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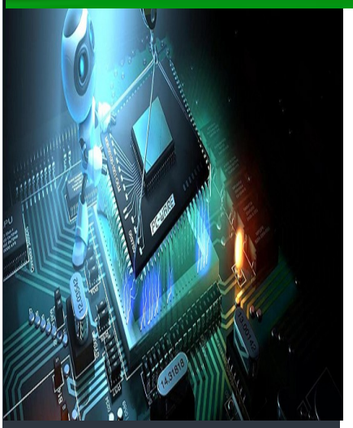
SVERIs College of Engineering (Polytechnic), Pandharpur.

Department of Electronics and Telecommunication Engineering

ELECTRA TIMES

Electronics Trends And Applications



Human-Computer Interaction (HCI)

The world of computing has evolved really fast with passing time. From data centres, we moved to the cloud, then to the edge and we are sure that much more is still going to come.
We got introduced to 3D printing and virtual and augmented reality applications, some of which completely changed our lives
From the AI assistant on our phones to that speaker looking thing that can turn off the lights of your room on one single command of yours,
technology has no barriers nowadays. But in between this technical revolution we must admit that the interaction and communications with technology is not always that easy, remember getting annoyed because of your phone's autocorrect feature

By Mr. Kedar S. S.

Upcoming Events

In this semester we are planning for our annual student event TALENT HUNT 2K23

In TELENT HUNT students are going to organize various events like Robo-racing, Paper presentation, Quiz contest and Circuit Sudoku. Winner will awarded with trophies and certificates. Last year 200 students were participated in this events. Through this we got success in front of motivating our student to participated in competitive events, not only for our institute but also national as well as international competitions.

Industrial visit for 2nd and 3rd year students

We are planning industrial visits for our students to Akashwani Kolhapur and ApTron Tech Satara, SM technologies Pune and BSNL Pune.

Expert Lecture & Workshops

We plan expert lecture over the syllabus which conducted by industry experts for students as well as worksops are planned on arduino and PCB designing.

Student Development

Department conducted short term professional courses in that we take 10 to 15 days workshop for student. Last vacation we conducted workshop for Robotic and Arduino programming . Upcoming vacation we plan for Arduino and Raspberry Pi project development and PCB Design. Also planning for implant training for students.

"Electronic communication is an instantaneous and illusory contact that creates a sense of intimacy without the emotional investment that leads to close friendships."

Editorial

It gives us great pleasure to present the 68 volume and first issue of our departmental newsletter "**ELECTRA**", which gives us the opportunity to focus the achievements in our department and new trends in Electronics and Telecommunication field.

I am thankful to all the students and faculties who have contributed during the preparation of this newsletter. We have tried our best and given positive efforts, expecting creative responses from everyone to continue the flow of knowledge through this newsletter.

Student Coordinator
Ms.Shete Samruddhi
(TYEJ)

Celebrating 75th INDEPENDENCE DAY

About Department

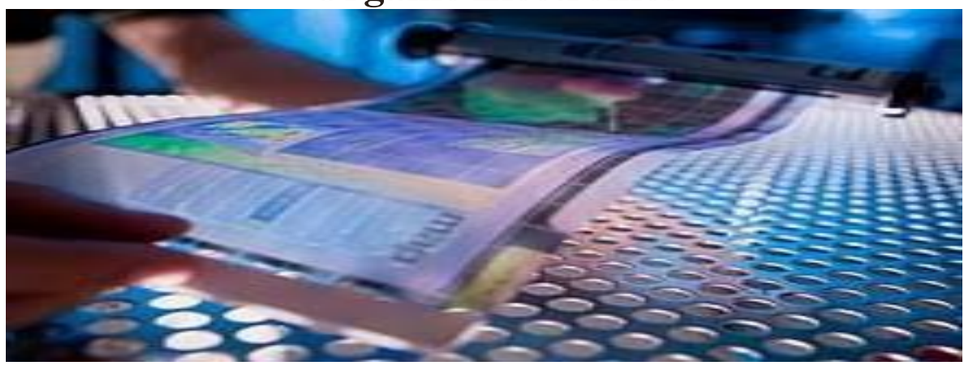
Electronics And Telecommunication Engineering Departments had been start in 2008, with intake of 60 . Our departments have 6 well-equipped laboratories and 12 well qualified teaching staff. We have established the association " Talent hunt " in which we conduct various activities like Quiz competition, Power point presentation, Robotics, Poster presentation, LAN gaming etc. This departments have organized various expert lectures and workshops like Embedded System, Arduino, Robotics, PLC and PCB Designing for the overall development of students. This type of activities are used to get better result in academic and overall development of students.

VISION
To be recognized as one amongst the best Electronics & Telecommunication Engineering Department in Maharashtra to fulfil the changing needs of the industry along with environmental and social aspects.

MISSION
1. To impart value based technical education in electronics and telecommunication engineering.
2. To develop technical knowledge of students.
3. To inculcate various skill sets of electronics and telecommunication among the students.
4. To make students ready for lifelong learning.

In this issue

Organic Electronics



Organic Electronics offer massive advantages over traditional inorganic electronics. They are cost-effective, flexible, indissoluble, optically transparent, lightweight, and consume low power. In addition, the rise in awareness for sustainable development and eco-friendly manufacturing attracts manufacturers to opt for organic electronics. was never commercially launched.
Designing circuits with microbial components or producing devices with biodegradable and recyclable materials is seen to be the next electronics manufacturing trend.

