

Cryptex

Newsletter by the Department of
Electronics & Communication Engineering

Vol. 3, Issue 2, July 2018



**SHRI MADHWA VADIRAJA
INSTITUTE OF TECHNOLOGY AND MANAGEMENT**

(A Unit of Shri Sode Vadiraja Mutt Education Trust®, Udupi)

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Newsletter of the Department of
Electronics & Communication Engineering, SMVITM, Bantakal

Vol. 3, Issue 2, July 2018

EDITORIAL

Year ending is neither an end nor a beginning but an on-going process. July is the month where we bid farewell to old syllabus, old batches and old experiences, but carry forward everything we learned because of these experiences. It's not about starting over with nothing, it's about starting over with everything that can help us get to where we want to reach.

A weak link is better than a strong memory. Nothing exemplifies it better than the nostalgic feeling one gets when leafing through the dusty old pages of his/her college magazine or newsletter. It can make a reader travel down the lanes of memory, giving rise to a surge of emotions of many hues and colors. Cryptex is going to give the same pleasure to all the brilliant minds who traverse through the portals of this temple of learning.

We are pleased to put forward Cryptex – the Departmental Newsletter, Volume 3, Issue 2, Jan-Jun 2018, with a scintillating new cover page design, before you. It covers the key developments in the department spanning across the last six months both within academics as well as beyond the academic fronts which kept the campus life abuzz with enthusiasm. This newsletter will make you familiar with our impressive growth story with a glimpse of recent events on the road to provide quality education along with cutting edge research in the field of Electronics and Communication Engineering. This newsletter encapsulates the stories of cultural, academic and extra-curricular feats that the students, faculty and staff have earned with their efforts. The contents inside will give you a clear picture of how we started and how fast we are moving to the goal envisioned by our honorable founder.

Editorially yours

Sachin S Bhat

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Cover Design: Mr. Anantesh Rao

DEPARTMENTAL ACTIVITIES

1. Workshop on Embedded System Design and ARM Microcontroller

The department of Electronics & Communication Engineering (ECE), in association with ISTE Student Chapter organized a 15-day workshop for the students on Embedded System Design and ARM Microcontroller, from 16 to 31 January 2018. Mr. Mayank Ranjan, Mr. Chand Basha, Mr. Varun and Mr. Prasanna from Cranes Software International, Bengaluru, were the resource persons. The students of third year ECE branch participated in the training program and enhanced their knowledge and skills.

Inaugurating the program, Mr. Mayank Ranjan said that technology is a weapon in the hands of engineers, and the students should acquire skills in using the technology to solve the engineering problems in order to build a successful career after graduation. He said that mere classroom sessions as per the syllabus are not enough to become a successful electronics engineer, but the students should obtain the required hands-on skills in using the hardware and software by participating in such training programs.

Quoting a verse from the Upanishad, the Principal of SMVITM Prof. Dr. Thirumaleshwara Bhat said that learning is a lifelong process, until one's last breath. It should not stop after graduation, but it is the beginning of actual learning. He advised the students to come out of fear and shyness, and devote full potential in learning new technologies that are required to shine in the career.



Earlier, the convener Mr. Nagaraja Rao gave a prelude to the workshop and welcomed the resource persons. The Head of the department Dr. Balachandra Achar, the members of faculty and staff were present on the occasion. On the concluding day, the Principal of SMVITM congratulated the students for participating in the training program, and thanked the resource persons for sparing their time to train the students.

2. Workshop on Python Programming



The department of ECE, in association with ISTE Student Chapter, organized a 2-day workshop on the Fundamentals of Python Programming, on 2 & 3 February 2018. Engineers from DTLabz Mangaluru were the resource persons. Interested students from the third and fourth year ECE department participated in the workshop and enhanced their programming skills. Assistant Professors Ms. Kusuma Prabhu and Mr. Vinay Kumar planned and coordinated the workshop. Student representatives of the ISTE Student Chapter extended their helping hands in organizing the workshop.

