

ECE News Letter 2018-19

Department Vision: (Frozen)

“Disseminate quality technical education for achieving academic excellence with focused training and prepare professionals embodied with competence, values and research culture to meet industry and societal needs in the field of Electronics & Communication Engineering”.

Mission (Frozen):

The department will continuously strive to :

M1. Facilitate teaching- learning environment that caters to technological and societal needs.

M2. Educate students to practice multidisciplinary research for a successful career.

M3. Inculcate theoretical, practical, design and development skills necessary for lifelong learning as an individual or in a team.

M4. Enrich skills, attitude and core competence by providing them opportunity to bring out their inherent talents.

1. Specialization: Department of Electronics & Communication Engineering

After completion of 4th semester in B.E (Electronics and Communication Engg.) the student will have the opportunity to pursue specialization in any one of the following fields :

- Embedded Systems and IoT
- VLSI Design
- Mobile Computing
- Automation Engineering

2. Program overview

This comprehensive program at SKSVMACET college addresses industry's demand for graduates who can integrate the principles and applications of Electronics and communication Engineering as well as furnish you with a detailed understanding of the principles of electrical engineering, enabling the rational selection of the most appropriate approach to solve engineering problems.

The program at SKSVMACET College provides students with a thorough introduction to Electronics, covering the key areas of circuits and operational amplifiers. This program covers basic circuit analysis skills, operational amplifiers from a theoretical and practical basis and the associated Mathematical concepts and tools. Students are introduced to the propagation of high speed signals around circuit and systems and principles of noise within them. They also learn to consider concepts of Signals Integrity and Electromagnetic compatibility, the effects of not

achieving EMC on system operation and some of the fundamental concepts that lead to these problems and their mitigation.

Students experience many real-world practices by working in teams-taking technical problems, capturing the requirements, creating a specification for a solution, simulating it using industry-standard software tools, before final implementation in hardware.

3. Academic frame work

ECE program is recognized by AICTE and affiliated to VTU with current intake of 60 students. Program curriculum is adhering to the Visvesvaraya Technological University (VTU). VTU revises the syllabus periodically to accommodate the changing needs of the industry. ECE program focuses on the design of technological information systems including computing systems, as solutions to business, research data and communication support needs. It comprises instruction in the principles of Electronics and communications. Our curriculum lays intensive focus on

1. Electronics Devices
2. Network theory
3. Power electronics and instrumentations
4. Digital system design
5. Computer organizations and Operating Systems
6. Analog circuits
7. Signals and Systems
8. Analog and Digital Communication Systems
9. Verilog HDL
10. Digital Signal Processing
11. Microprocessor and Controller
12. IoT
13. Network and Cyber security
14. Microwaves and Antennas

4. Best practices implemented

Sl.No	Practices Implemented
1	Technical Talks
2	Industrial Visits
3	Workshops

5. Learning outcome

- The skill sets of Electronics & Communication Engineering Graduate are as follows
- Ability to design internal and external assembly of transformer, alternator and DC machine.
- Able to design, implement and debug different types of electric circuits.
- Ability to plan and check the basic installations in generating, transmitting and distribution side of power system.
- Ability to supervise electrical equipments.

6. Career opportunities

- Design Engineer
- QA & QC Engineer
- Software developer
- Embedded developer
- network and system engineer
- Field Engineer

7. Students Strength

Sl.No.	Year	Student Strength
1	I	58
2	II	56
3	III	72
4	IV	60

8. Academic toppers

Odd Semester 2018-19

Rank	1 st Semester	%	3 rd Semester	%	5 th Semester	%	7 th Semester	%
1 st	Ms. Bhagya Radder	86.375	Ms. Rehana Pathan	79.06	Ms. Shweta Mullur	83.37	Ms. Ramya Joshi	81.38
2 nd	Apeksha C B	80.875	Mr. Chaitra Hanagoudru	78.94	Mr. Rekha Totad	83.00	Ms. Vaishnavi B P	77.37
3 rd	Rashmi Goudakar	78.75	Ms. Sahana Shelake	78.35	Ms. Anusha M Gadag	82.87	Ms. Kavana S H	74.63

Even Semester 2018-19

Rank	2 nd Semester	%	4 th Semester	%	6 th Semester	%	8 th Semester	%
1 st	Ms. Bhagya Radder	86.88	Ms. Rehana Pathan	83.06	Ms. Soumya Shirol	82.5	Mr. Akash S P	85.29
2 nd	Ms. Rajeshwari A S	84.63	Ms. Sahana Shelake	77.41	Ms. Rekha Totad	80	Ms. Kavana S H	83.57
3 rd	Ms. Channamma D	82.75	Mr. Manjunath S Koparde	77.06	Ms. Pragati D	78.6	Ms. Apoorva N	82.71

9. Department events

ODD SEMESTER

1. Association Inaugural Function

Department Association Inaugural Function was successfully completed on 29/08/2018 and also Technical talk conducted by Sri. Chetan Patil (CEO,) and Sri. Kumarswamy K (CMO) Addition

Tech,during Association Reopening day.

