Funding Projects Proposed to Department

VOICE OVER INTERNET PROTOCOL USING ARDUINO

This project is sponsored and funded by the institution of engineers kolkata .

The project named as Voice Over Internet Protocol Using ARDUINO will work to establish telephone communication with the help of internet, To call rates reduction, Long distance communication making easy, Audio visual conferencing establishment over internet, To make fun with telephone communication, Utilize established network for better productivity

* ARM7 BASED HOME AUTOMATION SYSTEM USING INTERNET OF THINGS

This project is sponsored and funded by the institution of engineers kolkata .

The project named as ARM7 Based Home Automation System Using Internet Of Things will work to implement security controller, Temperature controller, Gas leakage monitoring, Automatic certain movement, All electronics devices on/off .

Team Members:

Prof. Mr. Kumbhar M.A.

Prof. Sawant N.S.

Prof. Valte P.S.

Upcoming Events

In this semester we are planning for our annual student event CENTIA

In CENTIA students are going to organize various events like Robo-racing, Puzzle, Quiz contest and LAN Gaming. 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 Satara and Hem Electronics pvt. Ltd. Miraj and Welspun Energy Solapr power generation plant located at Mangalwedha.

Expert Lecture

We plan expert lecture over the syllabus which conducted by industry experts for students.

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 Embeded System and PLC programming . Upcoming vacation we plan for arduino project development and PCB Design.

"Becoming a Electronics Engineer means

Finding new era in world of technology and Communication

with out this world is nothing

Editorial

It gives us great pleasure to present the 4 volume and second issue of our departmental newsletter "**ELETRA"**, which gives us the opportunity to focus the achievements in our department and new trends in Electronics and Telecommunication filed.

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.

Mr. P. S. Valate
Student Coordinator
Ms. Katkar Pooja
(TYEJ)

Volume 4
ISSUE
02
January
2017

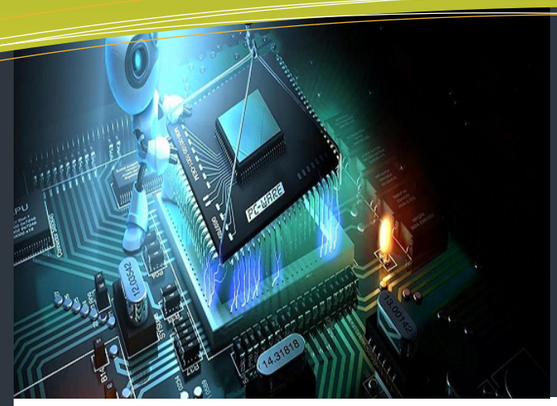
Celebrating 68th Republic Day

SVERIs College of Engineering (Polytechnic), Pandharpur.

Department of Electronics and Telecommunication Engineering

ELETRA TIMES

Electronics Trends and Applications



In this issue

About Department

Electronics And Telecommunication Engineering Departments had been start in 2008, with intake of 60 . Our departments have 6 well-equipped laboratories. We have established the association " CENTIA " 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, 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.

Mr. M. A. Kumbhar
HOD

IoT

- The simplest IoT technology passive RFID tagging is already widespread in retail, transit ticketing and access control. Near-Field Communication (NFC) is now included in newer smart phones, enabling applications such as contactless payments.

More complex M2M systems can send information over cellular networks. Examples include electricity meter readings sent to energy companies and car airbag deployment notifications sent to emergency services. Literally hundreds of millions of M2M systems are being deployed around the world.

IoT technical standards have evolved from a variety of different applications and stakeholders with different aims and requirements, and more work is needed to integrate different standards frameworks. A uniform network of "things" is unlikely to develop in the medium term. Smart meters are unlikely to communicate directly with heart-rate monitors, or recipe planners. Some networks will use public infrastructure, others will be entirely private. Some applications will have high bandwidth and interactivity requirements (such as video surveillance), others may focus on transferring short bursts of information (such as smart meters).

For IoT to become a truly ubiquitous technology, the cost of tags, sensors and communication systems need to fall to a level where they are a very small fraction of the total costs .

By Mr. Sawant N. S.

ELECTRONICS AND TELECOMMUNICATION ENGINEERING REQUIRED SKILLS

These professionals may work in nearly every industry such as commercial, industrial, military or scientific companies. Job opportunities are available in both software and electronics companies. One may also enter into research and development.

