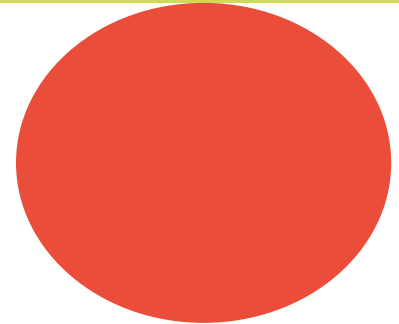


# ECE Newsletter

## FROM EDITORIAL DESK



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It gives us great pleasure to bring out this issue of department newsletter of ECE. The name and fame of an institute depends on the caliber and achievements of the student and teachers. The role of a faculty member is to be a facilitator in nurturing the skills and talents of students. This newsletter is a platform to exhibit the literary skills and innovative ideas of faculty and students. ECE newsletter presents the achievements of students and contributions of faculty. We would like to place on record our gratitude and heart-felt thanks to all those who have contributed to make this effort a success. We profusely thank the management for giving support and encouragement and a free hand in this endeavor.

"True knowledge is not attained by thinking. It is what you are; it is what you become"

-Sri Aurobindo

# CONGRATULATIONS

Mrs. Prathibha M K was awarded Ph.D. in **Electrical and Electronics Engineering Science** for her thesis "Techniques for Implementation of On-Line Hand Written Signature Verification System" under the guidance of Dr. Basavaraj L, in the 19th Annual Convocation of Visvesvaraya Technological University (VTU), Belagavi during the academic year 2018-2019.



## INTERNSHIP ON "LABVIEW"

An internship was organized for final year students on "LABVIEW" at ATME college of Engineering in association with Echelon. It was conducted by Ms. Lavanyashree, National Instruments, Hyderabad and Mr. Mahesh G S from Opti thought, Chennai from 11th to 31st July 2019.

**LabVIEW (short for Laboratory Virtual Instrumentation Engineering Work bench)** is a platform and development environment for a visual programming language from National Instruments

In this course, totally 81 members have participated from ECE Department, out of which 6 faculties of ECE department also undergone the LabVIEW internship training and certified as trainers.

internship program includes LabVIEW Core under this session resource person taught

the basic concepts of LabVIEW and during Core II session the learners familiar with the data acquisition using LabVIEW- digital I/O- analog I/O- reading data from real world- writing data to real world communicating data between parallel loops and also implemented the design patterns concepts.

During Internship Program hands-on sessions were carried out with MyDAQ and MyRIO hardware kits, which were brought from SJBIT-NI LabVIEW academy, Bengaluru. Finally students successfully completed the mini projects by using hardware kits.



## INTERNSHIP ON "Internet of Things- IOT"

An internship was organized for final year students on "Internet of Things (IOT)" at ATME college of Engineering from 21<sup>st</sup> July to 11<sup>th</sup> August in association with Echelon. 28 students from the Dept. of ECE and 2 students from Dept. of CSE have participated in the internship. The resource persons were Mrs. Juslin F, Mrs. Darshini M B, Ms. Anupama Shetter, Mrs. Keerthi Kumbar, Mr. Pardeep Kumar Y, and Mr. Prajwalasimha S N, Faculty members of Electronics and Communication Engineering department, ATMECE.

During the starting period of the internship session students were trained with basic I/O devices interfacing programs followed by Hands-on session. After that students learnt Python programming from basics and

trained them to write the programs by their own efforts and perform the debugging operation during execution in order to obtain the results,

During the last week of internship students completed assigned mini projects and after successful completion of the internship, the certificates were distributed.



## FIVE- DAY NATIONAL LEVEL WORKSHOP ON "ADVANCED CONTROL THEORY AND LATEX "

A Five-day workshop on Advanced control theory and Latex was organized from 15<sup>th</sup> July 2019 to 19<sup>th</sup> July, 2019, sponsored by Seikomec Automation Solutions Pvt. Ltd. Mysuru & Core4 Engineers Mysuru in association with Echelon.

The workshop mainly focused on Advanced Control System, Design of Controllers for stable and unstable process and Modelling & Stability Analysis of Non-Linear Systems.

Dr. Sudarshan Patil Kulkarni, JSS Science & Technological University, given the introduction to advanced control theory and described the concept of mathematical model of any physical systems. Dr. Shreesha Chokkadi, Manipal Institute of Technology, Manipal University,

system with examples'. Dr. Yathisha L, ATMECE, Mysuru, explained the concept of optimal control theory. Dr. Harsha Simha, Indian Institute of Space Science & Technology, Thiruvananthapuram, Kerala, outlined the concept

of stability analysis for Non-Linear systems. Last day of workshop was mainly focused on the usage of LaTeX.