2. Inauguration of Skill Development Lab

Main Coordinator &: Prof. Vishal Kulkarni.

Department Coordinator: Prof. Basavaraj S.

Date: 29th August (4.00PM to 5.00PM)

Resource Person: Sri. Chetan Patil (CEO,) and Sri.Kumarswamy K (CMO) Addition Tech.

Participants: All ECE students

3. “Workshop on Analog and Digital Circuit Designing and Simulation”

Espectra in Association with SDEC Cell organized workshop with hands on session on “Workshop on Analog and Digital Circuit Designing and Simulation” for students on 7th of September 2018. Resource person was Prof.Sachin Patil . 56 students took part in the workshop.

4. “Innovative Project Expo 2018 registration and workshop on Interfacing of Arduino Using MATLAB.”

Espectra in Association with SDEC Cell organized workshop with hands on session on “Innovative Project Expo 2018 registration and workshop on Interfacing of Arduino Using MATLAB.” for students on 8th and 9th of September 2018. Resource person was Prof.Sachin Patil . 62 students took part in the workshop.

5. “Hands-on training on Raspberry Pi + IoT (Project Perspective Learning).”

Espectra in Association with SDEC Cell organized 5 daysworkshop with hands on session on “Hands-on training on Raspberry Pi + IoT (Project Perspective Learning).” for students on 10th and 14th of September 2018. Resource person was Prof.Basavaraj S. 25 students took part in the workshop.

6. “Basic Electronics”

One day hands-on workshop for 1st year students on “**Basic Electronics**” was conducted successfully by Prof.Santosh Bujari from 05/09/2018 to 06/09/2018. 56 students took part & enjoyed designing different kinds of circuits.

7. "Development of Image Processing Applications using Matlab"

5 days hands-on workshop for students on "**Development of Image Processing Applications using Matlab**" was conducted successfully from 11/10/2019 to 14/10/2019 by Prof.Manjunath B. and 60 students took part in it.

8. “Prototyping and Designing the Software for IoT Applications”

One day hands-on workshop for students on "A workshop on “**Prototyping and Designing the Software for IoT Applications**” was successfully completed on 12/10/2019 by Prof.Shashidhar PK. and 60students were took part of it.

9. "Industry Interaction Program (Only VLSI Domain)”

One day hands-on workshop for students on "Industry Interaction Program (Only VLSI Domain)”

was successfully completed on 3/12/2019 by Vijay Gudi MD SEMI-KSHA Technologies Pvt.Ltd Hubli Branch and 60 students were took part of it.

10. 2 days hands-on workshop for students on "" was conducted successfully from 15/02/2019 to 23/02/2019 by Mr. Vijay Gudi ,Mr.Amogh M and Mr. RavirajKuberand 56 students participated in it.

EVEN SEMESTER

1. Digital Design Verification using cadence tool

Two days Students Training organized by Prof. Sanjay V.C. and Prof. Kiran Kotin **on Digital Design Verification using cadence tool** from 28th-Feb-2019 to 01st -March-2019 with resource person Mr. Vijay Gudi , Mr. Amogh M and Mr. Raviraj Kuber and 16 students of 8th semester were took part of it.

2. “Webinar on SoC using Verilog HDL”

One day workshop organized by Prof. Sanjay V.C. on **“Webinar on SoC using Verilog HDL”** on 8th-Feb-2019 with resource Dr. P. Sivakumar and 48 Students from E&C Department 6th sem Students were part of it.

