



**SAPTHAGIRI COLLEGE OF ENGINEERING,**  
(Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi)  
**Department of Electronics and communication Engineering**

Volume 5

July 2020

**ECE PULSE**



**Vision:** To be an endeavoring Department for providing globally relevant learning experience to the students.

**MISSION:** To Develop entrepreneurial skills of students to make them entrepreneurs rather than employees. To Inculcate societal responsibility in students. To Develop entrepreneurial skills of students to make them entrepreneurs rather than employees. To Partner with Industry for focusing on real-life problems and make learning more practical.

**Chairman: Sri G. Dayanand:** The “ECE pulse” newsletter of the department ECE is providing great space for the faculty and students to pen down their innovative ideas, imagination and perceptions to showcase their creativity. So, I take the opportunity to congratulate the department of ECE and its editorial team to successful release of this issue. I am sure that students and faculty will find the content of this edition very interesting and educating.



**Executive Director: Sri G. D. Manoj:** I am indeed happy to know that the department of ECE has taken initiative in realizing its monthly newsletter “ECE pulse” and urge faculties and students to make use of the platform to share and educate among themselves in publishing articles pertaining to the emerging domain and articles of interesting. I congratulate the team of editorial community and department of ECE.



**Principal: Dr. H Ramakrishna:** It gives me immense pleasure to note that, SCE has been publishing bi-annual newsletter and I am sure, this will provide an opportunity for the faculty and students to share their knowledge and beacon the information about various issues and activities that are being taking place in the department. I look forward for more activities and achievements for the department to march towards excellence in the future. I would like to thank all teaching, supporting staff and our beloved students for their active participation in publishing this magazine. My special compliments and congratulation to the editorial team of the department for their consistent effort in publishing this newsletter.



**Vice-Principal: Dr. M H Annaiah:** I am very happy and delighted to know that our college is bringing out the college newsletter. SCE is one of the leading premier engineering colleges in the country offering quality technical education to students thereby enabling them to become globally acceptable engineers in their domains. The newsletter provides a platform for both faculty and students to showcase their achievements and hidden talents. I congratulate our beloved principal and members of editorial board for bringing out this excellent and nformative newsletter on time.



**Head of Department: Dr. Sateesh Kumar H C:** It gives me an immense pleasure to note that ECE Department bringing up department Newsletter. I am sure this newsletter provides an opportunity to the students and the faculties of the department to project their talents through articles, reports of the various academic and technical programs. I congratulate our beloved principal, Vice-Principal and members of editorial board for bringing out this excellent and informative newsletter.



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## Webinar on “Career Opportunities in VLSI Industry”

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Principal and HOD of ECE Inaugurating the webinar

Webinar on “Career Opportunities in VLSI Industry” was conducted on 12-06-2020. The invited Expert is Mr. Girish G K from Chipedge Technologies Pvt. Ltd. The speaker narrated the opportunities in VLSI field.

The various engineers required in this field are well explained to the students. There were 640 members participated with Zoom and Facebook live link.



HOD of ECE and co coordinators

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## Webinar on “NBA Accreditation”

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A webinar was conducted by Electronics and communication department on NBA Accreditation on 24-06-2020. The Dr. Thippeswamy Professor from computer science Engineering BMSCE Bangalore was speaker of the day. He explained the importance of NBA Accreditation and the benefits obtained from that. The speaker gave lots of information about the accreditation and cleared doubts about it.



Participants Listening the lecture

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## **“Faculty Publications”**

Sreekala Kannoth, Dr. Sateesh Kumar H C, Dr. Raja K B “Enhancement of Atmospheric Turbulence Distorted Images Using Wavelet Packet Transform” International Journal of Scientific & Technology Research Volume 9, ISSUE 01, January 2020 ISSN 2277-8616

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## **Mini project Exhibition**

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The students of 8<sup>th</sup> Semester has published 32 project papers in various fields and different publication. MINI PROJECT EXHIBITION - 2019 was organized by the Department of Electronics & Communication Engineering, Sathagiri College of Engineering on 30th November, 2019 (Saturday) in all the labs of ECE department. The exhibition was organized for ECE students of 3<sup>rd</sup> and 5<sup>th</sup> semester which witnessed the participation of 69 project teams.

