



## Department of Electronics and Communication Engineering

### Sai Vidya Institute of Technology

Rajanukunte, Bangalore-560064

# SATTVA

(August 2018-July 2019)

### Vision

To become a center of academic excellence with innovations to make a significant contribution to the society in the field of Electronics and Communication Engineering

### Mission

- ❖ To Educate and Empower the students with state-of-art knowledge and innovation in Electronics & Communication Engineering to meet the global challenges
- ❖ To imbibe the professional competency and ethics congenial to the society through training

## Program Educational Objectives (PEOs)

**PEO1:** Design & Develop Innovative electronic systems.

**PEO2:** Effectively communicate technical information, successfully lead and participate in a multi-disciplinary team environment.

**PEO3:** Engage in lifelong learning through continuing education and industrial practice.

**PEO4:** Demonstrate professional ethics and social awareness.

## Program Specific Outcomes (PSOs)

**Graduates will be able to:**

**PSO1:** Design and simulate Electronics and Communication systems using concepts and tools of electronic circuits, signal processing, VLSI technology and communication.

**PSO2:** Architect, partition and select appropriate technologies for implementation of a specified electronics & communication system.

## Director's Message



I am delighted to note that Department of Electronics and Communication Engineering, SVIT is bringing out Department Newsletter. I appreciate the enthusiasm of eminent members of the Department who have contributed to the Newsletter. Department newsletter definitely provides a platform to showcase the activities and achievements of the students and staff such as: conferences attended by staff members and students, competitions won by students, innovative projects carried out by students with the guidance of staff, among others. I wish the students and staff of Department of Electronics and Communication Engineering, all success.

*-Prof. M R Holla  
Director, SVIT*

## Additional Director's Message



Greetings to all the staff members, student friends, parents and other stake holders. I am delighted to present the newsletter of Department of Electronics and Communication and Engineering. With core emphasize on academics, Department of Electronics and Communication Engineering also motivates and nourishes students and staff members in co-curricular and extracurricular activities. The college standing by the spirit of its Vision had hosted many technical events to showcase the innovations of the young budding engineers. We continue to support the cause of contributing to the society and to the nation by providing a holistic growth to the students by imparting quality education and shaping their character through Induction Training programme.

*- Prof. A M Padma Reddy  
Additional Director, SVIT*

## Principal's Message



I am extremely happy to know that the Department of Electronics and Communication Engineering, SVIT is bringing out newsletter for the academic year 2018-19 and this is an ongoing process portraying the various Departmental activities. It is great to find a considerable number of achievements in academic and non-academic activities which certainly prove that our staff and students are adequately equipped and possess necessary skill-sets to bring laurels to the institution. I wish that this number may grow in the years to come. My Congratulations to ECE team.

- *Dr. H S Ramesh Babu*

*Principal, SVIT*

## HOD's Message



*Dear Students,*

On behalf of entire Department of ECE, I welcome you all. I hope you will enjoy your stay in our Department. I am very sure after the end of four year you will come out with flying colors professionally qualified. Our Department has outstanding teachers such as Prof. Y Jayasimha, Prof. Vikramathithan among others. Department of ECE has done tremendous achievements in the field of research and developments and the department is catalyzed supported by Vision Group on Science and Technology (Dept. of IT, BT & ST Govt. of Karnataka). The department is constantly encouraging and supporting the students to present their work in top international conference held abroad including USA and Europe, to meet the changing requirement of the industry