3. Guest lecture by Mr. Raghavendra Bhat



The department of ECE organized a guest lecture by Mr. M. Raghavendra Bhat of CloudE Mysuru, on 26 February 2018, on the topic of "Industry oriented hardware design". The students of 3rd year ECE branch attended the guest lecture and enhanced their knowledge. Mr. Bhat, who has over 26 years of experience in the area of embedded systems, said that industry-specific training is the key to high growth for career minded job seekers. Hence he said that at CloudE they plug the gap between academics and industry leading to brighter career prospects for the students.

4. Guest lecture Mr. Lakshminarasimha



The department of ECE organized a guest lecture by Mr. Lakshminarasimha of SchemaZen Technologies Pvt. Ltd., Bengaluru, on 28 March 2018. Interested students of 3rd and 4th year ECE branch, and faculty members attended the lecture and enhance their knowledge. The topic of his lecture was "Electronic product design flow and career options in electronics industry across the world." He covered the sub-topics on the growth of electronics industry, reasons for the shrinking of electronic devices, schematic

design, PCB fabrication, prototyping, testing, supply chain management, and other aspects of electronic product design. He also elaborated on why the industries prefer trained graduates over fresh graduates coming out of the college, and how the training can be imparted to the students at SchemaZen.

5. Mini Project exhibition and competition



The department of ECE, organized Mini Project exhibition and competition for 3rd year students on 11 May 2018. Total 25 teams participated in the event, and exhibited their mini projects carried out during their 5th and 6th semesters.

From section-A, BM Shikha, Kavya Shetty, Janish Dayola and Nikhila Rani won 1st prize for their “Advanced irrigation system”, whereas Chandana, Deepika and Deepthi won 2nd prize for their “Electronic Voting Machine using ARM microcontroller”. From section-B, Aravind Upadhyaya, Nikitha Shetty, Supreeth Rao, VK Radheya and Pradeep Kumar won 1st prize for their project titled “Astute oculus headlight system with automatic wiper”, whereas Ravitej Rao, Preetham, Puneeth Kumar and Rakesh Kulal won 2nd prize for their project titled “Computer vision based quality control using Python programming”.

Assistant Professors Ms. Rajashree Nambiar and Ms. Vrunda Adkar coordinated the event. Ms. Shashikala R, Ms. Rashmi KR, Ms. Kusuma Prabhu and Ms. Laxmi Shetty judged the projects.

6. Arduino Workshop

The department of Electronics & Communication Engineering, in association with ISTE Student Chapter, organized a 2-day workshop on the Basics of Arduino Programming, on 20 & 21 April 2018. Mr. Dheeraj Kumar, a student of 4th year CSE conducted the workshop with the help of third year students V K Radheya (ECE), Aravinda Upadhyaya (ECE), Srivishnu (CSE) and Haripriya (CSE).

Interested 51 students from the first, second and third year ECE branch participated in the workshop and enhanced their programming skills. Assistant Professors Ms. Kusuma Prabhu and Mr. Vinay Kumar coordinated the

workshop. Student representatives of the ISTE Student Chapter extended their helping hands.



Earlier, the workshop started with the prayer by Ms. Sushmitha NG. In-charge HOD Mr. Nagaraja Rao gave a prelude to the workshop and congratulated the students for participating. Ms. BM Shikha compered the program.

7. Students interact with alumnus



The department of E&C Engineering organized a talk by Mr. Nikhil Acharya, an alumnus from the 2012-16 batch, on 15 February 2018. The final year students of the department attended the talk and interacted with the alumnus. Mr. Nikhil shared his experiences about his project work and his current job. He advised the students to do what they love to do. Alumni coordinators Ms. Shareen Noronha and Ms. Rajashree Nambiar organized the program, assisted by Ms. Phebe Ann.

The formulation of a problem is often more important than its solution, which may be merely a matter of mathematical or experimental skills.