3. “Anveshana - 2019 (Science And Engineering Fair)”

From 25th -27th Feb 2019 “Anveshana - 2019 (Science And Engineering Fair)” was organized by Prof. Basavaraj Soratur for Students of 8th semester & Govt High School Gojanur

4. “Mini projects using Ardino Board”

In Even Semester Every Week Friday (2.30PM to 5.30PM) workshop on **Mini projects using Ardino Board for 6th semester students was conducted by Prof. Basavaraj S.**

5. **Event Name:** from 2/4/2019 to 5/04/2019 four days training program on “Internet of Things (IoT)” was organised by Dr. Subhas Meti with resourse person Vinayak Dongadi FUEL and 72 Final and Prefinal year ECE students were part of it.

6. “Farewell function “

On 15/5/2019 **“Farewell function “to 2018-19 Outgoing Batch** was organized by Prof. Maltesh and Students of ECE (1st, 2nd, 3rd and Final Year) were present.

7. “Inter department Volleyball”

On 8th and 9th April **“Inter department Volleyball”** for Girls conducted by Prof Maltesh IG.

8. “Inter department Cricket tournament”

On 9th and 10th April **“Inter department Cricket tournament”** was conducted by Prof Maltesh I G

9. Report on Melanze 2019 Technical Events

- Illuminati (National Level Technical Paper Presentation)
- ECE and EEE jointly organized illuminati paper presentation.
- Participants from various colleges took active participation. A total of 12 teams participated in the event.
- Dr. Mahendra Dixit, SDMCET, Dharwad & Dr. Subhas Meti, Judged the event

10. ” Roborace”

Dept. of ECE conducted one more technical event” **Roborace**” . It had two rounds.

- Round1: Maze
- Round2: Arena

Coordinators : Prof.Maltesh IG and Prof. Basavaraj Soratur

11. “**Trivia**”

Dept. of ECE conducted one more fun filled event “**Trivia**” , It had five rounds.

- Round1: Cup kamal,. Round2: Guess what
- Round3: Balloon balancing. Round4: 3 Legged race
- Round5: Jio panipuri

A total of 26 teams from different colleges participated in the event.

Coordinators : Prof.Maltesh IG and Prof. Sunil B

12. “**Unnat Bharat Abhiyan (Village Survey)** “

Prof Shashidhar P K and Prof Mahapurush & Krishna Deshapande organized “**Unnat Bharat Abhiyan (Village Survey)** “ **under Social Service (UBA) on 15th April 2019**

13. **One day Industrial Visit to National Academy of Skill development (NASD) and GTTC Dandeli**

One day Industrial Visit to **National Academy of Skill development (NASD)** and **GTTC Dnadeli** was organized by **Dr. Subhas Meti** on 8th may 2019 and 54 final and prefinal year ECE students were participated.

10. STUDENTS ACHIEVEMENTS

- 3rd Place in **Paper presentation** at National Level event organized by SKSVMACET, Lakshmeshwar.
- Total 6-project batches from SKSVMACET presented their project work in the form of paper.

Staff Achievements

- **Subhas A. Meti and V G Sangam**, “Enhanced Auto Associative Neural Network using feed forward neural network; An Approach to improve performance of fault detection and analysis” International Journal of Data Analysis Techniques and Strategies (IJDATS) –Inderscience Publishers.(In press for publishing). (Indexed- Scopus Elsevier, ACM digital library) Published in July-2019
- **Dr. Subhas A Meti** delivered the 1 day orientation on “**Lesson plan preparation as per OBE and NBA**” June 8th 2019 to inhouse faculty members.
- **Dr. Subhas A Meti** nominated as website officer of the college and necessary website layout, sub-headers and contents were submitted to principal and Tech support team.
- **Dr. Subhas A. Meti** delivered talk on “**Outcome Based Education (OBE) and Bloom’s Taxonomy**” to faculty of SKSVMACET, Lakshmeshwar on 18th May 2019.
- Dr. Subhas A Meti Attended one day workshop on “Exam reform” organised by AICTE and Gopalan college of engineering Bangalore on 8th May 2019.
- Dr. Subhas A Meti Attended 3 days Faculty development program on “**Research Funding opportunities and Proposal preparation for academician**” Organised by Department of Electronics and Communication Engineering PES Institute of Technology & Management, Shivamogga on 27-29 April 2019.
- Subhas A. Meti and V G Sangam, “PCA Based Optimization using Conjugate Gradient Descent Algorithm; An approach towards efficient energy consumption in WBAN”. International Journal of Advanced Computer Science and Applications (IJACSA), Vol. 8, No.8, pp 75-82 2017 DOI [10.14569/issn.2156-5570](https://doi.org/10.14569/issn.2156-5570). (**Indexed: Thomson Reuters, Web of Science and IET Inspec direct**)
- Paper titled as “Image Reconstruction using Compressive Sensing Technique for Hardware Implementation” **Published in IEEE conference**, Organised By GSSSIETW Mysuru.
- LitPaper titled as “Circuit level leakage minimization techniques in low power VLSI circuits: erature Review” **Published in IJRSET** .
- **Prof. Santosh Bujari** Attended one week FDP organised by NIT Warangal, Sponsored by Gov. Of INDIA on 23rd to 29th November 2018.
- **Prof.Krishna G Deshpande** participated Youth Red Cross “One Day orientation Program and Anual meet” organized by VTU on 3rd September, 2018.
- **Prof. Basavaraj S** Attended KSCST final round competition , Sponsored by Gov. Of Karnataka on 10th & 11th August 2018.
- **Mr.Mahantesh M(Instructor)** participated FDP on web design and Application Organised By SKSVMACET on 23rd to 25th August 2018
- **Ms. Priya M(Instructor)** participated FDP on web design and Application Organised By SKSVMACET on 23rd to 25th August 2018.