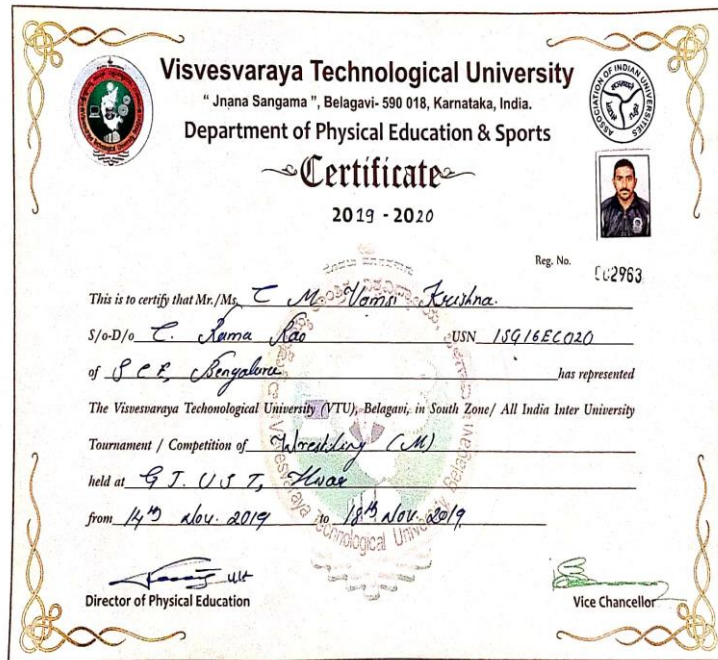
Dr. Basavaraj Hiremath was the external judge for the day for expert supervision. He is Assistant Professor, Department of Medical Electronics in MSRIT, Bengaluru. Dr. K.N. Ravi, Professor and Head, Dept of EEE, SCE accompanied as internal judge for the event.





## Student achievements

Our Student C M Vamsi Krishna student of ECE department has won third place in Wrestling competition conducted by Visvesvaraya Technological University.



### VTU certificates

## CONGRATULATION

Pooja S Bhatt USN 1SG15EC075 secured 3<sup>rd</sup> Rank in VTU



## Student Publications

SI No	Authors	Title	Journals/Conferences
1	Deepk BS, Kiran B N, Deepika V, Dimple Bhat and Shilpa V	Effective use of water for farming using IOT	International Journal of Research in Engineering , Science and Management (IJRESM) Volume: 3, Issue: 4, ISSN (Online): 2581-5792, April 2020
2	Ajay Kumar S, R Dishanth, Nikhil S, Prahlad Y R and Shilpa V	IoT Based Fire-Fighting Robot Using Mecanum/Swedish Wheels	International Journal of Research in Engineering , Science and Management (IJRESM), Volume: 3, Issue: 5, ISSN (Online): 2581-5792, May 2020
3	Kishore Kumar, Madhukesh N M, Naveed Baig, Naveen T and Sudha M S	Coal mine safety system using wireless sensor network	International Journal of Research in Engineering , Science and Management(IJRESM), May 2020
4	Sangeetha V, Sindhu C, Sree Keerthi S, Vasantha V and Prof. Agalya P	Solar Power Based Hydroponics Monitoring System	International Journal of Research in Engineering , Science and Management(IJRESM) May 2020
5	Pavithra R, Pramila K S, Pooja Basavaraj Morki, Nikitha G and Shobha S	An Effective water management and monitoring system based on IOT	International Journal of Progressive Research in Science and Engineering (IJPRSE) May 2020
6	Manu N M, Santhosh Gagan T, Shashank B S, Ashwin Jayan and Shobha S	Implementation of Prosthetic robotic ARM using additive manufacturing	International Journal of Progressive Research in Science and Engineering (IJPRSE) May 2020
7	Arunish Kumar, Mohammad Anis, Shubham Singh, Bhanu Raj and Girish J R	Autonomous Walking and Guiding Stick for Blind using Echolocation and Image Processing	International Journal of Research in Engineering , Science and Management (IJRESM) May 2020

8	Bumika N, Lekhana B S, Likhitha B S, N A Nithyashree and Shobha H	Real Time Tracking and Security System for Rural Areas using LoRa Network	International Journal of Research in Engineering , Science and Management (IJRESM), june2020
9	Srinivas Prasad V, Prajwal R, Ranjith Gowda B, Sanjay Kumar B N, Shobha H	RFID Based Transportation Safety Enhancement System for School Children	International Journal of Progressive Research in Science and Engineering (IJPRSE)
10	Usha Y G, Shruthi C Tiganibidari, Sai Mangala, Rekha T B, Ravishankara M N	ATM Vending Machine for Medicine Self-Dispensing	International Journal of Research in Engineering , Science and Management (IJRESM) june2020
11	Vignesh G, Jayanth S, Madhuchandra D, Yashwanth J and Kavitha R J	Automated Vehicle Theft Prevention using Atmega Embedded Systems	International Journal of Research in Engineering , Science and Management (IJRESM) june 2020
12	Madhura Madhukar Hegde, Ajay P S, Aishwarya G and Kavitha R J	Infra-Red Ciphred Infringement System using MATLAB	International Journal of Research in Engineering , Science and Management (IJRESM) june2020
13	Alok Kumar, Abhay Singh, Kumari Parul, Shubham Jaiswal and Prathibha P	Smart Home Security System using IOT	International Journal of Research in Engineering , Science and Management (IJRESM) june 2020
14	Arnab Bose, Balaji Gowda M, Rashmi R Uppin and Madhu H M	Applications of IOT to Improve the Life of Mentally Disabled People	International Journal of Research in Engineering , Science and Management (IJRESM)
15	Rahul J, Rakesh N, Rohith N, Srinivas V and Suma V Shetty	Li-Fi Based High Speed and Secured Data Transfer using MATLAB	International Journal of Progressive Research in Science and Engineering june 2020
16	Rakshith B, Prateek M K, Zenkar R, Samir Garag and Prathibha P	IOT based Integrated Flood and Reservoir Altering System	International Journal for Scientific research and Development (IJSRD) june 2020
17	Vinay R, Darshan C, Shashank H S, H N Bhavana Jain and Rani B A	Design of Smart Mirror Based on Raspberry Pi	International Journal of Research in Engineering, Science and Management (IJRESM) june 2020

