
SUMMER 2023

Program : Computer Engineering

NEWSLETTER



SHANTI EDUCATION SOCIETY'S
**A. G. PATIL POLYTECHNIC INSTITUTE,
SOLAPUR**

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Find uS....

18/2/2 A, Vijapur Road, Opp. SRP
Camp, Solapur-413008.

Tel: 0217 - 6450740, 2341899

Web: www.agppi.edu.in

Welcome



It gives me an immense pleasure to present this issue of newsletter of ComputerEngineering Department.

The newsletter offers a platform for showcasing departmental activities throughout the year and sharing the journey of our department.

I am feeling proud to say that our department has got an **"NBA Accreditation"** in A.Y. 2017-18

and got **"Excellent"** remark from EAMC MSBTE, Mumbai.

As per our vision our team strives 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. As the field of computer is ever changing, we arrange various additional workshops, seminars and expert lectures for our students and motivate them to pursue advanced graduate studies so that they can cope-up with challenging industrial context.

I look forward to many more upgrading issues of the newsletter in coming future.

My best wishes always!

Mr. Patil T. L.
Head of the Department

Vision

To create skilled and technically competent diploma computer professionals to meet the need of industry, business & society.

Mission

1. To cope up with rapid changing technology in the field of computer Engineering.

2. To build team work, innovation & professionalism among students.

3. To develop competency for meeting needs of business & society.

Program Educational Objectives (PEOs)

1. To practice as computing professionals conducting research, designing, developing and maintaining projects in various technical areas.

2. To apply the ethical and social aspects of modern computing technology to fulfill the needs of society.

3. To work effectively as a team member and or leader in an ever changing professional challenges.

Academic Results

High Flyers

Third year

Name of Student	Percentage	Rank
Mr. KOLI SAMARTH	95.37	First
Ms. KSHIRSAGAR SHIVANI	93.89	Second
Ms. PARABKAR VAISHNAVI	91.54	Third

Second Year

Name of Student	Percentage	Rank
Mr. SHAIKH AMAN	92.60	First
Mr. GONDKAR OMKAR	90.06	Second
Ms. PALLI PUSHKARAJ	87.66	Third

Third Year

Name of Student	Percentage	Rank
Ms. BIRADAR SHOBHA	95.60	First
Mr. TAKMOGE ATHARV	94.80	Second
Mr. JADHAV SHRISHANT	94.40	Third



1st



2nd



3rd



1st



2nd



3rd



1st



2nd



3rd

Co curricular Activities

1. Mr. Aryan Penta, Mr. Suyash Thamke, Mr. Samarth Koli and Mr. Akhilesh Iyer from TY CO, Secured 2nd Prize in MSBTE Technothon 2k23 'Project Competetion' at Anantrao Pawar College of Engineering, Pune on 12/04/2023.
2. Mr. Nasir Nadaf, Mr. Shahid Karche, Mr. Arfat Mujahid and Muzaffer Munshi from TY CO won 1st Prize in "Project Expo" (AG Tech Fest 2023) at A G Patil Institute of Technology Solapur on 13/04/2023.
3. Mr. Omkar Gondkar and Mr. Aman Shaikh from TY CO, Secured 1st Prize in Techowave 2k22 State Level technical 'Paper Presentation' at SPM Polytechnic Kumthe, Solapur on 05/11/2022.
4. Ms. Aabha Jhagirdar and Mr. Darshan Awale from SY CO, Secured 2nd Prize in Techowave 2k22 State Level technical Quiz Competition at SPM Polytechnic Kumthe, Solapur on 05/11/2022.
5. Ms. Dnyaneshwari Bhore and Ms. Sakshi Ugade from TY CO, Secured 3rd Prize in Bramhastra 2k22 State Level 'Poster Presentation' at BMP Polytechnic, Solapur on 11/11/2022.
6. Ms. Shivani Kshirsagar from TY CO and Mr. Aman Shaikh from SY CO, Secured 1st Prize in Techno Blast 2k23 State Level 'Paper Prasentation' at SES Polytechnic, Solapur on 03/03/2023.
7. Ms. Shivani Kshirsagar from TY CO, Secured 2nd Prize in Annum 2k23 National Level 'Paper Prasentation' at A.G.Patil Polytechnic, Solapur on 18/03/2023.
8. Ms. Aabha Jhagirdar from SY CO, Secured 2nd Prize in Techno Sprint 2k23 'Tech Quiz' at VVP Polytechnic, Solapur on 05/04/2023.
9. Ms. Shivani Kshirsagar from TY CO, Secured 1st Prize in Techno Sprint 2k23 'Paper Prasentation' at VVP Polytechnic, Solapur on 05/04/2023.



