



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

VLSI WORLD

...a News Letter 2K21

Department of Electronics and
Telecommunication Engineering

Navigator

- **Academic Achievements, Co-curricular and extra curricular activities**
- **Annum 2K22 Twelfth National level paper presentation organized by MSBTE**
- **Expert lectures and Industrial units**
- **Staff Information**
- **College Intake Information**



WELCOME

It gives me immense pleasure to introduce newsletter of the Electronics and Telecommunication Engineering program for the academic year 2021-22. Our program has been “NBA” accredited and got Excellent grade from a monitoring committee of MSBTE. The program has 60 intake of students. Total _ faculties are working in our program.



As per our vision, our team strives to persistently improve the educational environment in our program. We are always engaging our students in the activities for overall development of various aspects like Technical knowledge, Skills, Attitude, Ethics, Team spirit required for a professional. So, we have conducted SAP Training Program, Entrepreneurship Awareness Camp for third year students Personality Development for all students.

Thank You,
Mr. Bagban S. R.
H. O. D.

◆ **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 professionals.
- 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 Electronics Engineering.
- To develop an ability to apply Electronics systems to function effectively.
- To work for society with professional ethics, team spirit, effective communication and life long learning skills.



ACADEMIC ACHIVEMENTS

THIRD YEAR



Mr. CHAKRE ADITYA
First (T.Y. 90.59%)



Ms. JAGTAP DIKSHA
Second (T.Y. 89.41%)



Mr. NARUNE SUYANSH
Third (T.Y. 87.53%)

SECOND YEAR



Mr. MITHA AKSHAY
First (S.Y. 86.86%)



Mr. DEVANSHU SHEKHAR
Second (S.Y. 82.75%)



Ms. KHUSHI KUMARI
Third (T.Y. 82.35%)

FIRST YEAR



Ms. PATIL AMRUTA
First (F.Y. 92.76%)










Mr. AAYUSH GUNJAN
Second (F.Y. 86.9%)

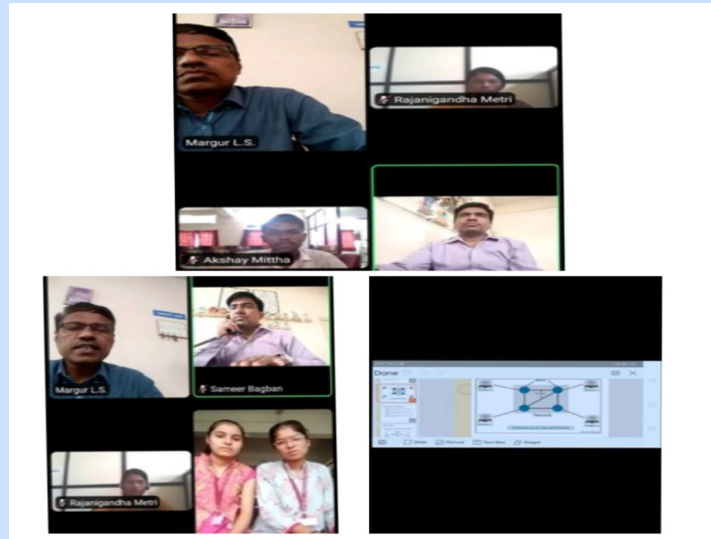


Ms. DUMMANWAR KALYANI
Third (F.Y. 84.39%)

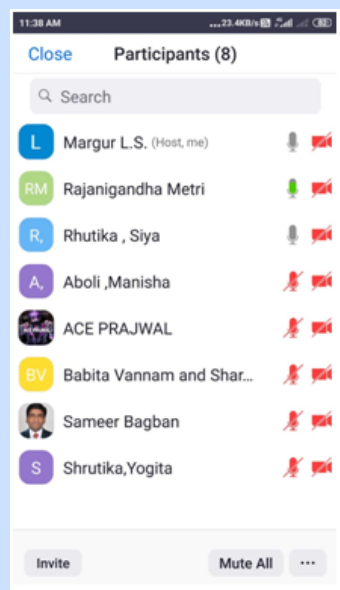
Co-Curricular and Extra Curricular Activities