*-Dr. Narayan K  
Dean R & D, Professor and Head  
Department of ECE,*

# Editorial Board

Chief Editor: Dr. Narayan K

Editorial Board Member :Prof. Sandeep SeetaramNaik

Student Member: Bhavana S P, Dept of ECE

## Faculty

**Prof. Y Jayasimha**, Dean Academics &

Associate Professor

**Dr. Narayan K** ,Dean R&D, Professor, and  
Head

**Prof. Vikramathithan A C**,Associate Professor  
& Deputy HOD

**Prof. Venkatesha M**, Assistant Professor

**Mr. Suryanarayana N K**, Assistant Professor

**Ms. Asha K**, Assistant Professor

**Ms. Pavithra G S**, Assistant Professor

**Mr. Pavan Kumar E** , Assistant Professor

**Ms. Nayana K**, Assistant Professor

**Mr. Prashanth N**, Assistant Professor

**Mr. Darshan R V** , Assistant Professor

**Mr. Sandeep S N**, Assistant Professor

**Mrs. Shwetha M**,Assistant Professor

**Ms. Prabha K**, Assistant Professor

**Ms. AkshithMonnappa**, Assistant Professor

**Mr. S Manjunatha Chari**, Assistant Professor

**Mr. Kumara K R**, Assistant Professor

**Ms. Chaya B M**,Assistant Professor

## Advisory Board Members

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Bangalore

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Professor, Department of ECE, The  
Oxford College of Engineering  
Bengaluru

**Dr. Srikanth P C**

Professor, Department of ECE,  
Malnad College of Engineering  
Hassan

**Mr. Srikanth**

HR Manager, Velankani Electronics,  
Bengaluru

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Design Engineer, Sri Dutt  
Technologies Pvt. Ltd, Bengaluru.

**Dr. Kavitha E**

Department of Telecommunication  
Engineering , Sir. MVIT Bengaluru

**Dr. Hanumantha Raju**

Professor, Department of ECE,  
BMSIT, Bengaluru

**Dr. Rajani**

Associate Professor, Department of  
ECE, RNSIT, Bengaluru

**Ms. Ananya N**

Alumni (2013-17 Batch), Working at  
Hewlett Packard Enterprise Technical  
Solutions Consultant

# Events / Workshops Conducted

## ❖ Workshop on Nanotechnology and Photonics



As the part of departmental activity the Professional societies IEEE Photonics and EMBS Student Chapters has conducted the work shop on the date 5<sup>th</sup> of September 2018 on the topic Nanotechnology and Photonics. **Dr. T. Srinivas**, Assoc. Professor, Dept. of Electrical Engineering IISc, **Mr. Awanish Pandey**, CeNSE, IISc, **Mr. Rahul Singh Kotesa**, CeNSE, IISc.

the resource persons experts in nanotechnology are the part of function and provided the resent technology and ideas are evolving our the nanotechnology. Totally 133 participants actively participated in the event and made it as grand success by gaining the knowledge on the Nanotechnology and Photonics.

## ❖ IEEE Humanitarian event in Road safety training for youth

An event on Road safety was hosted by SVIT IEEE Student Branch and Department of ECE, Sai Vidya Institute of Technology, Bengaluru in association with IEEE-Bangalore Section, IEEE Young Professionals, Bangalore Section and MASH Foundation.

We would like to thank Management and Principal for providing an opportunity to host this event. A special thanks to our Principal, Dr. Ramesh Babu H S for his encouragement in hosting and also for providing the logistics required for hosting the event.





Dr. Narayan K, IEEE SVIT Student Branch Advisor, initiated the event by addressing the students about Road safety and the importance of it. **Mr. Mangesh Raut, MASH Foundation**, was the trainer for the event. He addressed the students about the road safety, how to take measures when someone is met with an accident, he explained the students about Samaritan law. He demonstrated how the first aid can be performed on the spot of accident. He has also given insight to the students about medical emergencies like CPR, snake bite, dog bite etc.

# Toppers Meet

The Department of Electronics and Communication conducted 'Toppers Meet' on **April 29, 2019**. **Dr.H.S Ramesh Babu**, Principal of our institution graced the occasion with his presence. **Dr.Narayan.K** , Dean (R&D), Head of the Department, Department of Electronics and Communication Engineering and the faculties of Department of electronics and communication engineering worked as a team to make the event a grand success. All the students from second year, third year and final year of the Department of ECE participated in the event along with the toppers.



**Dr. H.S Ramesh Babu**, Principal of our institution congratulating and distributing certificates to the toppers



**Dr.Narayan.K**, Dean (R&D) and Head , Department of Electronics and Communication Engineering congratulating and distributing certificates to the toppers.