- Albert Einstein

PRIZE-WINNING FINAL YEAR PROJECTS

1. Imitation of human arm movement by Robotic arm through vision



Imitation is an important way of skill transfer in biological agents. In a human society, people generally teach new skills to other people by demonstration. We do not learn to dance by programming; instead we see other dancers and try to imitate them. Hence, learning by demonstration is an intuitive and efficient way to let a humanoid robot learn a variety of human-like motions. Using this innovative technique, the final year students of ECE branch have developed a Robotic Arm which imitates human arm movement.

Usually most of the robotic arms are controlled by sensors and accelerometers which require direct connections to the human arm. This process is time inducing and cumbersome. This project makes use of camera to capture the video of the moving arm. Hence it does not require any device to be attached to the human arm which makes the task simple and efficient.

In this work, the students have used the Kinect sensor developed by the Microsoft as motion capture device. Kinect is a motion detection and recognition smart sensor which allows

human/computer interaction without the need of any physical controllers. The depth image of human body by Kinect provides space coordinates for each joint and generates a corresponding skeleton coordinates that can be provided in a computer environment. The coordinates that are associated with the right arm are then separated, and angles are calculated. The angles thus obtained are sent to Arduino microcontroller, which in turn generates signals which are sent to the servo motors that rotate according to the angles given as input. The combined motions of the servos result in a complete Robotic arm movement which is a mimic of the human arm movement.

This project has applications in areas such as military, fire accidents, medical surgery, nuclear plants, industries, etc. The students of final year ECE, Rahul Hebbar, Sagar Sujir, Shashank and Rohit Prabhu carried out the project work with the guidance of Assistant Professor Mr. Sandesh Kumar.

2. Circuit explorer for 3D visualization of electric circuits



We have observed that throughout our life education is focused on textbooks, blackboards, chalk and talk. On the other side, we have technologies which makes anything possible. The circuit explorer bridges the gap between technology and education that can facilitate a better learning and better understanding by creating an educational based android application.

The final year ECE students Achala S, Anuradha Nayak, Audry J Barboza and Bindiya Moolya, under the guidance of Ms. Shareen Noronha have developed a project to enable the student and teacher to visualize 3D models of the circuit in the real environment, real time, and at scale. The visual animations and presentations have become a very important material in higher education in recent years along with the development of computer technologies. Augmented Reality is a technology which changes the way we can see, imagine and learn the virtual and physical world around us. This project gives new application of Augmented Reality for an Educational field, which aims to bring interactive learning experience to life of education.

In this project, the image of circuit is scanned from the book and taken to the next level by applying Augmented Reality and Unity to provide unique interesting 3D experience to the reader through mobile device. The project uses Android mobile device to display the 3D models, shows the 3D animation to explain the direction of current flow, explanation of circuit through audio and video for the benefit of students. The result and evaluation of the project shows the interactive 3D visualization of concept, self-learning ability, better understanding and improvement in learning experience.

The Mobile application market is expanding day by day and it is becoming more competitive. Through the mobile application, the printed circuit is scanned using mobile camera. The circuit will be rigged up and the output is displayed. For proper understanding the app contains explanation of components and circuit through audio and video. The users can check current flow direction and voltage in each node. Quizzes are added for the benefit of student. Using this app student can build their own circuit and check the result. Also the app gives description of any scanned component with specification which is very helpful for students.

3. A prototype for separation of solid waste



Due to the rise in urbanization, there is a vital need for proper and effective waste management system. Automatic sorting systems are needed to be developed for proper segregation of waste materials. In this direction, the final year students of ECE, have developed a prototype for effective waste management system.

The prototype consists of three bins for metal, glass and plastic wastes, with a robotic arm and

two sensors. As the trash falls on the tray, first the inductive sensor detects the presence of any metal in the proximity. If the object is metal then the sensing plate rotates towards the metal bin, else it goes for further detection process. Next, the capacitive sensor detects the presence of any material other than glass and plastic. If so, the sensing plate rotates towards the biodegradable bin and the material falls into it. If the object is glass or plastic then the sensing plate rotates towards

the non- biodegradable bin and the material falls into it. When the respective bins get full, an SMS is automatically sent to the concerned authorities to clear the bins using GSM and Arduino interfaces.