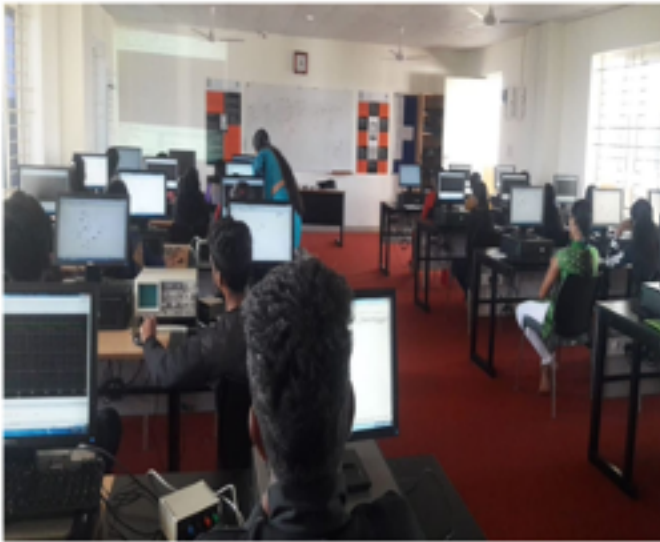
Upon the completion of the workshop the participants will be able to implement the advanced control algorithms on the physical system.



## ONE DAY WORKSHOP ON " POWER CONVERTERS USING PSPICE "

One Day workshop on "Power converters using PSPICE" was conducted for 7th semester students on 2nd November 2019 in association with Echelon. The Resource persons for the workshop were Mrs. Pavithra A C Assistant professor, Dept. of ECE and Mrs. Shalini v S, Assistant professor, Dept. of ECE. The total number of participants for the workshop was 31. The different modules covered in the workshop are as follows. Introduction to PSPICE, Design of Half wave and Full wave rectifier with R and RL load, Design of AC to AC voltage Converter with fixed

and variable frequency, Design of Choppers and inverters and case studies. Students simulated different Power Electronics circuits and gained knowledge about Power Electronics in the workshop. The main purpose of conducting the workshop for the students is to make them understand the Power electronics subject in a best efficient way. The different power electronics circuits which are there in theory part were explained and simulated using PSPICE software.



## SPORTS ACHIEVEMENTS

- ▶ Soft Ball Men Team secured Runner-Up in VTU Inter Collegiate **Rest of B'lore Zone** Soft Ball Championship 2019-20 organized by NIEIT, Mysuru. Nischith J Rao (4th Year) and Chirag C N (2nd Year) and represented from ECE Department.
- ▶ Soft Ball Men Team secured 3rd place in VTU **Inter Zone** Inter Collegiate Soft Ball Championship 2019-20 organized by DBIT, Bengaluru. (3rd time in succession). Nischith J Rao (4th Year) and Chirag C N (2nd Year) and represented from ECE Department.



- ▶ ·Md. Shabaz of 4<sup>th</sup>year EC won Bronze medal (Up to 65kg Category) in ICESM Inter Collegiate Best Physique Championship 2019-20 organized by JSS S&TU, Mysuru.
- ▶ ·Mansoor Fathakof 2<sup>nd</sup>year EC won Bronze medal (Up to 60kg Category) in ICESM Inter Collegiate Best Physique Championship 2019-20 organized by JSS S&TU, Mysuru.

### University Representation

S/No	Name of the Student	Year / Branch	Game	Remarks
01	NISCHITH J RAO	4 <sup>th</sup> yr., EC	Softball	First Time
02	CHIRAG C N	2 <sup>nd</sup> yr., EC	Softball	First Time

### Student project proposals approved for sponsorship in 43<sup>rd</sup> series of student project programme 2019-20 by KSCST

S/No	PROJECT TITLE	NAME OF THE GUIDE(s)	NAME OF THE STUDENTS	SANCTIONED AMOUNT (inRs.)
01.	VISUAL SURVEILLANCE SYSTEM USING ARDUINO	Mrs. HARSHITHA N Mrs. KEERTHI A KUMBAR	Mr. ANIL KUMAR B Ms. SPANDANA N Mr. MAHESHCHANDRA N M Mr. MANOJ M E	5000/-
02	AGRICULTURAL ROBOT USING IOT	Prof. ANUPAMA SHETTER Prof. PRATHIBHA M K	Ms. SAIMA SADAF Mr. SYED FAZIL AHMED Ms. RANJINI D R Mr. NITHISH ATHREYAS S R	5000/-
03	SOLAR OPERATED VISION CAPTURING SPY ROBOT USING RASPBERRY PI 3	Mrs. SHALINI V S Mr. PRAJWALSIMHA S N	Ms. SUPRIYA K Ms. VIDYASHREE H N Mr. WAHID PASHA Mr. RAVIKUMAR K M	5000/-
04	INTELLIGENT WHEEL CHAIR FOR HANDICAPPED PERSONS	Mrs. PAVITHRA A C Mr. Dr PRAKASH KURAVATTI C	Mr. RUPESH KUMAR G V Mr. PRAJWAL M Ms. PUNYA M Mr. YASHWANTH V	4000/-