

**SUMMER 2016**

**Department of Computer Engineering**  
**NEWSLETTER**



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

# Welcome

## In this issue

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co and extra curricular  
activities

Industrial Visits

Expert Lectures, Workshop  
Conducted

MoU, Faculty achievements,  
Other achievements

“Control Water Irrigation By  
An Android App”

“Android Application for Call-  
ing via Wi-Fi”

### Find us....

18/2/2 A, Vijapur Road, Opp.  
SRP Camp, Solapur-8.

Tel: 0217-6450740, 2341899

Web: [www.agppi.com](http://www.agppi.com)



The Computer department has well qualified and experienced teaching faculty members with various specializations. The computer department aims at inculcating quality education to bring engineers with a solid foundation in basic engineering principles and software concepts.

Students are taught to be independent thinkers, create independent types of work, write technical reports and present their work because of Computer Department regularly organizes a series of lectures by experts, workshops & seminars. This activity bridge the gap between curriculum & IT industries & professional of good repute, helping the students to be aware of the Global Scenario.

Ms.P.S.Patil.  
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.

# Toppers

## First Year



Name of Student	Percentage	Rank
NAGANSURE DEVASHISH GIRISH	86.26	First
VIJAPURE SHOAB SALEEM	86.14	Second
SITAL RAKSHANDA VIJAYSING	85.81	Third

## Second Year



Name of Student	Percentage	Rank
TELE AISHWARYA SHRIDHAR	87.98	First
KHED MAYURI MALLIKARJUN	85.62	Second
UMATE SWATI SUDHIR	82.17	Third

## Third Year



Name of Student	Percentage	Rank
LAMBTURE PRAVIN SUBHASH	86.62	First
ADYAPAK SNEHAL CHANDRAKANT	84.56	Second
CHAVAN ANIKET EKNATH	84.44	Third

## Co-Curricular Activities

1. Adhyapak Snehal & Kale Shivani (T.Y.) won **First Prize** in MSBTE sponsored Technical Paper Presentation held at Abhinav College of Engg., Satara, **First Prize** in MSBTE sponsored National Level Technical Paper Presentation Annum 2k16 held at AGPPI, Solapur, **First Prize** in Technical Paper Presentation held at Sinhgad College of Engg., Solapur, **Second Prize** in Technical Paper Presentation held at SPM Polytechnic, Solapur.
2. Udanshiv Ankita & Nagoji Manali (T.Y.) won **Third Prize** Technical Paper Presentation held at SPM Polytechnic, Solapur.



Got 1st prize in Paper Presentation

## Extra Curricular Activities

1. Shubham Kamble (T.Y.), Sachin Rathod (S.Y.), Samarth Upare (F.Y.) participated in Cricket, Umesh Vhanjari, Abhishek Tulse (S.Y) participated in Volleyball, IDSSA zonal.
2. Saptale Aishwarya, Waghmode Asharani, Jadhav Aishwarya, Geeta Wadne (S.Y.) were **Runner up** in Cricket held at V.V.P. Poly. Solapur.
3. Priyanshu Shinde (T.Y.), Waghmode Asharani (S.Y.), Lavanya Uplanchi (F.Y.) participated in Badminton (Girls).



## Master Talks (Expert Lectures)

1. Expert Lecture on Career Opportunities in IT Industry on 25th July 2015 by Mr. Hrishikesh Vedpathak for Third Year Students.
2. Expert Lecture on Latest Technologies in IT on 31th July 2015 by Mr. Chetan Kasture for Third Year Students.
3. Expert Lecture on Electrical Generation, Transmission & Distribution on 22th Sept 2015 by Mr. Paskanti S.G.
4. Expert Lecture on Communications Techniques on 20th July 2015 by Mr. Robert Gauder.



## Industrial Visits

- **Third year students** visited to the following industries during their academic year.
  1. Doordarshan Kendra, Pune .
  2. Davagya IT Services, Solapur
  3. Iping BPO , Suchetan Commercial & Marketing Pvt. Ltd. Solapur
- While visits for **Second Year Students** were carried out to following industries.
  1. Solar Electronics , Solapur



## Workshops Conducted

1. Android Application Development on 26<sup>th</sup> to 28<sup>th</sup> August, 2015 .
2. Networking Technologies on 7<sup>th</sup> to 8<sup>th</sup> August , 2015.
3. MSBTE sponsored SAP training program.
4. Personality Development Workshop by TMC, Mumbai.
5. Entrepreneurship Awareness Camp on 7<sup>th</sup> to 9<sup>th</sup> January, 2016

# Memorandum of Understanding

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

- Devagya IT Services, Solapur.
- Dwij Inoftech, Solapur

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

## Faculty Achievements

### Workshops/Training Attended

1. Ms. Patil P S attended Content Updating Program.
2. Ms. Sarvade K. D. attended Computer Hardware & networking Workshop .
4. Mr. Patil T L attended Personality Development Workshop.
5. Ms. Shabade S. D. attended Linux Programming Workshop .
6. Ms. Belle T M attended Android Workshop.
7. Ms. Agrawal V R. attended Computer Hardware & networking Workshop .