The final year students Mr. Yashasvi Shenoy, Ms. Pooja Shenoy, Ms. Vijetha Jain and Ms. Sonali Petkar developed the prototype with the guidance of Prof. Balachandra Achar.

FACULTY ACCOMPLISHMENTS

1. Dr. Balachandra Achar was appointed as the member of the Board of Examiners (BOE) for EC/TE Board at VTU, for the academic year 2017-18.
2. Dr. Balachandra Achar officiated as the judge for "Expro-2018" held at NMAMIT Nitte on 6 Apr 2018; and as a judge for "Technova-2018" held at SJEC Mangaluru on 18 May 2018.
3. Ms. Laxmi Shetty conducted a session on the topic "Presentation Skills" in the 2-week FDP on Enhancing teaching methodologies, at SMVITM during 15-26 May 2018.
4. Ms. Laxmi Shetty registered for Ph.D. at VTU on the topic "Recognition of suicidal thought markers using machine learning advances", under the guidance of Dr. Balachandra Achar.
5. Mr. Avinash N J delivered a guest talk on Programmable Logic Controllers and its Applications at Govt. Polytechnic College, Manipal on 15 Feb 2018.
6. Mr. Chetan R was a judge for the state-level technical paper presentation competition "Sambhram-2018" at SDIT Mangaluru.

STUDENT ACCOMPLISHMENTS

1. **ECE branch girls bagged the overall championship shield in Sports and Games events**

The Girls of ECE branch bagged the overall championship shield in the recently concluded

8th Annual Sports Meet held in the college ground. They topped the points table by scoring a total of 108 points in sports and games events. Ms. Mamatha of 6th semester ECE topped the individual points table with 11 points. Other winners include Audry, Chaitra,

Disha, Parvathi, Ranjitha, Shriraksha, Sonali, Vijetha, Yajnika, Zuha, Manisha, Pooja, Prithvi, Shikha, Aisha, Kavya, Meghana, Rachana, Rashmi, Safa, Sneha, Srilakshmi, Sushmitha and Vinutha. HOD of ECE Dr. Balachandra Achar, Associate Professor Mr. Nagaraja Rao and other members of the faculty congratulated the winners.



2. Ms. N Shriraksha Acharya of 4th year ECE bagged the prestigious “Shri Madhwa Vadiraja award” for the Best Outgoing Female student of the current academic year.
3. Ms. Shriraksha of 4th year ECE won second place in the table tennis event, in the Inter-district indoor Sports Meet organized by Rotaract Club Karkala at Sri Bhuvanendra Indoor Stadium, on 21 Jan 2018.
4. Mr. Raviteja Rao of 3rd year and Mr. Shreeshadas of 1st year, won First Prize in Duet Singing, in Sentia 2018, held at MITE Moodubidri, on 28 & 29 March 2018.
5. Ms. N. Shriraksha Acharya, Ms. Chaitra Acharya, Ms. Chaitra Sherigar, Ms. Krithika Pai, Ms. Parvathi Pai, Ms. Bindiya U of 4th year, and Ms. Vasundhara of 2nd year, won first prize in Group Dance competition, in Sentia 2018, held at MITE Moodubidri, on 27 & 28 March 2018.
6. Ms. Shubha Kotian of 2nd year, won consolation prize in The Hindu State Level inter-collegiate Debate Contest, held at Alva’s Engineering College, on 24 March 2018.
7. Mr. Ullas Kunder of 1st year, and his team, won Second Prize in Paper Presentation competition, in the National Level Technical Symposium, held at Dayananda Sagar College of Engineering, on 22 & 23 March 2018.
8. Mr. Abishek, Ms. Aishwarya Krishna, Mr. Akarsh PK and Mr. Lakshminarayana of 4th year, won First Prize in the paper presentation competition held as part of ENIGMA at Malnad Engineering College, Hassan, on 12 & 13 April 2018.
9. Ms. Chaitra Acharya of 4th year, won First Prize in the classical dance competition, in the VTU inter-collegiate youth festival, held at Angadi Institute of Technology & Management Belagavi, from 11 to 13 April 2018.

