

COMPLETED OF PROJECTS SPONSORED BY INDIAN INSTI-TUTE OF ENGI-NEERS

Project Name : Arm7 based home automation system using loT

Fund Received: Rs-20 K

Status: Completed

Coordinators: Mr. Kumbhar M. A.

Project Name : Voice over internet protocol using arduino.

Fund Received: Rs-30 K Status: Completed

Coordinator: Mr. Valate 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 and industrial visited for our students to Akashwani Kolhapur , Hem Electronics pvt, Ltd, Mirai and Aptron Tech Satara.

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 2 to 3 days Arduino project development and PCB Design and undergone 6 week industrial in-plant training program.

EDITORIAL

It gives us great pleasure to present the Forth 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.

Mr. M. A. Kumbhar



Volume 7 ISSUE

August 2019

Celebrating 73rd

ABOUT

ments have 6 well-

equipped laboratories. We

association " CENTIA " in

which we conduct various

activities like Quiz

competition, Power point

mescutation. Robotics.

Poster presentation, LAN

gaming to providing plat-

The department have

organized national level

To gain hands on experi-

en about new trends in

expert lectures and work-

shops like Embedded Sys-

tem. PLC and PCB Design-

ing for the overall devel-

opment of students. This

type of activities are used

to get better result in aca-

demic and overall devel-

Our students and faculties

are also developing

opment of students.

istry through various

event "TALENT HUNT"

form for hidden tallent.

established the

Department of Electronics and Telecommunication Engineering

ELETRA TIMES

Electronics Trends and Applications



In this issue

Smart LEDSP.1

A self-parking chairP.2

5G to open up new horizons P.3

What ENTC Engineer need to know P.4

Departmental Activities and achievements P.6

Upcoming Events P.6

SMART LEDS

Multi-Function LED Lamps with Built-In Wireless Chargers has examined LED lighting from the standpoint of safety, light

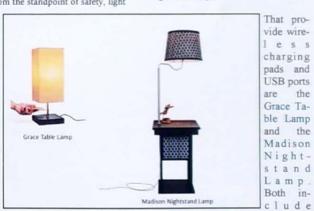
SVERIs College of Engineering (Polytechnic), Pandharpur.

quality. energy effi ciency, and sustainable design, so now let's take a look at the features and underlying technology of s o m e commercial LEDbased

lamps.

Brigh tech manufactures LED lighting systems for homes and small offices. Several of its products feature added conveniences such as USB ports and wireless pads that charge cell phones, tablets and other battery-powered devices. (As in diagram 1), as the others share the same basic technology.

Features and Specifications-Two Brightech lamps.



LED bulbs that screw into an E26 base (the same socket as a standard incandescent light bulb) and provide 800 lumens of light about the same as a 60W incandecent

By Ms. Patil P.T.(TY EI)



Mr. Kamagond S. G

5G to open up new horizons

more than those provided by today's cellular and cable operamobile 5G are still far away from being publicly available. the 5G products and services showcased at CES 2019 provide a glimpse into what's in store. Verizon unveiled its 5G Ultra Wideband that will alter the virtual gaming landscape with the ability to deliver heightened virtual reality experiences. Ameri-can chipmaker Intel revealed its latest 10-nanometre-based netwhich is codenamed 'Snow Ridge that has specifically been developed for 5G wireless access and edge computing. Chipmaker Qualcomm devoted a large portion of their display in showcasing what 5G could poyear that are enabled with its Snapdragon 855 microprocessor and X50 cellular modem that will be easy to connect to the upcoming super-fast 5G wireless networks. Finally, Samsung became the first tech giant to showcase their 5G smartphone prototype at the CES 2019. AT&T announced that it is working on the applications of 5G by partnering with hospitals



WHAT ELECTRONICS AND TELECOMMU-NICATION ENGINEER REALLY NEED TO KNOW.

