

SUMEER 2018

Department of Electronics and Telecommunication Engineering

TRANSFORMATION

...a News Letter

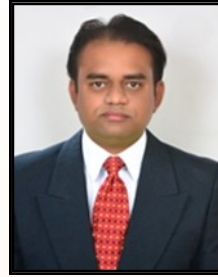


Shanti Education Society's
A.G. PATIL POLYTECHNIC INSTITUTE, SOLAPUR

In this issue

- **Academic performance, co and extra curricular activities**
- Expert Lectures, Industrial Visits
- **Workshop Conducted ,MoU, Faculty achievements and Other Achievements of Faculty**
- **“Advanced Exam Object Management System ”**
- **“Raspberry PI based reader for Blind”**
- **College Intake Information**

WELCOME



It gives me immense pleasure to introduce you to this next edition of newsletter of department for the academic year 2017-18. Our department has got excellent grade from external monitoring committee of MSBTE.

As per our vision our team strive to persistently improve educational environment in our department. We are always engaged in the activities for overall development of our students with various aspects like technical education, self-motivation, ethics and personality.

Vision:

To provide excellent quality education in the field of Electronics and telecommunication engineering to create professionals for meeting the demands of industry, business and society.

Mission:

- M1:- To equip students with strong foundation of knowledge, skills, attitude and team spirit required for a professional.
- M2:- To prepare students for a bright career, entrepreneurship in the field of Electronics Engineering.
- M3:- To inculcate responsibility towards Environment and society.

Program Educational Objectives (PEOs):

- To provide students with basics in electronic engineering.
- To develop an ability to apply electronic systems to function effectively.
- To work for society with professional ethics, team spirit, effective communication and lifelong learning skills.

TOPPERS

FIRST YEAR



Mr. Sutar Sagar
First (F.Y. 87.71%)



Ms. Sarwadkar Megha
Second (F.Y. 86.57 %)



Mr. Mashalkar Pruthviraj
Third (F.Y. 82.75%)

SECOND YEAR



Ms. Kambale Priya
First (S.Y. 86.41%)



Ms. Nagarkar Rakshata
Second (S.Y. 83.51 %)



Ms. Chavan Sonali
Third (S.Y. 81.1%)

THIRD YEAR



Ms. Birajdar Varsha
First (T.Y. 89.12%)



Ms. Pethe Ashwini
Second (T.Y. 88.41%)



Mr. Mashale Shivraj
Third (T.Y. 87.59%)

Co-Curricular and Extra Curricular Activities

Sr. No.	Name of student	Type of Competition	Remark
1	Prayag Sagar	E-Phlox	Winner
2	Aishwarya Bansode	Poster Presentation	Runner up
3	Varsha Birajdar	Quiz	2 nd Prize
4	Savita Kale	Quiz	2 nd Prize
5	Ashwini Pethe	Robo Race	3 rd Prize
6	Ashwini Pethe	Quiz	3 rd Prize
7	Nikita Yalgunde	Robo Race	3 rd Prize
8	Nikita Yalgunde	Quiz	3 rd Prize
9	Shivsharan Supriya	Robo Race	3 rd Prize
10	Swapnil Bhavarthi	Project idea	3 rd Prize
11	Rahul konda	Robo Race	2 nd Prize
12	Kiran Gurav	Robo Race	2 nd Prize
13	Swapnil Pawar	Robo Race	2 nd Prize
14.	Ayush Diwanji	Annum	3 rd Prize
15.	Ayush Diwanji	Technowave 2k18	1st Prize
16.	Ashwini Pethe	Cntrl X & Cntrl V	2 nd Prize
17.	Nikita Yalgunde	Cntrl X & Cntrl V	2 nd Prize
18.	Shweta Padnure	Circuit Making	2 nd Prize
19.	Ankita Yalgunde	Circuit Building	2 nd Prize
20.	Poornima Mashal	Presentation (PPT)	2 nd Prize
21.	Dhanashri Kalmani	Circuit Cracker	2 nd Prize