# Student Publications

## Electronics & Communication Engineering Academic Year 2018-19

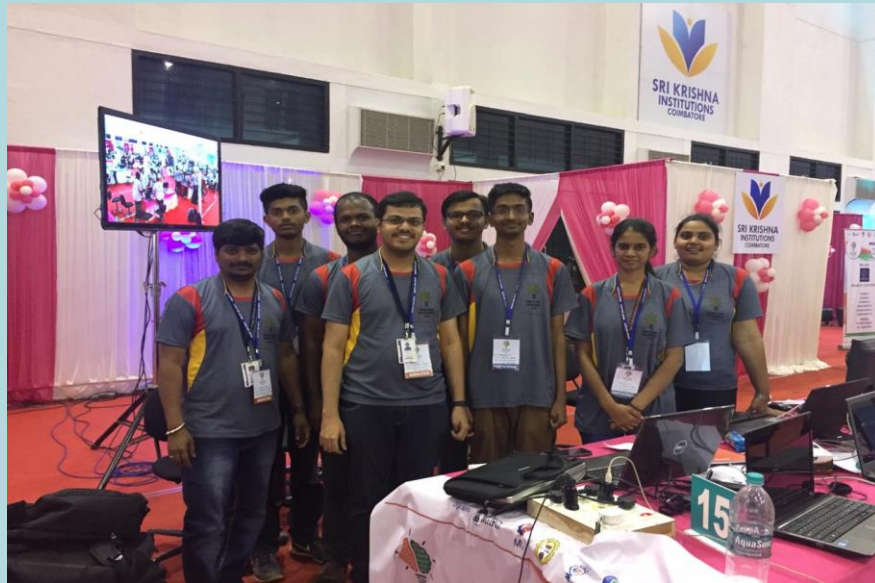
Sl. No.	USN	Name of the Student	Title of the paper	Name of the Journal/Conference	Publication details (Vol, Issue, page number, year, place)	ISBN/SSN/D OI
1	1VA15EC005	AlokChakravarthi H S	A Vision based Humanoid	International Journal of Engineering Science and Computing	Volume 9, Issue no. 5 May 2019	ISSN:2321-3361
2	1VA15EC061	Nidhi Shetty K				
3	1VA15EC076	Sagar S				
4	1VA15EC082	Sharon Prarthana C				
5	1VA15EC012	Chaithra N	IoT based intelligent garbage disposable units with integration of smart card	2019 4 <sup>th</sup> IEEE International Conference on Recent Trends on Electronics, Information and Communication Technology (RTEICT-2019)	17 <sup>th</sup> -18 <sup>th</sup> May 2019, SVCE, Bengaluru	978-1-7281-0630-4/19/\$31.00(c) 2019 IEEE
6	1VA15EC011	Bhagyashree S				
7	1VA15EC031	Anusha J C				
8	1VA15EC053	Meghana H P				
9	1VA15EC092	Sushma S				
10	1VA15EC060	Navya Y R				
11	1VA15EC062	Noor Ayesha				
12	1VA15EC100	Vandana N	Disease detection of plant leaves using Image Processing	3 <sup>rd</sup> National Conference on "Emerging Trends in VLSI, Embedded and Networking" NC-EVEN 2019	9 <sup>th</sup> -11 <sup>th</sup> May 2019 Brindavana College of Engineering, Bengaluru	Paper presented
13	1VA15EC090	Suhasini R	A Novel design, implementation and testing of stress monitoring with IoT technology	International Conference on Recent Engineering and Technology ICRET 2019	5 <sup>th</sup> May 2019, New Horizon College of Engineering, Bengaluru	Paper presented
14	1VA15EC086	Shuba R				
15	1VA15EC101	Varshini B S				
16	1VA15EC058	Navya B R				
17	1VA15EC078	Shabaz Ahmed Khan	Evolution of Digital filters for Noise Present in Digital Images	IJESC International Journal of Engineering Science and Computing	Volume 9, Issue no. 5. May 2019	ISSN:250-1371
18	1VA15EC093	Swaroop Gowda H				
19	1VA15EC095	T Rukmini				
20	1VA15EC087	Soujanya P				
21	1VA15EC103	Vignesh R	Recent Innovations on Automated Self Driving Cars: A Survey	9 <sup>th</sup> International Conference on Recent Engineering and Technology ICRET 2019/ International journal of science and innovative Engineering &	New Horizon College of Engineering, Bengaluru. May 5 <sup>th</sup> 2019.	ISBN 978-93-81288-18-4
22	1VA15EC105	Vishali C				
23	1VA16EC400	Ashwini Maheshwari				
24	1VA15EC066	Pooja M Kaushik				