Self-driving and all-electric vehicles

As technology firms continue to transform the tech shows and conferences have emerged as the destination of choice for automobile companies. This year's CES gave tech, some of which could be seen in the not-so-distant future. Some of the innovations unveiled at the CES this year were autonomous cars, electric vehicles, large-screen infotainment systems, walking cars, talking cars, and even flying taxis! Aptiv - a global automotive solutions company displayed their autonomous driving technology in partnership enced self-driving taxi rides earlier models. Byton, an electhat has swapped a

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 technology Engineers that we enjoy such modern communication devices as cellular tele

phones, radios and television.

Electronics 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 prog

rams are rigorous with an emphasis in math and science. Students study topics such a 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

> tunities in electronics and software companies. All electronic devices need software interface to reland come with one other

enormous job oppor-

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

Mr.Valte P.S.

DEPARTMENTAL ACHIEVEMENTS IN ACADEMIC YEAR 2018-19

STUDENTS

SR. No.

· Mr. KALE SURAJ DASHRATH secured 1st rank by securing 88.71 marks in final year

SR. No.	NAME OF STUDENT	SUBJECT	MARKS
1	TAKBHATE VIJAY DIPAK	AME	100
2	RANDIVE AMRUTA BRAMHADEO	AME	99
3	PARCHANDE SAURABH SUDHIR	AME	98
4	MULANI AYESHA NAVAJ	AME	97
	TAKBHATE VIJAY DIPAK	EEC	97
6	GORE GAYATRI RAMCHANDRA	CPR	97
7	MHAMANE VAISHNAVI RAMESH	LIC	99
8	PATIL MADHURI DHANANJAY	LIC	98
9	SALUNKHE ROHINI AMBADAS	LIC	97
10	PATIL MADHURI DHANANJAY	CEL	97
11	MUJAWAR SIMRAN LATIF	MAA	99
12	MHAMANE VAISHNAVI RAMESH	MAA	98
13	PATIL MADHURI DHANANJAY	BPE	99
14	MUJAWAR SIMRAN LATIF	BPE	97
15	MHAMANE VAISHNAVI RAMESH	DCS	98
16	VARADE AISHWARYA MARUTI	DCS	97

PEPARTMENTAL RESULT FOR A.Y. 2018-2019

GORE GAYATRI R.

TAKBHATE VIJAY DIPAK

PATIL MADHURI DHANANJAY

MHAMANE VAISHNAVI RAMESH

MUJAWAR SIMRAN LATIF

KALE SURAL DASHRATH

GEND PAYAL NAVNATH

GAIKWAD RUTUIA KUMAR

RANDIVE AMRUTA B.

NAME OF STUDENT

FACULTY

- · Our staffs had gone through the various trainings at prasar bharti pune and IIIT Mumbai for short term training and photovoltaic generation.
- · Three staff of our department are pursuing ME in various field.
- · All staff are involved in R & D activities and have completed the project sponsored by agencies like IEI Kolkata.
- · Faculty are attended the workshop on mind spark
- · Faculty are attended the workshop on Institute of satellite Telecom.

CLASS

1st Year

1st Year

1st Year

2nd Year

2nd Year

2nd Year

3rd Year

3rd Year

3rd Year

MARKS %

95.25%

93.75%

93.63%

96.89

96.44

96.33

88.71

87.06

86.47

EYE ON IT

TECHNOLOGIES DEVELOPED BY DRDO ELECTRONICS DEPT. GOVT. OF INDIA.

·Battlefield Surveillance

- EOCM-Class Laser System •sD-CAR
- •Revathi
- •Weapon Locating Radar
- Sangraha
- Samyukta
- Antenna Systems
- •Communication Systems
- Briefcase SATCOM
- Terminal
- ·Sectel
- ·Sujav
- •Integrated Weapon System Simulation
- ·Multi-Detector Temography
- Laser Designator PRF Code
- Recognition Device •Palnitop Green Microchip
- Laser Module ·Passive O-Switching
- •Threshold Detector

SOFTWARE

USED FOR ELECTRONICS.

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