Sr. No.	Name of student &Event	Picture/ Image
1	Mr. FIROZ NADAF First prize in National level Online paper competition @ AG-TECH Fest 2k22, AGPPI, Solapur	
2	Mr. YASH PANHALKAR First prize in National level Online paper competition @ AG-TECH Fest 2k22, AGPPI, Solapur	
3	Mr. PAWAR KRUSHNA Runner up in State level Online Gaming Competition @ Technohlix BMIT, Solapur	
4	Ms. GHATE PUSHPA SIDDHARAM Second prize in National level Annum 2K22 Online paper competition @ AGPPI, Solapur	
5	Ms. JAGTAP DIKSHA <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">Second Prize in National level Online paper competition @ ANNUM 2K22 AGPPI Solapur</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">100% score in State Level Online Quiz Competition @ EE DEPT(1 Ph Transformer), Sinhgad Institute Of Tech Lonavala</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">100% score in State Level Online Quiz Competition @ EE DEPT (Switchgear & Protection), Sinhgad Institute Of Tech Lonavala</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">95% score in State Level Online Quiz Competition @ EE DEPT(1 Ph Motors), Sinhgad Institute Of Tech Lonavala</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">100% score in State Level Online E-Quiz Competition @Financial Dept. Vidyanagar College, West Bengal</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">90% score in State Level Online E-Quiz Competition Electrical & Electronics Dept . Proudhadavaraya Institute of Tech., Karnataka</div> <div style="border: 1px solid black; padding: 2px;">100% score in State Level Online E-Quiz Competition Electrical Engg. Dept</div>	
6	Ms. CHAVAN AISHWARYA Consolation Prize in National Level On Line Paper Competition @ANNUM 2K22 ,AGPPI, Solapur	
7	Ms. JAGTAP PRERNA Consolation Prize in National Level On Line Paper Competition @ANNUM 2K22 ,AGPPI, Solapur	

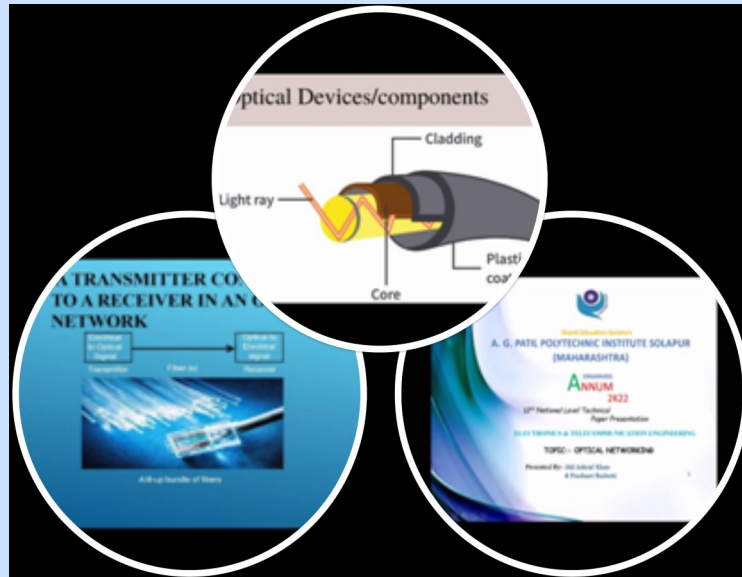
State level Paper Presentation Competition organized by MSBTE



ANNUM 2K22: Paper Presentation of Group-V



ANNUM 2K22: Participants Name



ANNUM 2K22: Paper Presentation of Group-V Slides



Paper Presentation Prize Winners



EXPERT LECTURES

Sr. No	Activity	Action taken	Resource person	Relevance to PO's	No. Of Beneficiaries
1	Green Energy based Solar System	Solar Energy	Mrs. Ayesha Shaikh	1,2,3,4,6,7	
2	IoT Based Arduino & applications	Suvi Inst	Mr. Vaibhav Bachuwar	1,2,3,4,6,7	
3	Soft Skill Training	Advocate	Adv. Smita Ayachit	1,2,3,4,6,7	



