communication Engineering was invited as the resource person to deliver talk on “**Indian Intellectual Heritage**” at the online **Student Induction Program, Second**



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Phase for first year B.E. students organized by **R V College of Engineering, Bangalore.**

Principal RVCE principal@rvce.edu.in

Wed, 5 May 11:12

Dear Sir,

Greetings from RV College of Engineering, Bangalore.

As per the guidelines of AICTE, it is mandatory to conduct Student Induction Programme (SIP) for the first year admitted students. **Student Induction Programme (SIP)** is intended to prepare newly admitted undergraduate students for the new stage in their life by facilitating a smooth transition from their home and school environment into the college and university environment. The purpose is to help develop a holistic perspective about life. This is necessary for a student to acclimatize to the new environment of a college and to create a bonding between the teacher and a student.

Online Student Induction Program (SIP phase 1) for first year students admitted during 2020 was conducted during 14th-16th December 2020 at RV college of Engineering and Phase 2 Online Student Induction Program (SIP phase 2) is scheduled 14th-20th May 2021.

In this regard, various sessions are planned as per AICTE guidelines. The induction program for students comprises expert talks on Universal Human Values, Physical health, Indian Knowledge system etc. Also activities related to Yoga, Liberal arts, Innovations, Social & community service, creative practice etc along with familiarization of academic activity, department and College.

We invite you to deliver a session on **INDIAN INTELLECTUAL HERITAGE** during the Induction Program on **20th May 2021** in online mode from **9.30 to 10.30 a.m.**

Kindly accept our invitation and provide your consent.

With kind regards

Prof. K.N. Subramanya
Principal
RV College of Engineering
Bangalore.

30/05/2021: The following Faculties and students of 6th semester Department of Electronics and Communication Engineering, book chapters have been accepted for publication in the book entitled **“Artificial Intelligence Applications in a Pandemic COVID-19”** under the **Smart and Intelligent Computing in Engineering Series** publishes by **CRC press, Rout ledge Taylor and Francis group.**

1. Prof. S. Lalitha, Prof. Bhavana H T, Prof. K N Madhusudhan , Mr. Prascheth and Ms. Harshitha **“Role of Artificial Intelligence in COVID-19”-** (chapter 1)

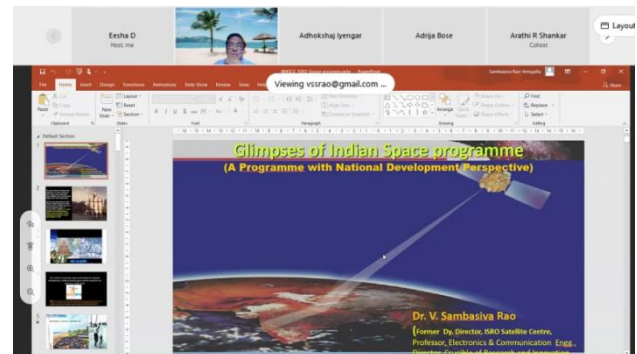
2. Dr. M. Anantha Sunil, Prof. Sanjana T, Ms. Akshata Rai, Ms. Apoorva G Kanthi” **Application of 3D printing in COVID-19”-** (Chapter 2)

3. Prof. Sanjana T, Dr. M. Anantha Sunil, Mr. Akhil S Raj, Mr. Abhishek A, **“Role of IOT and AI in Covid-19”-** (Chapter 3)

30/05/2021: Mr. Siddanth B C, 4th semester M. Tech student proposed a project titled **“E-Farming Using IOT and Cloud Computing”** under the guidance of Dr. Jayanthi K Murthy, Faculty, Dept of ECE, the project has been approved and sanctioned an amount of Rs. 6000/- by **Karnataka State Council for Science & Technology (KSCST)** under the **“Student Project Programme-44th series”** year 2020-2021.