18	Nesar Gaonkar, Karthik P Kulkarni, Hemanth Tavane, Harsha S and Suma V shetty	Low Wind High Speed Wind Turbine	International Journal of Research in Engineering , Science and Management (IJRESM) june 2020
19	Chilukuri Madhu Vamsi Krishna, Chandana V, Krithika L, Anusha Shetty and Dr. Prakash Jadhav	Facial Recognition Based Attendance Management System using Raspberry Pi	International Journal of Research in Engineering , Science and Management (IJRESM) june 2020
20	Sharath Gowda R N, Suhas B M, Santhosh Gowda B R, Hitesh K and Dr. Prakash Jadhav	Smart Pulmonary System with Doctor Appointment	International Journal of Research in Engineering , Science and Management (IJRESM) june 2020
21	Rima, Sadiya Anjum, Pushpalatha P H, N Yashaswini Shree and Dr. Prakash Jadhav	Wireless Sensor Networks for Data Acquisition and Remote Actuation	International Journal of Research in Engineering , Science and Management (IJRESM) june 2020
22	Anusha R, Bindu B S, Kavya R, Likhitha M S and Suma C	Intelligent Rat Robot for Military Surveillance	International Journal of Research in Engineering , Science and Management (IJRESM) june 2020
23	Ashwini S, Lavanya K V, Harshitha B M< Bhoomika N and Preethi T S	Electronic Voting Machine using Biometric and Aadhar card Authentication	International Journal of Research in Engineering , Science and Management (IJRESM) june 2020
24	Ananya H R, Deepthi M , Dikishitha R, Kavya M and Preethi T S	Red Tacton Han Based ATM Control System	International Journal of Research in Engineering, Science and Management (IJRESM) june 2020
25	Sneha Sunil Vaidya, Anvitha S M, Akshatha O H, Mamathashree V and Karthik N C	Detection of Live Electrical Wire and Prevention from Electrocutation using WSN	International Journal of Research in Engineering, Science and Management (IJRESM) june 2020
26	Nivedita Malipatil, V Roopashree, R H Sanjana Gowda, M R Shobha,Sateesh Kumar H C	RFID Based Library Management System	International Journal of Research in Engineering, Science and Management (IJRESM), May 2010

27	Divyashree L, Nidhi S, Ankitha C S, Keshav Kumar Bhandari and Karthik N C	Devices that assist MND Patients	Perspectives in Communication, Embedded System and Signal processing (PICES)-International Journal May 2010
28	Rekha R, Priyadarshini C Pooja R, R Prashanth Prof. Suma V Shetty	Lifi based data and audio communication	International Journal of Engineering Research & Technology (IJERT) May 2010
29	Apoorva G A, Archana Y, Bindu B Sumalatha N, Prof. Suma V Shetty	Library Assistant Robot	International Journal of Engineering Research & Technology (IJERT) May 2010
30	Nikhil R A, Sai Siddharth, Ravi C, Prajwal K and Prathibha P	Real-time Antitheft vehicle tracking system using GSM and GPS	International Journal of Advance Research, Ideas and Innovations in Technology May 2010
31	Steven n Maneges, Rahul Singh S, Pavan Raj R, Mohammed Shahid, Suma C	Smart Garbage Monitoring System using Internet of Things	E-Conference on Advancements in Science and Technology, Dindigul May 2010

**Chief Editor: Dr. H C Sateesh Kumar**

**Editor: Prof. Sudha M S**

**Student coordinator: Lavanya N & Nagesh (4 A) Prateek & Divya (4 B)**

**Sanrupti & Chandra Kumar U (6 B)**