CAMPUS PLACEMENTS

44 students of final year ECE branch got placed in various companies in the campus placement drives held during the academic year 2017-18. The department congratulates all the successfully placed students, and wishes the students all the best in their future and a great career ahead. The department also acknowledges the untiring work put up by the department placement coordinators and the institute Placement Officer.

<i>Sl.No.</i>	<i>Name of the student</i>	<i>Names of the companies in which placed</i>
1	AJAY D'SOUZA	Axis Bank Ltd
2	ABHISHEK M NAIK	Axis Bank Ltd
3	AISHWARYA KRISHNA	PathFront
4	AKARSH P K	PathFront
5	ASHWINI SHEETAL DANTIS	PathFront
6	AUDRY JENITHA BARBOZA	Axis Bank Ltd
7	BINDIYA U	Axis Bank Ltd
8	CHAITRA	QSpiders Software Testing Center
9	JONCIL NIHA DSOUZA	Axis Bank Ltd QSpiders Software Testing Center
10	JOYLINE PRINCIA TAURO	Software Specialists Inc
11	JYOTSNA U BAILOOR	Amada India Pvt. Ltd.
12	KARTHIK A ANCHAN	Westline Ship Management Pvt. Ltd.
13	KAVYA	Aradhya's Brilliance Center
14	LAKSHMINARAYANA K N	Axis Bank Ltd
15	MADHURA RAO	Diya Systems Pvt. Ltd.
16	MATHIAS CHRISTEN SUNNY	Diya Systems Pvt. Ltd. Westline Ship Management Pvt. Ltd.
17	MEGHANA	Diya Systems Pvt. Ltd.
18	MELSTON JOYEL TAURO	Westline Ship Management Pvt. Ltd.
19	MOOLYA SRINIDHI RAGHU	PathFront QSpiders Software Testing Center
20	N SHRIRAKSHA ACHARYA	Axis Bank Ltd., Diya Systems Pvt. Ltd Citrix
21	NAYAK PRATEEK DEVENDRA	Mphasis Ltd.
22	NEETHA	Axis Bank Ltd
23	NIDHI P SHETTY	iWave Systems Technologies Pvt. Ltd
24	PARVATHI PAI	Citrix
25	PRAGATHI NAYAK	Diya Systems Pvt. Ltd.
26	PRAJWAL C RAO	Ethnus Consultancy Services Pvt. Ltd. Citrix
27	PUTHRAN VISHAKH B	PathFront Hybritic Informatics Pvt Ltd. Westline Ship Management Pvt. Ltd.

28	RAHUL U HEBBAR	Shriram Transport Finance Company Ltd
29	RAO SWATHI GOVERDHAN	Diya Systems Pvt. Ltd
30	SAHANA G KIDIYUR	Axis Bank Ltd
31	SAMEERA	Diya Systems Pvt. Ltd.
32	SAPTHASHREE	Axis Bank Ltd. Diya Systems Pvt. Ltd. Aradhya's Brilliance Center
33	SHIVANI	Diya Systems Pvt. Ltd.
34	SHREYA RAKSHITHA KARKADA	PathFront
35	SHUBIN	iWave Systems Technologies Pvt. Ltd
36	SWATHI A R	Diya Systems Pvt. Ltd.
37	SWATHI M PADMASHALI	Diya Systems Pvt. Ltd.
38	TILAKRAJ R PUTHRAN	Hybritic Informatics Pvt Ltd. West Line Ship Management Pvt. Ltd.
39	VIBHOR SAXENA	Hybritic Informatics Pvt Ltd.
40	VIDHYASHREE	Tessolve Semiconductors Pvt. Ltd.
41	VIJETHA JAIN	Amada India Pvt. Ltd.
42	VISTON MENDONCA	PathFront
43	VIVEK PAI	QSpiders Software Testing Center
44	YASHASVI ANANTHA SHENOY	Diya Systems Pvt. Ltd. SLK Software Services Pvt. Ltd.

