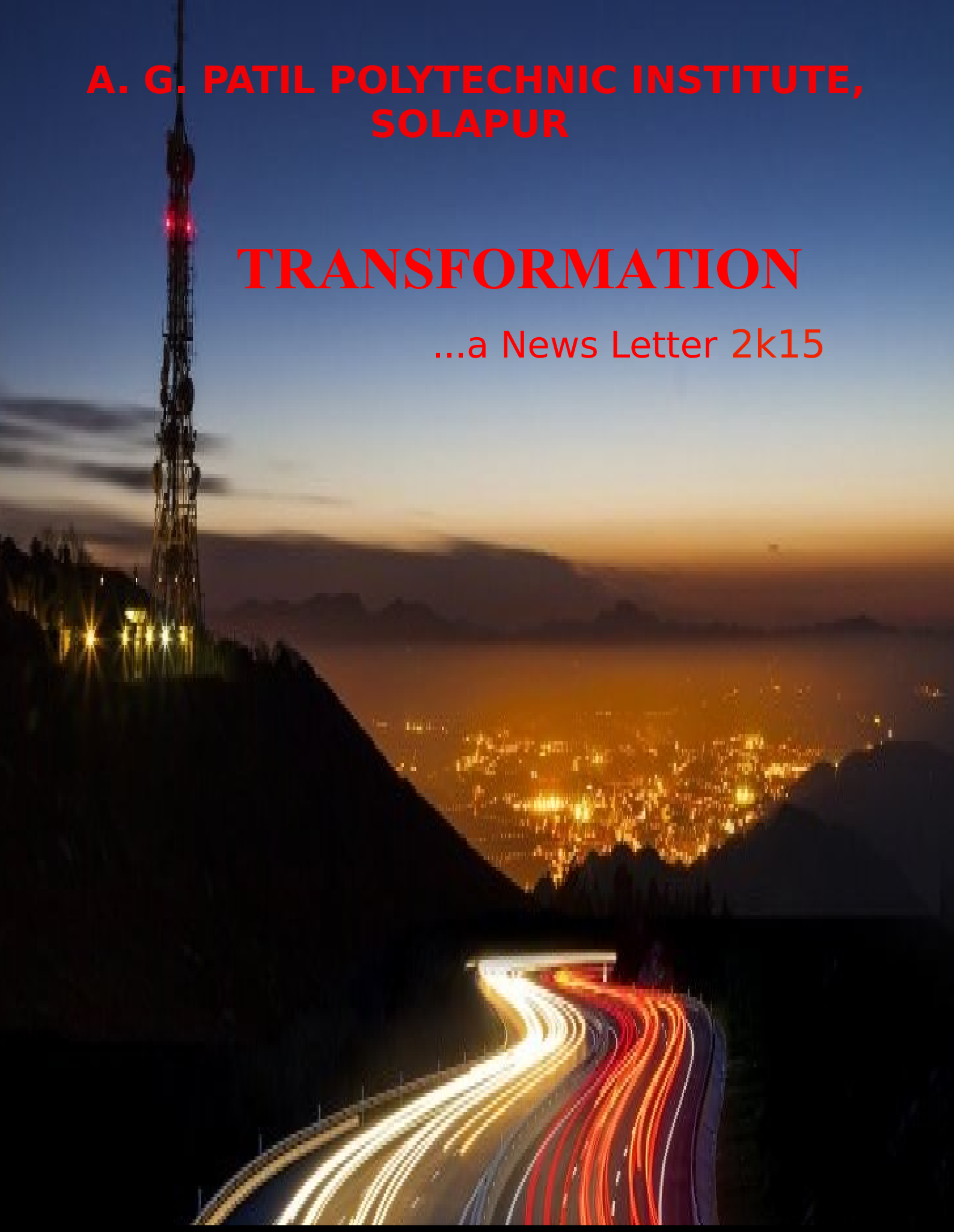
A. G. PATIL POLYTECHNIC INSTITUTE, SOLAPUR



TRANSFORMATION

...a News Letter 2k15

Department of Electronics and Telecommunication Engineering

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Prof.Margur L.S., HOD
EJ

It gives me immense pleasure to publish news letter 'Transformation'.Its a mirror of our departmental activities throughout the year.I congratulate the students and staff members for the contribution in the development of department.I am thankful to Principal and Vice-Principal for their support and guidance.