Engineer's Day



Project Competition

Industrial visit

Sr. No.	Activity	Action Taken	Place	Relevance to PO's	No. Of Beneficiaries
1	Renewable energy and its Tools	Solar Electronics, Solapur	Solapur (Industrial visit)	1, 2, 3, 4, 7, 8	30
2	Interaction with industrial process system (EAC)	Srujan Foods pvt.ltd (Parale products)	Solapur (Industrial visit)	1, 2, 3, 4, 7, 8, PSO2	49
3	Interaction with Communication System	95 MY FM	Solapur (Industrial visit)	1, 2, 3, 4, 7, 8	30



Industrial visit at solar electronics for SY EJ students



Industrial visit at 95 MY FM for TY EJ students

EXPERTLECTURE

Sr. No.	Activity	Action Taken	Resource Person with	Relevance to PO's	No. Of Beneficiaries
1.	Advanced Research Topics	Save Energy	Mr.S.C. Swami.	2,5,6,10	24
2.	Opportunities in Entrepreneurship &self-employment	Introduction to Apprenticeship &Entrepreneurship Scheme	Mr. Dhage Pradeep.	2, 6, 7 , 8, 9, 10	26
3.	Applications of Basic Electronics	“Electronics component testing and it’s Applica-	Mr. Ligade S. J.	1, 2, 3, 4	26
4.	Advanced Research Topics	Recent Trends in Technology	Mr. Muneer Sayyed	2,3,4,5,6,8,9,10, PSO1,PSO2,PS O3	76



Mr. Swami S.C. delivering lecture on “Save Energy”



Mr. Hrishikesh Vedpathak delivering lecture on “Persanality development”



Mr. Ligade S. J. delivering lecture on “Applications of Basic Electronics” for SY E&TC

WORKSHOPS



Workshop on solar energy for SY EJ students conducted by Mrs. Ayesha Shaikh Orb energy pvt.ltd.



Workshop on Portus Software for TY EJ students conducted by Mr. Ligade S. J. , H.O.D, A.G.P.I.T, Solapur

“ARDUINO BASED IRRIGATION SYSTEM”



In a country like "India" the agriculture plays the important role in the economy and development of the country. At present the framers have been using traditional irrigation technique in India through manual control in which the framers irrigate the land at the regular intervals. There are many problems associated with this type of irrigation.

Therefore solution to this problem is moisture sensors and ultra sonic sensor. The problem of power distribution provided an overview of wireless sensor network by managing the equal power distribution by using GSM network. Moisture sensor adds glory to this project as it passes only adequate amount of water to crops and soil. Ultrasonic sensor which indicate how much water in well.

The main aim of our system presenting here is to monitor the moisture content in the soil in cultivating field. Based on soil moisture, pumping motor will be automatically switch ON or OFF through relay this saves the water at same time and on the other hand the plant can get optimum level of water, so increasing productivity of crop.

Working Principle:

This project describes an application of wireless sensor network for low cost wireless control irrigation solution and monitor water content of soil based on soil moisture sensor and ultrasonic distance sensor.

By using this soil sensor, we find whether the soil wet or dry if soil is dry, then arduion will check the condition of ultra sonic sensor if both condition are satisfied then motor will be on through relay. Here soil sensor and ultrasonic sensor will give the status of the soil as well as water reading will display on LCD. If soil is wet,pumping motor will not pump the water. In this system main controlling device is arduino uno. The pumping motor will pump the water into the field by until field is wet which is continuously mointer by the arduino.

Group Members

Ms. Pethe Ashwini N.
Ms. Shivsharan Supriya S.
Ms. Yalgunde Nikita S.
Ms. Yalgunde Ankita S.

Under The Guidance Of
Mr. LIGADE S.S.