				Technology		
25	1VA15EC004	Aleena Easo	Effect of Simulation on organic photodetectors using Nano Structure	9th International Conference on Recent Engineering and Technology ICRET 2019/ International journal of science and innovative Engineering & Technology	New Horizon College of Engineering, Bengaluru. May 5 <sup>th</sup> 2019.	ISBN 978-93-81288-18-4
26	1VA15EC036	Keerthana Dinesh				
27	1VA15EC008	Ashika H				
28	1VA15EC026	Harshitha B				
29	1VA15EC106	Vismaya K R	Design of a 3-ring resonator SOI structure for Cholesterol Detection in blood	International Conference on Recent Engineering and Technology ICRET 2019	New Horizon College of Engineering, Bengaluru. May 5 <sup>th</sup> 2019	Paper presented
30	1VA15EC077	Sai PreethiJatta				
31	1VA15EC081	Sharath K P				
32	1VA15EC107	Viveka B R	Modelling and Simulation of SERS Substrate for improved enhancement factor: Bio-Sensing application	International Conference on Researches in Science and Technology (ICRST-19)	16 <sup>th</sup> May 2019, Bangalore	Paper presented
33	1VA15EC071	Raksha D N				
34	1VA15EC072	Rakshitha N A				
35	1VA15EC057	Naveen J L				
36	1VA16EC406	Samrin Taj	IoT based school bus monitoring system with child security	International Conference on Computer Networks and Inventive Communication Technology (ICCNCT-2019)	RVS Technical Campus, May 23 <sup>rd</sup> - 24 <sup>th</sup> 2019 at Coimbatore Tamil Nadu, India	Paper presented
37	1VA15EC029	Harshitha T G				
38	1VA15EC112	Vedashree B S				
39	1VA15EC111	Spoorthy H D				
40	1VA15EC042	Likith Kumar D V	Monitoring and Analysis of water purification with IoT in village	2019 4 <sup>th</sup> IEEE International Conference on Recent Trends on Electronics, Information & Communication Technology (RTEICT-2019)	SVCE, Bangalore, 17 <sup>th</sup> - 18 <sup>th</sup> May 2019	978-1-7281-0630-4/19/\$31.00(c) 2019 IEEE
41	1VA15EC046	Chandrakanth M S				
42	1VA15EC019	Gagan B K				
43	1VA15EC006	Amith Kumar B H				
44	1VA15EC013	Chaitrashree N	Object counting and density calculation using image processing and IoT	National Conference on "Emerging Trends in VLSI, Embedded & Networking" NC-EVEN 2019	Brindavana College of Engineering May 9-11 2019	Paper presented
45	1VA15EC028	Harshitha K N				
46	1VA15EC043	Likitha M J				
47	1VA15EC048	Madhushree G				
48	1VA15EC051	MedaVyshnavi V	Implementation of Search and Rescue Robot for Défense application	3 <sup>rd</sup> National Conference on "Emerging Trends in VLSI, Embedded & Networking" NC-EVEN 2019	Brindavana College of Engineering May 9-11 2019	Paper presented
49	1VA15EC074	Ravi G				
50	1VA15EC064	Pallavi M				
51	1VA15EC039	Mahesh Kondur				
52	1VA15EC045	M Poojashree	A Review on Liquid core waveguide-based MOEMS structure	3rd International Conference on trends in Electronics and	SCAD College of Engineering and	ISBN:978-1-5386-9439-8
53	1VA15EC018	G Sai Harshitha				
54	1VA15EC015	Darshi Jenny				