## Other Achievements of Faculty

1. Mr. Patil T L & Ms. Belle T. M. has successfully completed M.Tech from Jawaharlal Nehru Technological University, Hyderabad.

2. Ms. Sarvade K D , Ms. Shabade S. D., Ms. Tambe V T , Mr Sarda A. T are pursuing their Master Degree.

3. Ms. Sarvade K D has published paper on “Data Mining future trends, security and application areas” in international research conference at B P Sulakhe College, Barshi.

4. Ms. Shabade S. D. has published papers on “Dual-Link Failure Resiliency through Backup Link Mutual Exclusion” & “Privacy Preserving Public Auditing for shared data in the Cloud ” in International Journal of Engineering and computer Science.



# Control Water Irrigation By An Android App

Farmers always played important role. Nowadays it is not possible to provide water to any farms by single farmer of any lay-bours. There are many acres of farm and for proper growth of farms supply of water must be in proper way and sufficient. There may waste of water. Due to more supply of water crops may get damaged.

The gardening peoples can also use this app to water their garden. They can also use sprinkler or trip irrigation foe this. The farmer can control watering from any remote location of world.

In order to overcome all the problems some techniques have introduced and developed, quite often with great success. Among the different techniques that are currently in use ,we also encounter the embedded techniques. New techniques are also interesting from scientific point of view.

In this app user will read terms and conditions. After that he should enter the mobile number to receive the OTP code after submission of the code the authentication is performed and can start the motor.

The user App. Will send SMS to the Sim\_Shield and will transfer the SMS to arduino Board. The controller will read the SMS character and perform the defined operation. If the signal is "ON" then board will check the water level and soil moisture sensor and both are below then the sprinkler will ON.

Else the message will be set to user regarding situation. User can get remote access for watering the farm by using android App. Sim\_shield is basically used to receive the message from user. Its a GSM module which operates on 5 volts. and it is provided a power supply to a relay and the controller.

The relay receive the signal from controller for ON or OFF. When it receives to turn ON it switches an normal open is activated. The first relay will provide 12 volts DC output is reterived. The controller operates on 3.3 volts. It has 63 pin LCD to display the messages.

The controller sends ASCII code to the LCD it is then converted into characters. And display on the screen. The controller also checks the moisture level and performs the operations. The reset button is used to reset the controller. Irrigation testing examines all the components and modules that are new, changed, affected by the change, or needed to form the complete system.

Irrigation testing is also differs from system testing in that when a defect is discovered. Sousing this App. Farmer can provide water to his farm from any remote location. It also saves lots of water and human resources. and also can be used for gardening purpose..

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Raichurkar SS      Mahamuni S.H.  
Savalgi R.S      Waghmare A.J.  
Adhyapak S.C.

Ms. Shabade. S.D.

# Android Application for Calling via Wi-Fi



Audio calling application for android smart phones via Wi-Fi network provides high reliability and reduce the calling cost.

Wi-Fi calling Android Application is useful for college campus or the organization who have Wi-Fi router. This application gives facility of calling without any cost. It works on Wi-Fi routers access point and android phone which having this application installed. This application provide high quality audio on call. It also providing text chatting facility. This application is useful for small area. This feature is now integrated into the latest versions of Android in a more standard way.

The result of this application is we can able to call on Wi-Fi.

This application describes various facilities like Audio, calling, text chatting, user friendly GUI. The requirement of this application is RAM of up to 2 GB, Processor having 500Mhz speed and HDD capacity. Android phones have supported this for longer than the iPhone has, but often just with customized Android devices purchased from the cellular carrier itself. There are also other Wi-Fi calling solutions you can use, including Google Hangouts, Google Voice, and Skype.

Using this application Wi-Fi calling allows your iPhone to place and receive phone calls and text messages over a Wi-Fi network. If you have a weak cellular signal but a solid Wi-Fi signal, your iPhone will automatically switch over and route calls and texts via Wi-Fi.

This is disabled by default, so you'll have to enable it before it will do anything. Once you've enabled it, it will "just work" and your phone will automatically switch to Wi-Fi when necessary. You'll see a "Wi-Fi Calling" option here — activate it to enable the feature. If you don't want to use Wi-Fi calling, you can disable it from here, too.

So, using this application without any cost you can make a calls and also a text ,messages.

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Lambture Pravin  
Chavan Aniket  
Torane Prathmesh  
Kamble Shubham

Ms Pail P.S.



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

### COURSES OFFERED IN DIPLOMA ENGINEERING

Discipline	Intake Capacity	Duration of Course
Mechanical Engineering	180	3 YEARS
Electronics and Telecom. Engineering	60	3 YEARS
Civil Engineering	60	3 YEARS
Computer Engineering	60	3 YEARS
Information Technology	60	3 YEARS
Total Intake	420	