JOURNAL & CONFERENCE PUBLICATIONS

- Nidhi P Shetty, Deiel Roshni Noronha, Deepa H Shetty, Ashiwini Sheetal Dantis, Laxmi Shetty, "Solar Powered Seed Sowing and Pesticide Spraying Farmingbot with Wireless Control", IJSER, April 2018, NCETSE-2018, SMVITM, 27-28 Apr 2018.
- Yashasvi A Shenoy, Pooja D J Shenoy, Vijetha Jain, Sonali, Balachandra Achar, "Design and Development of a Prototype for simplified separation of plastic waste", IJSER, April 2018, NCETSE-2018, SMVITM, 27-28 Apr 2018.
- Madhura Rao, Shannon Kotian, Neetha, Rao Swathi, Sneha M, Nagaraja Rao, "An IOT based Smart Campus System", IJSER, April 2018, NCETSE-2018, SMVITM, 27-28 Apr 2018.
- Nagaraja Rao, Dr.Shantharama Rai.C, "Analysis of Speed Control of DC Motor using various Controllers", IJRRRA, April 2018, ICIET-2018, Bellary, 12-13 Apr 2018.
- Rushali Naik, Suraksha, Vishal A bhat, Nagaraja Rao, Raghavendra Rao.P, "Review of Speed Control of DC Motor using various Controllers", IJRRRA, April 2018, ICIET-2018, Bellary, 12-13 Apr 2018.
- Phebe Ann Samuel, Joyline, Raghavendra Rao P, Sachin Bhat, "Automatic Rice Dispensing in Ration office using RFID and

- GSM Module”, IJSER, April 2018, NCETSE-2018, SMVITM, 27-28 Apr 2018.
7. Joncil, Nathasha, Raghavendra Rao P, “Automatic Ration Material distribution using RFID and GSM”, IJSER, April 2018, NCETSE-2018, SMVITM, 27-28 Apr 2018.
 8. Aishwarya Krishna, Akarsha P. K, Abhishek M Naik, Lakshminarayana K N, Arun Upadhyaya, “Integrated Water Quality Testing Device”, IJSER, April 2018, NCETSE-2018, SMVITM, 27-28 Apr 2018.
 9. Sandesh Kumar, Arun Upadhyaya, Sachin Bhat, Sowmya Bhat, Vrunda Adkar, “High Speed Data Search Content Addressable Memory using Parity Check Bit”, IJSER, April 2018, NCETSE-2018, SMVITM, 27-28 Apr 2018.
 10. Arun Upadhyaya, Vinaya Kumar, S. R, Sandesh Kumar, “Deblurring of Shaken Images- A Comparative Study of Various Algorithms”, IJSER, April 2018, NCETSE-2018, SMVITM, 27-28 Apr 2018.
 11. Sapthashree, Anvitha S Acharya, Namratha N Rao, Bhagyashree, Carol D’Almeida, Sowmya Bhat, “Arduino Based Low Cost Active Dual Axis Solar Tracker”, IJSER, April 2018, NCETSE-2018, SMVITM, 27-28 Apr 2018.
 12. Puthran Vishakh, Tilakraj Puthran, Vibhor Saxena, Kusuma Prabhu, “Environmental Parameter Monitoring Via Smart Glass”, IJSER, April 2018, NCETSE-2018, SMVITM, 27-28 Apr 2018.
 13. Shivani, Swathi M, Sahana, Shubhshree, Avinash N J, “Virtual Eye”, IJSER, April 2018, NCETSE-2018, SMVITM, 27-28 Apr 2018.
 14. Ravitej Rao, Puneeth, Chetan.R, “Computer Vision Based Quality Control of Materials using Python”, IJSER, April 2018, NCETSE-2018, SMVITM, 27-28 Apr 2018.
 15. Prajwal, Rakshith, Shubin, Sukumara, Chetan.R, “Fire Sight: A system for safety and assistance for firefighters”, IJSER, April 2018, NCETSE-2018, SMVITM, 27-28 Apr 2018.
 16. Supreeth Rao, Shetty Nikita, Arvinda Upadhyaya, Pradeepa Kumara, Rajashree Nambiar, “Astute Oculus Headlight System”, IJSER, April 2018, NCETSE-2018, SMVITM, 27-28 Apr 2018.
 17. Zuha Begum, Vikas Rao G.K., Viston Mendonca, Vivek Pai, Vishweshwara Sharma, Rayan Christ D’souza, Rajashree Nambiar P., “Smart Health Monitoring Vest with Bullet Detection for Soldiers”, IJSER, April 2018, NCETSE-2018, SMVITM, 27-28 Apr 2018.
 18. Moolya Srinidhi Raghu, Meghana K Rao, Chaithanya Suresh Amin, Ashuntha Arline Dsouza, Rashmi K R, “Gesture Recognition using Leap Motion for Deaf and Dumb”, IJSER, April 2018, NCETSE-2018, SMVITM, 27-28 Apr 2018.
 19. Rohith Prabhu, Sagar P Sujir, Rahul U Hebbar, Shashank N, Sandesh Kumar, “Imitation of human arm movements via robotic arm through vision”, IJSER, April