SMART HOME AUTOMATION AND ENERGY MANAGEMENT USING IOT



We can see a person standing in front of our house from electricity board, whose duty is to record the readings of energy meter and handover the bills to the owner of that house every month. According to that reading we have to pay the bills. The main drawback of this system is that person has to go area by area and he has to read the meter of every house and handover the bills. Many times errors like extra bill amount, or notification from electric board even though the bills are paid are common errors. To overcome this drawback we have come up with an idea which will eliminate the third party between the consumer and service provider, even the errors will be overcome. In this paper the idea of smart energy meter using IoT and Arduino have been introduced. In this method we are using Arduino because it is energy efficient i.e. it consume less power, it is fastest.

Working Principle:

In this project energy meters which is already installed at our houses are not replaced, by doing small modification on the meter can change the existing meters into smart meters. The use of GSM module provides a feature of notification through SMS. One can easily access the meter working through web page that we designed. Current reading with cost can be seen on web page of the consumer. Automatic ON & OFF of meter is possible. Threshold value setting and sending of notification is the additional task that we are performing

Key Words: Smart Energy Meter, Electric board, the advancement of Automation technology, life is getting simpler and easier in all aspects. In today's world Automatic systems are being preferred over manual system. With the rapid increase in the number of users of internet over the past decade has made Internet a part and parcel of life, and IoT is the latest and emerging internet technology.

Group Members

Mr. Bhavarthi Swapnil S.
Mr. Harkare Imad A.
Ms. Birajdar Varasha R.
Ms. Birajadar Smita N.
Under The Guidance Of
Mr. Bagban S.R.

SOLAR POWERED MULTIPURPOSE SMART BAG



Nowadays there's revolution in field of technology and the world is developing at faster pace. Due to changes in lifestyle and surroundings, the needs of the people are changing day by day thus new inventions and innovations come into picture. As we use smart phones it drains a lot of battery due to use of high graphics and internet etc. So there is a need for charging throughout the day but we can't roam with a switch board here and there and also power bank available in market are costly. So the idea of charging our phones using solar energy came into our mind and we made a system which provides charging facility. Also security has become a prime concern due to rise in criminal activities like kidnappings rapes etc thus safety feature is necessary. So we developed a panic button which uses GPS and GSM system to intercept and message our location to the users thus helping us and making us more secure. So such several day to day problems were noticed by us and we decided to make a all in one solution and we made this "SOLAR POWERED MULTIPURPOSE SMART BAG" having several applications .In this smart bag, front part of bag is covered with solar cell which will continuously produce power through day light while we travel and it will have a rechargeable battery for latter an usage like charging mobile phone or Tab etc. Bag will have a One main feature of this bag will be a panic button. If it gets pressed by user during panic condition like getting kidnapped or rape attempt or any other emergency, when the key is pressed it will send the draft message to the user.

Group Members

Ms. Prerana Shivsharan M.
Ms. Dhanshri Shrikant K.
Ms. Aishwarya Suresh B.
Mr. Rohan Shailendrasing J.
Under The Guidance Of
Mr. Ligade S.S.



Shanti Education Society's
A. G. PATIL POLYTECHNIC INSTITUTE

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Approved by : All India Council for Technical Education (AICTE),
New Delhi

Recognized by : Government of Maharashtra

Approved by : Directorate of Technical Education (DTE), Mumbai

COURSES OFFERED IN DIPLOMA ENGINEERING

Shanti Education Society's
A.G. PATIL POLYTECHNIC INSTITUTE, SOLAPUR
All Programs Are NBA Accredited
(Approved by AICTE New Delhi, DTE Mumbai and Affiliated to MSBTE Mumbai)

Sr.No.	Program	Intake Capacity	Accreditation Status	General Choice Code	TFWS Choice Code
1	Mechanical Engineering	120	NBA Accredited	644361210	644361211
2	E&TC Engineering	60	NBA Accredited	644337210	644337211
3	Civil Engineering	60	NBA Accredited	644319110	644319111
4	Computer Engineering	60	NBA Accredited	944324510	944324511
	TOTAL	300	For Admission Contact : Prof. Ingale - 7276080001 Prof. Sandesh - 9028583069		