Images of Experts and Beneficiaries

Industry Visit

Sr. No.	Activity	Action Taken	Place	Relevance to PO's	No. of Beneficiaries
1	Interaction with industrial process system	TATA Communication Limited plant	Solapur (Industry visit)	1,2,3,4,6,7	
2	Interaction with industrial process system	Srujan Foods Private Limited	Solapur (Industry visit)	1,2,3,4,6,7	



Image: Industrial visit of Students

DIGITAL LOCKER WITH THREE STEP SECURITY BY USING BIOMETRIC SCANNER AND OTP



Group Members

Mr. Sourabh Kyasari
Mr. Usman Thakur
Mr. Harsh Bhivare
Mr. Aditya Chakre
**Under The Guidance of
Mr. Bagban S. R.**

In today's modern world, providing security to our confidential belongings has become a major need. To avail this, we design and execute the locker with high-security framework based on unique fingerprint, OTP and GSM innovation which can be implemented in ensured offices and homes. The system stores the biometric information and mobile number of each person while allocating the lockers for authentic use. This locker can be accessed by more than one person with full security.

The authentication of the person who wants to access the locker is very important. To avail this, a strong three level security system is designed using Biometric scanner, GSM technology for OTP and a Secret code

Working Principal:

When 12V-2A power supply is given to the Arduino board and its peripherals through the LM7805 IC, system get started and reads the program saved in memory after that it displays project name and then "SCAN YOUR FINGER" is displayed on the LCD screen, now the Digital Locker is ready. When finger is placed on the fingerprint sensor R307 it recognizes thumb impression and compares with the saved once then, Arduino recognize the fingerprint and reads the data related to it, after that it gives signal to GSM for sending the OTP to registered mobile number and also to send the message that the locker is been accessed to other members connected to the locker. After this process is clone LCD displays "Enter OTP/Secret key" after entering the OTP then "Access Generated" will be displayed on the LCD and the latch will open.

If the OTP is wrong then it will display "Access Failed" and user will lose on attempt. There are only three attempts for the OTP or user entered wrong 0-1) three times then locker will lock for specific time and user can operate the locker after that time. The red LED and green LED indicate the state of the locker i.e., whether locker is closed or open.

SMART AGRICULTURE USING IOT



Group Members

Ms. Diksha Jagtap
Ms. Vaibhavi Sopal
Ms. Tejaswini Shinde
Ms. Pushpa Ghate
**Under The Guidance Of
Mr. Ligade S. S.**

Smart farming based on IoT technologies enables growers and farmers to reduce waste and enhance productivity ranging from the quantity of fertilizer utilized to the number of journeys the farm vehicles have made, and enabling efficient utilization of resources such as water, electricity, etc. IoT smart farming solutions is a system that is built for monitoring the crop field with the help of sensors (light, humidity, temperature, soil moisture, crop health, etc.) and automating the irrigation system. The farmers can monitor the field conditions from anywhere. They can also select between manual and automated options for taking necessary actions based on this data. For example, if the soil moisture level decreases, the farmer can deploy sensors to start the irrigation. Smart farming is highly efficient when compared with the conventional approach.

Hence there is need to implement modern science and technology in the agricultural sector for increasing the yield. The ultimate goal is increasing the quality and quantity of the crops while optimizing the human labour used. Smart farming is a management concept focused on providing the agricultural industry with the infrastructure to leverage advanced technology – including big data, the cloud and the internet of things (IOT) – for tracking, monitoring, automating and analysing operations.

Working Principal:

The project is based on microcontroller which can check the temperature and humidity as well as it can check the soil moisture level for the water supply. Also, it can check the rain detections and all these parameters will be displayed on the LCD. These parameters are sent to the website through ESP8266 Wi-Fi module. User will get the online updates. Then user can monitor our farm effectively. If the water pump is ON, user can also send the updates. If it is raining then the water supply will access through farm, then motor can be turned OFF automatically. If temperature and humidity is changing drastically, user can monitor the condition. Environment as well as diseases that can occur on farm can be detected. It can also display specific medicine which is required to spray on the farm.