		Manaswitha		Informatics (ICOEI 2019)	Technology on 23-25 April 2019	
55	1VA15EC033	K Rajani				
56	1VA15EC047	Madan M	Solar powered novel object interaction for next generation automobile	3 <sup>rd</sup> National Conference on "Emerging Trends in VLSI, Embedded systems & Networking"	Brindavana College of Engineering May 9-11 2019	Paper presented
57	1VA15EC037	Khizer Ahmed				
58	1VA15EC056	Nanda Sagar S				
59	1VA15EC050	Manohar S				
60	1VA15EC007	Anishka Divakaran	Analysis of opto-fluidic ring-resonator for bio-sensing application	International Conference on Recent Engineering and Technology ICRET 2019	New Horizon College of Engineering, Bengaluru, Karnataka, 5 <sup>th</sup> May 2019	Paper presented
61	1VA15EC094	Swekrithi Shetty				
62	1VA15EC034	K Suhas				
63	1VA15EC002	Adarsh M M				
64	1VA15EC001	Abhimanyu Kumar	Camouflage Surveillance Robot	National Conference on Recent Trends in Engineering Science and Technology (NCRTE ST-19)	C Byregowda Institute of Technology, Kolar. 11 <sup>th</sup> May 2019.	Paper presented
65	1VA15EC040	Kushal S L				
66	1VA15EC030	Indrakumar S				
67	1VA15EC022	Gautham G Nair				
68	1VA15EC110	Pooja Manjunath	Interactive sketch-based image retrieval	National Conference on science, Engineering and Management NCSEM 2K19	The Oxford college of engineering, Bangalore. 8-9 <sup>th</sup> May 2019	Paper presented
69	1VA15EC088	Spurthi H T				
70	1VA15EC035	Karthik R				
71	1VA15EC069	Priyadarshan C S				
72	1VA16EC086	Raksha V	Analysis of ring resonator structure with quality factor enhancement	Proceedings of SPIE	SPIE Optics + Optoelectronics, 2019, Bangalore	DOI: 10.1117/12.2520946
73	1VA17EC101	Sourabh V Bhat	IoT Based Integrated Hospital and Blood bank Handling and Control System	International Conference on Topical Transcends in Science, Technology and	17 <sup>th</sup> and 18 <sup>th</sup> Aug 2018, SVIT, Bangalore	Paper presented
74	1VA16EC069	NISHITHA R	Automatic Billing System using Barcode Scanner by Android and Monitoring	2019 4 <sup>th</sup> IEEE International Conference on Recent Trends on Electronics,	SVCE, Bangalore, 17 <sup>th</sup> - 18 <sup>th</sup> May 2019	978-1-7281-0630-4/19/\$31.00(c)
75	1VA16EC034	Ganga	5G @ Wifi six game changer for future communication	NCEC-2019	DSCE, Bangalore 9-11 May 2019	Paper presented

# Students Achievements

- ❖ **Ms. Apeksha and Mr.Akshay Kumar** of 6<sup>th</sup> semester from ECE department, participated in Smart India Hackaton –held at Sri Krishna Institutions, Coimbatore on April 2019 and won 1<sup>st</sup> prize in the Hackaton.



SAPPHIRE CODERS and 1<sup>st</sup> prize winning team at Smart India HACKON-April 2019 held at SRI KRISHNA INSTITUTIONS, Coimbatore.

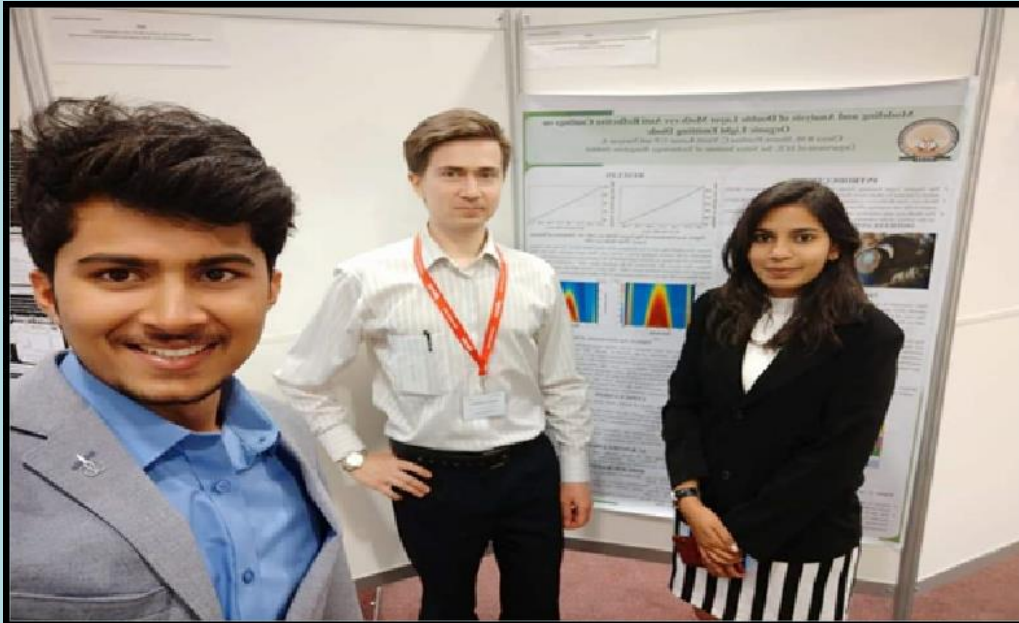
- ❖ **Ms.Raksha V and Ms. Umme Kulsum** of 6<sup>th</sup> semester have presented the papers at SPIE Optics + Optoelectronics, 2019, Prague, Czech Republic SPIE on 11 April 2019 , the international society for optics and photonics. Under the guidance of Dr.Narayan.K , Professor, Head , Department of ECE.