10. Mr. Atharva Suryawanshi and Ms. Vallari Bhuse from TY CO,Secured 1st Prize in Comp Youth 2k23 'Tech Quiz' at VVP Polytechnic,Solapur on 06/04/2023.
11. Mr. Aryan Penta and Mr. Onkar Shrikonda from TY CO,Secured 2nd Prize in Comp Youth 2k23 'Tech Quiz' at VVP Polytechnic,Solapur on 06/04/2023.
12. Mr. Rehan Mulla, Mr. Suyash Thamke and Mr. Tanmay Ambure from TY CO,Secured 3rd Prize in MSBTE Technothon 2k23 'Project Competetion' at Anantrao Pawar College of Engineering,Pune on 12/04/2023

Extracurricular Activities

1. Miss. Aabha Jaghirdar from SYCO Secured 1st Prize in Chess Competition(Girls) 2023 A G Patil Institute of Technology Solapur on11/02/2023
2. Mr. Yash Kulkarni from TYCO Secured 1st Prize in Chess Competition 2023 in DYF 2K23 Diploma Engineering Youth Chess Festival Solapur on 02/04/2023
3. Miss. Vaishnavi Raut from SYCO Secured 1st Prize in Badminton Competition(Girls) 2023 A G Patil Institute of Technology Solapur on11/02/2023
4. Mr. Yash Kulkarni from TYCO Secured 2nd Prize in Chess Competition(Boys) 2023 A G Patil Institute of Technology Solapur on11/02/2023.
5. Mr. Piyush Dede from S.Y CO Secured 2nd Prize in Book review Competition held at AGPPI
6. FOSS Event was Organized by 3rd Year Students to develop and Educate Students about Open Source Software Held at Soni College on 27 August 2023
7. S.Y CO Girls Secured Second Prize in Cricket Competition held at Solapur District level Youth Festival



Memorandum of Understanding (MoU)

During this academic year department has made three Memorandum of Understanding (MoU) with,

- Dream Technology Pvt Ltd , Solapur
- Dacway Infotech, Solapur

This will help our students to improve their practical knowledge by easily visiting these industries.

Master Talks (Expert Lectures)

1. Expert Lecture on "Project Design & Management" by Mr. Vipul Naste Managing Director Dacway IT Solution Pvt. Ltd, Solapur.
2. Expert Lecture on "Spring Boot Web Development" by Mr. Babu Kuda Software Developer Amdocs,Pune.



Industrial Visits

1. Industrial Visit at Dream Technology, Hotgi road solapur (17/11/2022)



2. Industrial Visit at Dacway Infotech solapur (17/11/2022)



Faculty Achievements

Workshops/Training Attended

Mr. Patil T.L –

- Two Days FDP on "An OBE Approach for NBA Accreditation"
- Two Days Online FDP on "Writing Research Paper & Patent Registration"
- Two Days Workshop on "Deploying and Running your Application Server"

Mr Kulkarni M.M –

- Two Days FDP on "An OBE Approach for NBA Accreditation"
- Two Days Online FDP on "Writing Research Paper & Patent Registration"
- Two Days Workshop on "Deploying and Running your Application Server"
- Research paper published on fire detection and localization using web camera

Mr. Goden N.A. –

- One Week FDP on "Amazon Web Services"
- Two Days FDP on "An OBE Approach for NBA Accreditation"
- Two Days Online FDP on "Writing Research Paper & Patent Registration"
- Two Days Workshop on "Deploying and Running your Application Server"
- International Symposium on Artificial Intelligence
- Research paper published on A Review of Traffic Sign Detection Using CNN Networks

Ms. Patil Y.P –

- Two Days FDP on "An OBE Approach for NBA Accreditation"
- Two Days Online FDP on "Writing Research Paper & Patent Registration"

Ms. Jadage S.L. –

- Three Days Online on "Python Programming"
- Two Days FDP on "An OBE Approach for NBA Accreditation"
- FDP on "Data Science"
- Research paper published on Virtual Keyboard implementation based on finger recognition

Ms. Shaikh S.Q. –

- Two Days FDP on NBA Philosophy
- Two Days FDP on "An OBE Approach for NBA Accreditation"

Ms. Sachdev J.C. –

- Three Days Online on "Python Programming"
- FDP on "Data Science"
- One Week Online FDP on "Data Science"
- Two Days FDP on "An OBE Approach for NBA Accreditation"
- Two Days Online FDP on "Writing Research Paper & Patent Registration"

Ms. Kharosekar A.S –

- FDP on "Data Science"
- Two Days FDP on "An OBE Approach for NBA Accreditation"

Other Achievements

- Mr Kulkarni M.M worked as Coordinator for Technical Paper Presentation-Soft Insignia V.23.
- Ms. Jadage S.L worked as Coordinator for Technical Quiz Competition- Soft Insignia V.23.