HOME AUTOMATION USING IoT



Group Members

Mr. Seyon Gaikwad
Ms. Janhavi Pawar
Mr. Suyash Narune
Mr. Krushna Pawar
**Under The Guidance Of
Mr. Margur L. S.**

Home Automation is the new trend among urban households. Home automation system allows controlling home appliances through a remote. The remote can be an IR remote, RF remote or even a mobile phone. An internet-based home automation system could be most accessible setup because such a system can be controlled from anywhere and anytime. Like, one is returning home and before leaving office and getting into the car, he can switch on the AC of his living room so, that by the time he reaches home, the living room is already cooled. Such an advantage can be availed only on a home automation which is controlled over the internet.

The concept of “Home Automation” has been in existence for several years. “Smart Home”, “Intelligent Home” are terms that followed and is been used to introduce the concept of networking appliance within the house. Home Automation Systems (HASs) includes centralized control and distance status monitoring of lighting, security system, and other appliances and systems within a house. HASs enables energy efficiency, improves the security systems, and certainly the comfort and ease of users .

Internet of Things is a growing network of everyday object from industrial machine to consumer goods that can share information and complete tasks when you are busy with other activities. Data Actuation using IoT is a system that uses computers or mobile devices to monitor basic industrial functions and features automatically through internet from anywhere around the world, an automated industry is sometimes called a ‘Smart Industry’. It is meant to save the electric power.

Working Principal:

The idea of data actuation, using IoT and Arduino have been introduced. In this method we are using Arduino because it is energy efficient i.e., it consumes less power, it is fastest. The use of wi-fi module provides a feature of notification. The devices or machines which are ON/OFF can be seen on web page of the consumer. Life is getting simpler and easier in all aspects due to advancement of technology. In today’s world Automatic systems are being preferred over manual system. The rapid increase in the number of users of internet over the past decades has made internet a part of life and IoT is the latest and emerging internet technology.

DEPARTMENT OF ELECTRONICS & TELE- COMMUNICATION ENGINEERING

Teaching Faculty



Mr. S. R. Bagban
Designation: HOD
Qualification: M. Tech



Mr. Margur L. S.
Designation: Lecturer
Qualification: B.E.



Mr. Ligade S. S.
Designation: Lecturer
Qualification: M.Tech



Mr. Udanshu S. S.
Designation: Lecturer
Qualification: M.Tech (ES)



Mrs. Narake A.B.
Designation: Lecturer
Qualification: ME (E&TC)



Mrs. Dharmadhikari A. A.
Designation: Lecturer
Qualification: B.E. (E&TC)

Teaching kids to count is fine, but teaching them what counts is best."



Mrs. Gavandi S. N.
Designation: Lecturer
Qualification: MSC (Chem)



Mrs. Birajdar L. S.
Designation: Lecturer
Qualification: MA (English)

Non Teaching Faculty



Mr. Pathan H. A.
Designation: Lab Assistant
Qualification: Diploma (Electronics)



Mrs. Hadapad S. S.
Designation: Lab Assistant
Qualification: ITI (Electronics) & Diploma
(Computer & Hardware Networking)

STUDENTS' ACHIEVEMENT AND PLACEMENT

COMPANY NAME:

Jhon Deer, Pune

Congratulations to

- Dipesh Mishra
- Shruti Asware
- Ashutosh Mishra
- Shailesh Kumar
- Priti Gaikwad
- Chetan Jiddelu
- Harsh Bhivare
- Pushpa Ghate



COMPANY NAME:

Congratulations to

- Suraj Dumma
- Dhanashree Maske
- Eman Shaikh





Shanti Educational Society's
A. G. PATIL POLYTECHNIC INSTITUTTE
ALL PROGRAMS ARE NBA ACCREDITED
18/2/2 A, Vijapur Road, Opp. SRP Camp, Solapur-8

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 OFFRED IN DIPLOMA ENGINEEING

Discipline	Intake Capacity	Duration of Course
Civil Engineering	60	3 YEARS
Computer Engineering	60	3 YEARS
Electronics and Telecom- munication Engineering	60	3 YEARS
Mechanical Engineering	60	3 YEARS
Electrical Engineering	60	3 YEARS
Total Intake	300	

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