Ms Raksha and Ms. Umme Kulsum along with Dr.Gerard Mourou (Nobel prize Luerate-Physics 2018 ), Ecolepolytechnique France at SPIE Optics + Optoelectronics, 2019, Prague, Czech Republic (Ms Raksha received travel grant of USD 500 from SPIE Society USA).



- ❖ **Ms. Sharon C Prarthna and Vinith Kumar GP**, of 8<sup>th</sup>semester have presented the papers at PHOTOPTICS, Prague, Czech Republic, Proceedings of the 7th International Conference on Photonics, Optics and Laser Technology - Volume 1: PHOTOPTICS, 190- 195, 2019,.Under the guidance of Dr.Narayan.K,Professor, Head, Dept. of ECEand Prof. Chaya B M, Department of ECE.



Mr Vinith P and Ms Sharon C at, PHOTOPTICS, @ Prague, Czech Republic

- ❖ **Ms. Sampritha and Mr.Vijeth Sarashetti** of 8<sup>th</sup>semester has presented the paper at SPIE Photonics, held at San Fransisco,California, USA. SPIE, the international society for optics and photonics. Photonics West is about sharing important research and the latest advancements to help move projects and technology into the future.



Student paper presentation in SPIE Photonics held at San Fransisco

The program supports people doing important work in research and development. SPIE annually organizes and sponsors approximately 25 major technical forums



,exhibitions and education programs in North America, Europe , Asia and South Pacific, Under the guidance of Dr.Narayan.K, Professor, Head , Department of ECE.

- ❖ In the month of September 2018 **Mr. Vaibhav Shah** and **Ms Sai Preeti Jatta** Department of ECE presented a paper on “Design and Analysis of Graphene-based Single” one of the top International Conference 31st Annual Conference of IEEE Photonics Society (IPC 2018) held in **Reston Virginia, USA** under the valuable guidance of **Dr. Narayan K** and **Mr. Venkatesha M.**



Ms. Vaibhav, MsPriyanga and Ms Preethi jatta, Presentating a paper at IEEE Photonic Conference @ Reston USA

- ❖ In the month of September 2018 **Ms. Vismaya** Department of ECE presented a paper on “Design and Analysis of Graphene-based Single” one of the top International Conference 31st Annual Conference of IEEE Photonics Society (IPC 2018) held in **Reston Virginia, USA** under the valuable guidance of **Dr. Narayan .K** and **Mr. Venkatesha M.**



IEEE Photonic Conference (IPC 2018) @ Reston USA, Ms. Vismaya, Ms Preethi, Mr Vaibhav, Ms Priyanga and Mr. Sharath K Prabhu

- ❖ **Mr. Sanjay B S** of 6<sup>th</sup> Semester ECE was part of Western group Band which won 3<sup>rd</sup> place in VTU Youth Fest -2018.



Western group Band bagged with 3<sup>rd</sup> place

- ❖ **Mr. Sanjay B S** of 6<sup>th</sup> Semester and **Mr. Adarsh M** of 8<sup>th</sup> semester from ECE was part of Western group Band which won 1<sup>st</sup> place in SIT, Tumkur.





Western group Band bagged with 1<sup>st</sup> place

- ❖ **Mr. Sanjay B S** of 6<sup>th</sup> Semester and **Mr. Kamuni Suhas** of 8<sup>th</sup> semester ECE was part of Western group Band which won 2<sup>nd</sup> place in Presidency University.