30/05/2021: Dr. Jayanthi K Murthy, Faculty, Department of Electronics and Communication Engineering published a paper titled **“Intrusion detection in hospital automation using internet of things (IOT): An overview”** in Turkish Journal of Physiotherapy and Rehabilitation, Scopus Journal.

30/05/2021: Dr. Sambasiva Rao, retired scientist **ISRO** and present consultant at **Alpha Design Communication Systems** was invited to deliver a talk on **“Glimpses of Indian Satellite Program”** through CISCO Webex for the faculties and students of ECE Dept and the talk was organized by Dr. Arathi R Shanker, HOD, Prof. Eesha D and Prof. Monika Sharma D, Faculties, Department of Electronics and Communication Engineering.



05/06/2021: **ELSOC (ELectronics SOCIety)** is a **Technical Club** under the Department of Electronics and Communication Engineering to bridge the gap between academia and industry by conducting various workshops, competitions and webinars on various topics related to Electronics, Communication and other fields.

Dr. Rajath Vasudevamurthy, Faculty, Dept of ECE is the Faculty Coordinator and students of 2nd and 3rd year E&C are taken up as Office Bearers. The first free workshop and boot camp by **ELSOC** on **“A Date with ARdino”** was conducted by senior students from Dept of ECE through virtual mode on 5th and 6th with 158 registrations and 41 participants from Electrical cluster department.



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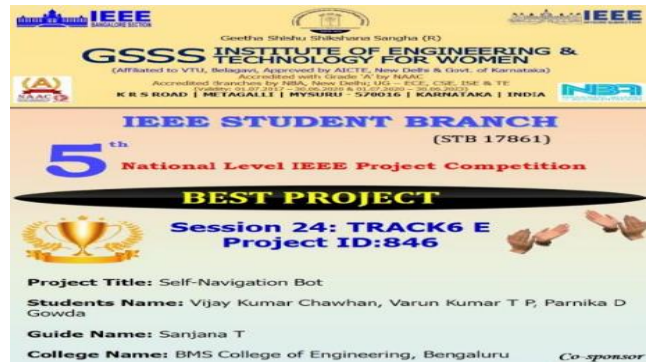
11/06/2021: Dr. K R Sudhindra, Faculty, Department of Electronics and Communication Engineering delivered a talk through Webex on “Radio Standards for IOT” under the theme “Beyond -5G and IOT: Human-Machine Communication” organized by IEEE ComSoc School Series Bangalore Edition.

16/06/2021: Dr. S Akhila and Mrs. Hemavathi, Faculties, Department of Electronics and Communication Engineering published a research paper titled “Novel Analytical Modelling of Simplified Vertical Handoff mechanism for Next Generation Communication” in the Journal of Huazhong University of Science and Technology.

18/06/2021: Dr. K P Lakshmi, Faculty, Department Of Electronics and Communication Engineering was the Event moderator for the panel discussion “Accelerate 2021” organized by IIC-BMSCE in Collaboration with International Society of Automation, BMSCE

19/06/2021: Dr. K P Lakshmi, Faculty, Department Of Electronics and Communication Engineering published a research paper titled “Realization of Convolution Layer using System Verilog for Achieving Parallelism and Improvement in Performance Parameters” in The International Journal of Information Technology, Springer.

26/06/2021: Mr. Vijay kumar Chawhan, Mr. Varun Kumar T P and Ms. Parnika D Gowda, students of 8th Semester E&C under the guidance of Sanjana T, Faculty, Department of Electronics and Communication Engineering won the best project award for the project titled “Self-Navigating Bot” in the 5th National level IEEE Project Competition held through online mode.



26/06/2021: Department of Electronics and Communication Engineering hosted a webinar on “Recommendation Systems” and Mr. Rameshbabu Lakshamanan, AI researcher, Cellstrat, Bangalore was the resource person. The webinar was coordinated by Dr. Suma M N and Dr. Geetishree Mishra, Faculties, Dept of ECE.





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