2018, NCETSE-2018, SMVITM, 27-28 Apr 2018.

20. Shreya Karkada, Sneha S Poojary, Rizeen Shaikh, Shemaz Parven, Vinaya Kumar S R, "Artificial Intelligence Based bank Cheque Signature verification system", IJESC, May 2018.

21. Jyotsna U Bailoor, Mathias Christen Sunny, Karthik R Anchan, Melston Joyel Tauro, Ganesh Shetty, "Segregation of Cashew Kernel and Areca Nut by using Advanced Color Sorting Mechanism", IJSDR, May 2018.

22. Vruddhi Hegde, Vasavi Rao, Sowmya A, Suraksha, Renita Pinto, "Internet of Things

in the field of Women Security", IJESC, May 2018.

23. Ankith K R, Kishan G S, Kunder Praful Appu, Akshaya Acharya, Arun Upadhyaya, "An IOT based smart bus ticketing and tracking system", IJIFR, May 2018.

24. Aniruddha, Lakshmeesha Acharya, Aaron Sebastian, Akash Shetty, Vrunda Adkar, "Size estimation and detection of disease for Betel vine leaf using image processing", IJSDR, May 2018.

25. Chitra, Kavya, Krithika Pai, Chaitra, Shashikala R, "Pedestrian detection system with speed control", IJRSI, June 2018.

CONFERENCE PRESENTATIONS

1. Carol Melanie, Deepa Devadiga, Ananthakrishna T, Shashikala R, "Texture Dependent Voluntary Cough- What does it tell about quality of swallow", 4th International Conference on Health and Medicine, Srilanka, 22 Dec 2017.

2. Sachin Bhat, "Design and implementation of Binarization technique for Kannada epigraphs", Decennial Conference of Karnatata Science and Technology Academy, Bengaluru, 18-19 Jan 2018.

3. Sachin Bhat, "Enhancement and Recognition of Kannada Inscriptions", IEEE International conference on Electrical, Electronics, Computers, Communication and Computing ", Vellore, 28-29 Jan 2018.

4. Sachin Bhat, "Segmentation of text in ancient documents using convolutional neural network", IEEE International conference on Electrical, Electronics, Computers, Communication and Computing", Vellore, 28-29 Jan 2018.

5. Sachin Bhat, "Preprocessing and Binarization of Inscription images using phase based features", 2nd IEEE International Conference on Advances in Electronics, Computers and Communications, Bengaluru, 9-10 Feb 2018.

6. Sachin Bhat, "Preprocessing, Segmentation and OCR of Kannada epigraphs", 1st

International Research Conclave, Reva University, Bengaluru, 1-2 Mar 2018.