2<sup>nd</sup> prize winners, Battle of Bands Performance at Presidency university

- ❖ **Ms Priyanga R** (Alumni ) attended IEEE Summer Topicals Conference, and the IEEE Photonic Society in 2019 and received grant of 2500 USD.



Ms Priyanga R in 2019 IEEE Summer Topicals Conference, and the IEEE Photonic Society.

## Students sponsored / received grants from IEEE to visit Conferences held Abroad



**Mr. Sharath (ECE)**

**Mr. Sharath K Prabhu** Department of ECE is one the active student member of IEEE and IEEE photonics and EMBS chapters. He was the one of the student coordinator for the International conference CRALT which is jointly organized by IEEE photonic society Bangalore chapter and IEEE Photonic student branch IISc.

He is involved in many technical activities conducted by IEEE SVIT Photonics and EMBS chapters. So he got a travel grant of 2000 USD to attend the 31st Annual Conference of IEEE Photonics Society (IPC 2018).



**Ms. Priyanka (ECE)**

**Ms. Priyanga**, Department of ECE is one the active student member of IEEE and IEEE photonics and EMBS chapters.. She is involved in many technical activities conducted by IEEE SVIT Photonics and EMBS chapters. So he got a travel grant of 2000 USD to attend the 31st Annual Conference of IEEE Photonics Society (IPC 2018). She is also the recipient of women in Photonics society travel grant of 2000 USD

## Academic Achievements

- ❖ 51 Students are certified in **National Programme on Technical and Enhanced Learning (NPTEL)** for various Courses of Electronics and communications engineering in the year 2018-19.
- ❖ Internship details of our students are as follows:

Sl.No	Internship Title	Duration	Participants
1	Hardware design and manufacturing and high performance computing (Velankani Electronics)	Jan 15 -2019 to Feb15 -2019	35 students
2	Live telecast switching system	JAN 8 -2019 to Feb8 -2018	19 students
3	Dosimeter Reader	Jan 15 -2018 to Feb-2018	3 students
4	Rail Wheel and Axle Manufacturing	Jan 15 -2019 to Feb15 -2019	12 students
5	IEEE Photonic Society Internship Program Entitled "Photonic integrated circuits"	15 <sup>th</sup> January to 15 <sup>th</sup> March 2019	26 Students



## Project Exhibition

Sai Vidya Institute of Technology had conducted project exhibition for students of final year of all the branches. Exhibition was conducted on 8<sup>th</sup> May 2019.

### List of Best Projects of the Batch 2018-19

SL.No	USN	Name of the Students	Title of the Project
1.	1VA15EC084	Shivaranjani R	Design and Analysis of optical wavelength division multiplexer using photonic crystal.
	1VA15EC070	Rajalakshmi B	
2.	1VA15EC014	Akil Kumar reddy	A Novel Approach of IOT based Flood relief
	1VA15EC023	Gowri R	
	1VA15EC021	Gautham Kumar Singh	
	1VA15EC025	Harshitha B	



Students receiving certificates for the best projects in project exhibition by Principal Dr.Ramesh Babu H S

## FDP/ Workshops attended by Faculty

Sl. No.	Name of the Faculty	Name of the FDP/ Workshop	Place	No. of Days
1	Mr. Suryanarayana N K	Nanotechnology and Photonics	SVIT, Bangalore	1 day
2.	Ms. Chaya B M			
3.	Mr. Venkatesha M			
4.	Ms. Shwetha M			
5.	Ms. Pavithra G S			
6.	Mr. Kumara K R	Helping students through the College years	Global Academy of technology, Bengaluru	5 Days

## MOOC Certification by Faculties

Sl.No	Faculty Name	Course	Organization / University
1	Prof. Vikramathithan A C	Principles of Signals and Systems	NPTEL
2	Ms. Prabha K	Advanced IOT- Applications	NPTEL
3	Mr. Kumara K R	Advanced IOT- Applications	NPTEL
4	Prof. Mamatha A	Programming in JAVA	NPTEL

