



SAPTHAGIRI COLLEGE OF ENGINEERING,

(Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi)

Department of Electronics and communication Engineering

Volume 1 **March 2018** ECE PULSE



Vission: To be one of the best ECE departments in the university providing globally relevant learning experience for students.

Mission: Enrich learning experience of students with creative and innovative teaching methods. To inculcate societal responsibility in students. to develop entrepreneurial skills of the students to make them entrepreneurs rather than employees. To partners 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's Desk

It is indeed very happy to bring out newsletter "ECE pulse" by the department of ECE. It is a platform provided by the department of ECE for their students and faculty members where they can share the knowledge, experience and talents in terms of written articles and I would like to compliment and congratulate the department of ECE and its editorial team for the contribution in bringing out the newsletter.



Administrative Officer's Desk

It gives me immense pleasure to note that ECE Department bringing out Newsletter for the academic year 2018-19. I am sure this newsletter provides an opportunity to the student's and the faculty of the department to project their talents through articles, reports of the various academic and extracurricular programmes. I congratulate the editorial committee of the newsletter for their efforts.

Head of Department's Desk

It gives me immense pleasure to note that ECE Department bringing out Newsletter for the academic year 2018-19. I am sure this newsletter provides an opportunity to the student's and the faculty of the department to project their talents through articles, reports of the various academic and extracurricular programmes. I congratulate the editorial committee of the newsletter for their efforts.



Guest Lecture “CCN Applications”

Guest Lecture on CCN Applications was conducted on 21.02.2018 by Sitaram V Yaji Freelance Corporate Trainer and Professor, Department of ECE, NMIT.Bangalore. The implementation of IP PBX in campus, usage of open source, networking tools wireshark and softphones X-lite were narrated in the lecture. He demonstrated the X-lite application and made the session more interactive. The speaker suggested the implementation ideas for their project on networking protocols such as VoIP, IVR, IPIVR, setting up the conference calls, transport layer security, cloud computing, software defined networking, network security.



Students and faculties

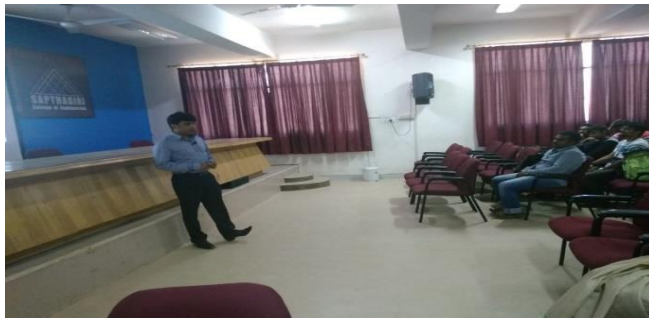


Speaker and HOD Prof.Sandhya Rani

On semiconductor industry a Guest Lecture was conducted on 28.02.2018 by ECE department and

Guest Lecture “Introduction to Semiconductor Industry”

speakers are Mr. Rafeek Ahmed Technical Head, Aricent Technologies & Mr. Praveen Kumar Project Head, Aricent Technologies Bangalore. The Speaker emphasized idea of design flow from specification to manufacturing of the semiconductor devices. It includes the process like collection the requirements and setting the constraints for the devices. The design of semiconductor devices through HDL and analog design were discussed. The process of synthesis, functional and timing verification, physical design, design for testability and formal verification were elaborated Speaker Lecture



Mr. Praveen Kumar Speaking to students and faculty



Students and faculty

Publications, conference, Work Shop FDP attended by Faculty

Table 1: Faculty Publications

Name	Publication, Conference, Workshop and FDP	Title	Place and Date
Sudha M S	Publication(Scopus Indexed)	A Robust Image Watermarking Technique using DTCWT and PCA	IJART December 2017
Sangeeta K Siri	Publication Elsevier(science direct)	Combined endeavor of Neutrosophic Set and Chan-Vese model to extract accurate liver image from CT scan	https://doi.org/10.1016/j.cmpb.2017.08.020 Aug-2017
Sangeeta K Siri	Publication De Gruyter	A Novel Approach to Extract Exact Liver Image Boundary from Abdominal CT Scan using Neutrosophic Set and Fast Marching Method	https://doi.org/10.1515/jisys-2017-0144
Shobha Hugar,	Publication	Review on Performance Analysis of UWB Band pass Micro strip Filters,	International Journal for Innovative Research in Science & Technology(IJRST), vol. 4, Issue 2 , July 2017 ISSN (online): 2349- 6010.

Student Achievement

Table:2 Student Publications

Sl No	Authors	Title	Journal
1	Megha S. Hegde, Agalya p,	“Development and implementation of VLSI configurable architecture for Gabor filter in medical imaging application”	International journal of engineering and Management, research, Volume-8, Issue-3, ISSN 2250-0758, June 2018
2	Veena.k.N, Shobha.S,	An Electrocardiograph based Arrhythmia Detection System,	International Journal of Engineering and Management Research, June 2018
3	Veranamia, Shobha H,	“ECG Acquisition system with Lower DC offset:An Architectural Model”	International journal of Electricals, Electronics and Computer Systems 2017, ISSN2347-2820.

Table 3 Project Exhibition

Sl No	Name	Event	Title	Awards
1	Harsha M N ,Anudeep M, Girish H	SRISHTI-2018 state level project exhibition & competition held at Dayananda sagar college of Engineering on 22-24 May2018	Insect inspired Hexapod with Audio Video and IR feature.	Secured 3 rd place

Editorial Team

Chief Editor: Prof. Sandhya Rani M H
 Editor: Prof. Sudha M S
 Student Coordinator: Vinay (5 B)
 Ganesh (7 A)