College Events

1. On 16th February 2022 at AGPPI , an Events to encourage students on occasion of engineer's Day was Coordinated by students of S.Y CO and T.Y CO combined Together.
2. On 5th September 2022 at AGPPI , an Events to Praise Staffs and College Faculty occasion of Teachers's Day was Coordinated by students of S.Y CO and T.Y CO combined Together
3. On 29th April 2023 at AGPPI , an Traditional Day was Organised to increase cultural activites inside Students.





distance

this system can generate

Distance Measurement and text size auto resize using face distance

Face recognition, and biometric recognition in general, have made great advances in the past decade. Still, the vast majority of practical biometric recognition applications involve cooperative subjects at close range. Face Recognition at a Distance (FRAD) has grown out of the desire to automatically recognize people out in the open, and without their direct cooperation. The face is the most viable biometric for recognition at a distance. It is both openly visible and readily imaged from a distance. For security or covert applications, facial imaging can be achieved without the knowledge of the subject. In this Paper, we will review the primary driving applications for FRAD and the challenges still faced. We will discuss potential solutions to these challenges and review relevant research literature. Finally, we will present a few specific activities to advance FRAD capabilities and discuss expected future trends. For the most part, we will focus our attention on issues that are unique to FRAD. Some of the main challenges of FRAD are shared by many other face recognition applications, and are thoroughly covered in other dedicated chapters of this book. The real motivation is to work over large coverage areas without subject cooperation.

Standing from left

1. Mr. Aryan Penta
2. Mr. Samarth Koli
3. Mr. Patil T.L (Project Guide)
4. Mr. Akhilesh Iyer
5. Mr. Onkar Shrikonda
6. Mr. Ritesh Kattimani



A Virtual Keyboard Implementation Based on Finger Recognition

Image processing is a branch of signal processing that can correspond to input and output images or video tapes as images or their various parameters. Gesture recognition and colorization is an image processing process. Recently, many gesture recognition methods have been proposed. Hand tracking has a variety of operations, including motion capture, human-computer interaction, and human behavior analysis. Different types of detectors and tracking gloves are used for detecting and tracking hand movements. Instead of using more expensive sensors, simple webcams recognize gestures and track movements. Videoconferencing is all the rage right now. For this reason, most computer users use webcams on their computers, and most laptops have built-in webcams. The proposed webcam-based system may be suitable to eliminate the need for a mouse and keyboard. The process of interacting with a computer using gestures is a really fun and effective method of HCI.

There are many good surveys of this interest. With the increasing development of technology, the size of equipment is becoming more and more compact. Some devices have gone wireless and some devices have been idle. This article proposes a system that can operate some devices in the future, that is, the future of HCI. This offer concerns the development of a virtual mouse and keyboard using gesture recognition.

1. Mr.Arfat Taraf
2. Mr.Sai Dornal
3. Mr. Sangita Jadage (Project Guide)
4. Mr. Sital Singh
5. Mr. Siddharam Yelshtii
6. Mr. Ritest Tarange



Shanti Education Society's

A. G. PATIL POLYTECHNIC INSTITUTE, SOLAPUR

18/2/2 A, Pratap Nagar, Vijapur Road, Opp. SRP Camp, Solapur - 413008.
(MAHARASHTRA) Tel: 0217 - 2341899, 6450740, Email: contact@agppi.edu.in, Web:
www.agppi.edu.in

"ALL PROGRAMS NBA ACCREDITED"

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

Recognized by : Government of Maharashtra

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

Affiliated to : Maharashtra State Board of Technical Education (MSBTE), Mumbai

An 'Excellent' Grade awarded by MSBTE, Mumbai

COURSES OFFERED IN DIPLOMA ENGINEERING

Discipline	Intake Capacity	Duration
Mechanical Engineering	60	3 years
Electronics and Telecom. Engineering	60	3 years
Civil Engineering	60	3 years
Computer Engineering	60	3 years
Electrical Engineering*	60	3 years
Total Intake	300	