12. Student Trainings

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13. Staff Trainings

1. Dr. Subhas A Meti Attended one day workshop on “Exam reform” organised by AICTE and Gopalan college of engineering Bangalore
2. Dr. Subhas A Meti Attended 3 days Faculty development program on “**Research Funding opportunities and Proposal preparation for academician**” Organised by Department of Electronics and Communication Engineering PES Institute of Technology & Management, Shivamogga
3. Prof. Krishna D Two day national conference on “Gyan Sangam-2019” KLE Technological University Hubballi.
4. Prof. Kiran K Attended 3 days Faculty development program on “ Analog and digital System design cadence using cadence tool organised by Dept of E&C, GSSSITEW, Mysuru, in association with Entuple Tecnologies Bangalore
5. Prof. Sunil B Attended Two week (15 days) Faculty Development Programme on “Entrepreneurship for Academicians” at SDM Institute of Technology, Ujire
6. Prof. Vidyavati Attended one week short term training program on “IoT & DSP Application” organised by Department of E&C Engg, Belagavi
7. Prof. Basavaraj S Received certificate of appreciation from Agastya International foundation for “Support rendered in mentoring the students from B P Indian Public School, Malleshwaram Bangalore
8. Miss. Priya Mulagund ha attended and successfully completed TEQIP1.3 sponsored 1 week workshop on Preventative and breakdown maintenance of Electronics equipment for technical staffs.

14. Placement Details

Sl.No	USN	Students Name	Company Name
1	2KA15EC022	Manjunath Basari	Alpha9 Marine
2	2KA15EC048	Venugopal V Chavate	
3	2KA16EC413	Prasad Divate	
4	2KA16EC416	Srishail Chikkamath	
5	2KA16EC400	Akash S Pattar	
6	2KA15EC048	Venugopal V Chavate	Tech Fortune
7	2KA15EC004	Akhila Nagaraj Airani	ABC
8	2KA15EC032	Ramya R Joshi	Silver Peak ,Japan
9	2KA15EC007	Apoorva Navalgund	
10	2KA15EC020	Kavana S Haveri	
11	2KA15EC015	Geetanjali Hiremath	
12	2KA15EC021	Laxmi M Palled	Aryan Solutions
13	2KA15EC020	Kavana S Haveri	
14	2KA15EC004	Akhila Nagaraj Airani	
15	2KA15EC048	Venugopal V Chavate	
16	2KA15EC047	Vasudha Basavaraj Dadegal	
17	2KA15EC015	Geetanjali Hiremath	Q-Spiders
18	2KA15EC036	Sweta G Holi	
19	2KA15EC007	Apoorva Navalgund	
20	2KA15EC020	Kavana S Haveri	
21	2KA15EC014	Ganga Shivanand Hampiholi	
22	2KA15EC036	Sweta G Holi	
23	2KA16EC400	Akash S Pattar	Nandee Networks
24	2KA16EC419	Vinay Basappa Hugar	
25	2KA16EC406	Kirankumar Hadimani	
26	2KA16EC407	Kirankumar Nalawad	
27	2KA16EC402	Basavaraj Sharanappa Dummad	
28	2KA16EC414	Prasad T Chabbi	
29	2KA15EC031	Ramesh Gadigennavar	
30	2KA16EC416	Shrishail Chikkamath	
31	2KA15EC002	Abishek Kengapur	
32	2KA16EC413	Prasad Divate	