Japanese startup Flask develops materials for application in various products such as organic displays, lighting, and solar cells. Examples of materials include electron transport materials, electron injection materials, light-emitting materials, coating materials, and organic solar cell materials
Using these materials allows device manufacturers to meet customer demands like high efficiency, low power consumption, high reliability, and adaptation to next-generation materials.

By Ms.Chidrawar S.B.

What will be the scope of ECE after 2020 in India?

Year 2020

We have 4G, 5G services. Data rates are going up to 10-100 Gbps. Current generation general purpose microprocessors have quad cores, octa cores. Artificial intelligence and virtual reality has recently developed. Internet of things, gesture controlled home automation, and many more things have evolved uptill now.

Year 2022

Our needs and demands will increase. Earlier we were happy with data rates of 10 Gbps, but now we will need be needing more. 6G will arrive in the market. Requirement of faster processing will lead to evolution of 16-32 core processors. Artificial intelligence virtual reality will reach to new heights. Robotics will give us Butler bots, new companions to help us in daily work. There is no end to technology. It will keep on flourishing. There will always be a great score in this field

JOB OPPORTUNITIES FOR ELECTRONICS ENGINEER

Private Sectors: Tata tele services, Vodafone, Samsung, Intel, LG Electronics, Wipro, Cisco, Dell India, Reliance Infotech, Red pine, General Electric, Texas Instruments.

Public Sectors: Bharat Electronics Ltd. (BEL), Bharat Heavy Electricals Ltd. (BHEL), National Aluminum Company Ltd. (NALCO), National Thermal Power Corporation (NTPC), POWERGRID, HPCL, BSNL.

Latest ECE Technologies to learn are : Robotics, Internet of Things (IOT), Artificial Intelligence/ Machine, Learning, Drone Development, Mechatronics Smart Energy Systems,, Automation Technologies.

By Ms. Jagtap S. B.

DEPARTMENTAL ACHIEVEMENTS IN ACADEMIC YEAR 2021-22

What makes a good eletronics and communications engineer?

- First, you should understand what is Electronics. This may sound silly. But try to explain to someone who does not know anything about electronics, without using the terms "Diode", "Transistor","Circuit","IC","Microprocessor". etc.
- Second, Electronics is a branch of Electrical. So try to be strong in Electrical Fundamentals
- Third, Understand the Basic Transistor Circuit.
- Fourth, understand the Digital Circuit thoroughly from AND, OR, NOT gates to Microprocessors.
- Fifth, Understand C language thoroughly. It is a simple set of rules defined by Dennis Richie.

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You can master C language with in a shortest time.

- Sixth, Master C programming skill. This is the most essential skill for the ECE students today. Without this skill you will find it difficult to enter into electronics core companies.
- Seventh, Buy a Microcontroller kit and apply the C programming skill to do good electronic projects by yourself without copying a single line of code from net/book/ friends.
- These 7 steps will make you to eligible get a job in Electronics industry. Try to understand that in Core Industries Basics is the KING. So always

By Ms.Yadav S. S.

STUDENTS

Sr. No.	Name of Student	Subject	Marks
1	JAGADALE ADITYA SANJAY	AME	98/100
2	SURVASE ANKITA DHANANJAY	AME	98/100
3	GHODAKE RUTUJA LAHU	AME	98/100
4	BILE PRATIKSHA SHIVAJI	AME	97/100
5	JAGADALE ADITYA SANJAY	EEM	96/100
6	KULKARNI SHRADDHA RAMKRUSHNAHARI	LIC	96/100
7	GORE GAYATRI SANTOSH	ONS	95/100
8	KULKARNI SHRADDHA RAMKRUSHNAHARI	BPE	95/100

FACULTY

- Our staffs had gone through the various trainings at Kannad Electromation, Sangali and various in house short term training programs .
- Four staff of our department are pursuing MTech & Three staff have completed ME in various field
- All staff are involved in R & D activities and in the verge of completion of several projects sponsored by agencies like IEI Kolkata.

DEPARTMENTAL RESULT FOR A.Y. 2021-22

Sr. No.	Name of Student	% Marks	Class
1	JAGADALE ADITYA SANJAY	89.63	1st year
2	GHODAKE RUTUJA LAHU	88.46	1st year
3	SHINDE AJINKYA PANDURANG	88.23	1st year
1	KULKARNI SHRADDHA RAMKRUSHNAHARI	93.57	2nd year
2	SHETE SAMRUDDHI KASHINATH	88.63	2nd year
3	MODI SOHAM PRASHANT	88.23	2nd year
1	PATHAN SURAYYA MAKBUL	92.16	3rd Year
2	TONAGE VAISHNAVI ARVINDKUMAR	91.99	3rd Year
3	GORE GAYATRI SANTOSH	90.58	3rd Year

HIGHLIGHTS

- Department of Electronics and telecommunication Students form Techno-Spark Students Club .
- Under this club they have made 100+ Projects .
- Final Year Student Published 5 Papers in national Conference on "Recent trends in Science and Advances in engineering 2022".
- Out of this One Paper i.e "Egg Hatching Incubator" got First Prize .
- In Last Semester Students Visited to Nebulas Kolhpur, Aptrontech Satara,Worldwide Broadband Pandharpur & Worldwide Electronics.

SOFTWARE USED FOR ELECTRONICS.

- MATLAB
- Xilinx ISE
- Altera Quartus
- Code Composer Studio
- HFSS
- OptSim
- Commsim
- µVision IDE
- Emu8086
- Proteus Design Suite
- PSpice
- Agilent Advanced Design System