## Faculty Publications

**Dr.Narayan K**

- Modeling and Analysis of SOI Gratings-based Opto-Fluidic Biosensor for Lab-on-a-Chip Applications.,Journal. Photonics May, 2019 ,SCIE DOI: [10.3390/photonics6020071](https://doi.org/10.3390/photonics6020071)
- Electrostatically Tunable MOEMS Waveguide Bragg Grating based DWDM Optical Filter.Journal. of Micro/Nanolithography, MEMS, MOEMS March-2019IF: 1.193 , SCIEDOI:<http://dx.doi.org/10.1117/1.JMM.18.1.015503>
- MEMS tunable SOI waveguide Bragg grating filter with 1.3 THz tuning range for C band 100 GHz DWDM optical network. Journal. Photon NetwCommun, Febraury 2019,IF: 1.328, SCIE ,DOI:<https://doi.org/10.1007/s11107-019-00849-9>

- Improvement in quality factor of double micro ring resonator for sensing applications. Journal. of Nanophotonics 2019, **IF** : 1.429, **SCIE** ,DOI:[doi.org/10.1117/1.JNP.13.026014](https://doi.org/10.1117/1.JNP.13.026014)
- Analysis of ring resonator structure with quality factor enhancement. Conf. Proceedings , March SPIE 2019, **Scopus**, DOI:<https://doi.org/10.1117/12.2520946>
- FDTD modeling and simulation of organic photo detector using photonic crystals. Conf. Proceedings SPIE March 2019, **Scopus**, DOI:<https://doi.org/10.1117/12.2520863>
- Design and Analysis of Optical Ring Resonator for Bio-Sensing Application. Conf. Proceedings SPIE Jan- 2019, **Scopus** , DOI:<https://doi.org/10.1117/12.2510201>
- Modeling and Analysis of Double Layer Motheye Anti Reflective Coatings on Organic Light Emitting Diode.Conf. PHOTOPTICS, Jan- 2019, **Scopus** DOI:[10.5220/0007385201900195](https://doi.org/10.5220/0007385201900195)

#### **Prof.Venkatesha M**

- Modeling and Analysis of SOI Gratings-based Opto-Fluidic Biosensor for Lab-on-a-Chip Applications.,Journal. Photonics May, 2019 ,**SCIE** DOI: [10.3390/photonics6020071](https://doi.org/10.3390/photonics6020071)

#### **Prof. Chaya B M**

- FDTD modeling and simulation of organic photo detector using photonic crystals. Conf. Proceedings SPIE March 2019, **Scopus**, DOI:<https://doi.org/10.1117/12.2520863>
- Modeling and Analysis of Double Layer Motheye Anti Reflective Coatings on Organic Light Emitting Diode.Conf. PHOTOPTICS, Jan- 2019, **Scopus** DOI:[10.5220/0007385201900195](https://doi.org/10.5220/0007385201900195)

#### **Prof.Shwetha M**

- Improvement in quality factor of double micro ring resonator for sensing applications. Journal. of Nanophotonics 2019, **IF** : 1.429, **SCIE** ,DOI:[doi.org/10.1117/1.JNP.13.026014](https://doi.org/10.1117/1.JNP.13.026014)
- Analysis of ring resonator structure with quality factor enhancement. Conf. Proceedings , March SPIE , 2019, **Scopus**, DOI:<https://doi.org/10.1117/12.2520946>

- Design and Analysis of Optical Ring Resonator for Bio-Sensing Application. Conf. Proceedings SPIE Jan- 2019, Scopus , DOI:<https://doi.org/10.1117/12.2510201>

### **Prof. Pavan Kumar E**

- A Vision based Humanoid, International Journal of Engineering Science and Computing, Vol 9, Issue no. 5 May 2019, ISSN:2321-3361.
- Analysis of different EEG data sets extracted from brain using ICA, IJSDR, Vol-3, Issue 5, 1805078, OCT 2018
- Robust Visual Multi Target Trackers: A Review, IJEECS, Scopus indexed, p- ISSN:2502-4752, e-ISSN: 2502-4760, October 2018.

## **Graduation Day-2019**

### **Best Outgoing student – 2018-19**



Mr. Vinith Kumar G P receiving award "Best Outgoing student" of Department of ECE and College





Graduation Day Photo of ECE A section -2015-2019 Batch



Graduation Day Photo of ECE B section -2015-2019 Batch