7. Rashmi K.R, "Advanced Multi-dimensional based search using Promish Algorithm", ICCET-2018, Vijayawada, 2-3 Apr 2018.
8. Prateek Nayak, Ranjitha M, Priya Shetty, Rakshith Shetty, Rajesh Nayak, "Auto floor cleaning and mopping bot", NCETSE-2018, SMVITM, 27-28 Apr 2018.
9. Chandana, Deepthi, Deepika, Avinash N J, Chetan.R, "Embedded system based Electronic Voting Machine using ARM cortex M3", NCETSE-2018, SMVITM, 27-28 Apr 2018.
10. Renita Pinto, Sowmya Bhat, Kusuma Prabhu, Avinash N.J, "Instantaneous Buck-Boost Converter for Battery Powered Devices", ICASET-2018, Bengaluru, 17-18 May 2018.
11. Avinash N.J, Renita Pinto, Sowmya Bhat, Kusuma Prabhu, Chetan R, "Library Characterization of D- Flip Flop", ICASET-2018, Bengaluru, 17-18 May 2018.
12. Achala S, Anuradha Nayak, Audry Jenitha Barboza, Bindiya U, Shareen J Noronha, "Circuit Explorer", Jnana Sangama – 2018, VCET Puttur, 16 May 2018.

FDPs AND WORKSHOPS PARTICIPATED

1. All the faculty members participated in the one-day FDP on "Leadership empowerment and development", by Mr. Mukesh Shenai, at SMVITM, on 24 Jan 2018.
2. All the faculty members participated in the half-day workshop on "Class room teaching skills" by Mr. Praveen Kamath, at SMVITM, on 3 Feb 2018.
3. Many faculty members participated in the 2-week FDP on "Enhancing teaching methodologies", conducted at SMVITM during 15-26 May 2018.
4. Dr. Balachandra Achar, Ms. Laxmi Shetty, Mr. Sandesh Kumar and Mr. Raghavendra Rao participated in the one-day workshop on "New Model Curriculum for First Year BE/B.Tech-CBCS Detailed Syllabus as per OBE Format including CO and Bloom's Taxonomy", organized by VTU at SCEM Mangaluru, on 19 May 2018.
5. Dr. Balachandra Achar, Mr. Ganesh Shetty, Mr. Avinash N J and Ms. Renita Pinto participated in the 3-day workshop on "Water resources, Geo-environmental challenges and its applications", at SMVITM during 12-14 Jun 2018.
6. Ms. Laxmi Shetty participated in the 3-day FDP on "Student induction program for AICTE approved institutions", organized by AICTE at SCEM Mangaluru, during 18-20 Jun 2018.
7. Mr. Nagaraja Rao, Mr. Arun Upadhyaya, Mr. Sandesh Kumar, Mr. Krishna Kumar, Ms. Shareen, Ms. Rajashree and Ms. Vrunda participated in the 5-day FDP on "Embedded Systems for Communication Applications" at NMAMIT Nitte, during 19-23 Jun 2018.

GROUP PHOTOS



VISION OF E&C ENGINEERING DEPARTMENT

To emerge as an excellent technical education center and be an integral part in the development of advancing technologies and global challenges, in the field of Electronics and Communication Engineering.

MISSION OF E&C ENGINEERING DEPARTMENT

1. To facilitate an ambience conducive to the excellence in technical education.
2. To provide a platform that will ensure the exchange of ideas and dissemination of knowledge.
3. To establish a research oriented center by having rapport with industries.
4. To foster ethical and value based education with credibility by promoting activities that have societal impact.

E&C PROGRAMME EDUCATIONAL OBJECTIVES

The graduate of Electronics and Communication Engineering should be able to:

1. Exhibit essential knowledge of applied sciences, mathematical modeling, logical interpretation and virtual realization to resolve real-time problems in the field of Electronics and Communication Engineering.
2. Work productively as an Electronics and Communication Engineer, including supportive and leadership roles on multidisciplinary teams.
3. Inculcate effective communication skills to excel in professional growth.
4. Take part in lifelong learning in pace with the advancing technological society.