Candidates have ample opportunities in this field. Electronics and Communication specialists can work in both private and public firms. A degree in this field develops candidate's analytical and programming skills, which makes you compatible for even software companies

Upon completion of the degree, candidates can choose to work in consumer electronics, electricity generation and distribution, transportation, aviation and avionics, computer applications, radio and television, telecommunications, manufacturing and offshore industries.

Electronics and Communication Engineers are acquired by top recruiters (both private and government) like DMRC, Siemens, Motorola, Intel, Texas Instruments, BEL, ISRO, DRDO, Accenture, Wipro, HCL Technologies, nVIDIA, Samsung, Tech Mahindra, Infosys, TCS, Conexant, MTNL, AIR, BSNL, Indian Air force, Indian Navy, Railways, Bharat Electronics Ltd and Flextronics and

FEW FIELDS WHERE ELECTRONIC ENGINEERS GET PLACED ARE

In medical field- Almost all medical equipments are electronic and hence for the installation and maintenance of those equipments.

In automobile- The speed dial, air bag systems etc are all based on electronics.

In modern equipments- For the production, maintenance and repair of computers, laptops, tabs, mobiles etc.

In communication Radiotelephones etc.

In government and private companies- Installation, operation and maintenance of electronics equipments and systems.

Manufacturing- PCB, IC etc.

Electronic industries- Design and fabrication of devices, embedded systems, electronic equipments etc

By Mr. Valate P. S.

What Electronics and telecommunication Engineer really need to know.

Electronic communications engineering is the utilization of science and math applied to practical problems in the field of communications. Electronic communications engineers engage in research, design, development and testing of the electronic equipment used in various communications systems. cellular telephones, radios and television. It is due to electrical engineers that we enjoy such modern communication devices as cellular telephones, radios and television.

Electronics and electrical engineering diploma programs with communication concentrations are typically offered from the diploma to the doctoral level. These programs prepare students for careers as systems engineers, research engineers, controls engineers, communication engineers and electronic engineers, as well as researchers and university professors. The programs are rigorous with an emphasis in math and science. Students study topics such as wireless, digital, data and fiber optic communications. If you'd like to learn more about this career field Students should look for these programs.

Electronics and communication engineering course give enormous job opportunities in electronics and software companies. All electronic devices need software interface to run and come with one other or other device controlling programs architected and developed by electronics and communication engineering. It also gives great opportunities for research and development, as everyday consumer need new devices to support them in daily life…….

"Becoming a electronics engineer means you must actively take the reins in the world of communication"

By Mr. Kumbhar M.

Departmental Achievements in Academic Year 2016-17

Students

Sr. No.	Name of Student	Subject	Marks
1	MS. ATAR M A	English	94
2	MS. GEND P N	English	90
3	MS. ATAR M A	Basic science	100
4	MS. METKARI D B	Basic science	91
5	MS. GEND P N	Basic science	100
6	MR. KALE S D	Basic science	95
7	MS. GANGEKAR V S	Basic science	94
8	MS. GEND P N	BMS	93
9	MS. PATIL J S	BMS	95
10	MS. MARAL S S	BMS	100
11	MS. SHAHANE M M	CHN	46/50

Faculty

- Our staffs had gone through the various trainings at prasar bharti pune and IIIT Mumbai for short term training and photovoltaic power generation.
- Four staff of our department are pursuing 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. 2016-17

Sr. No.	Name of Student	Marks %	Class
1	MS. GEND PAYAL NAVNATH	95.54	1st year
2	MS. ATAR MINAJ ALTAF	93.08	1st year
3	MS. PATIL JYOTI SURESH	89.54	1st year
1	MS. RANDIVE ASHWINI BRAMHADEV	83.88	2nd year
2	MS. KORAPE VAISHNAVI SANJAY	83	2nd year
3	MS. KOKIL SIDDHI SANTOSH	82.38	2nd year
1	MS. KATKAR POOJA KISAN	87.67	3rd Year
2	MS. KATKAR ANJALI PANDURANG	84.44	3rd Year
3	MS. YADAV BHUMIKA SUNIL	83.56	3rd Year

EYE ON IT

Technologies developed by DRDO Electronics Dept. Govt. of India.

- Battlefield Surveillance Radar
- EOCM-Class Laser System
- 3D-CAR
- Revathi
- Weapon Locating Radar
- Sangraha
- Samyukta
- Antenna Systems
- Communication Systems
- Briefcase SATCOM Terminal
- Sectel
- Sujav
- Integrated Weapon System Simulation
- Multi-Detector Temography System
- Laser Designator PRF Code Recognition Device
- Palmtop Green Microchip Laser Module
- Passive Q-Switching
- Threshold Detector

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