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.

Department of Electronics and Telecommunication Engineering

Engineer's Day
15 September'15

Dr.Visvesvaraya in their speech.The event was followed by Project Exhibition. Principal Prof.Chougule M.A. appreciated the efforts taken by students in making the exhibition successful.

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Annual Gathering

On 24th March 2015 Annual Gathering were arranged at the department. Students performed various acts and dance.

Department of Electronics and Telecommunication Engineering

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E-phlox

The event for which whole department eagerly waits is E-phlox is the bunch of technical events such as Robotics,Circuit Design,Technical Quiz.Students across the state were participated in the event.

Department of Electronics and Telecommunication Engineering

Alumni Meet

Annual Alumni meet were arranged on 14th Feb. 2015 Alumni members shared their experiences in professional life. They expressed their gratitude towards the teachers and their alma mater.

Industrial Visit to Doordarshan Kendra

Department of Electronics and Telecommunication Engineering

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Achievement in Project design

“ROBOTIC FIRE ASPHYXIATOR”

The motivation for this project came from industries and its surrounding area

where automation is based on Robot and the unwanted conditions lead to be dangerous explosions. The work in the industry with automation is solely dependent on the robot and its hand movements. Even if the fire brigade is there then they have take more time to come for to extinguish the fire whenever needed with pumping On/Off .The aim of our project is to minimize fire explodations by mannual activities such as automobile ignition, magnetic friction which is why we are using a micro- controller.

The micro-controller based Automated Fire Extinguishing system will serve following purposes:

1) As there is no Automobile Ignition, A lot of area is kept safety from being cleaned.

2) The fire fiting is done only when there is a presence of fire and the microcontroller decides when should the pump be turned On/Off,saves a lot of time for fire brigade.This also gives much needed rest to the people of fire brigade,as they don’t have to go and extinguish the fire manually with pumping On/Off

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MULTI PARAMETER MONITORING IRRIGATION SYSTEM

तरुणींनी बनविली मल्टिपॅरामीटर इरिगेशन सिस्टिम

सेन्सरद्धारे देता येईल शेतीला पाणी; ए. जी. पाटील पॉलिटेक्निक इन्स्टिट्यूटच्या विद्यार्थिनी

पुरुषोत्तम कारकल :
सकाळ वृत्तसेवा

सोलापूर, ता. १७ : शेतीला पाणी देण्यासाठी शेतकऱ्यांना प्रचंड उन्हात शेतात राबावे लागते. वळिराजाच्या या समस्येवर उपाय म्हणून सोलापूरच्या चार तरुणींनी मल्टिपॅरामीटर इरिगेशन सिस्टिम ही यंत्रणा बनविली आहे. यातून सेन्सरच्या माध्यमातून शेतीला अत्याधुनिक तंत्रज्ञानाद्वारे पाणी देण्याची अनोखी कल्पना सत्यात उतरली आहे.

ए. जी. पाटील इन्स्टिट्यूट ऑफ पॉलिटेक्निकच्या हर्षाली जमगे, मेघा म्हेत्रे, वसुंधरा हत्तीकट, प्राजक्ता गवळी या विद्यार्थिनींनी हा प्रकल्प बनविला आहे. प्रा. समीर बागवान यांच्या मार्गदर्शनाखाली तयार केलेला हा प्रकल्प त्यांनी नाशिक येथे नुकत्याच झालेल्या अखिल भारतीय विद्यार्थी परिषदेच्या तंत्रशिक्षण विद्यार्थी परिषद

सोलापूर : मल्टिपॅरामीटर इरिगेशन सिस्टिम बनविणारी विद्यार्थिनींची टीम.

आयोजित डिपेक्स २०१५ या राज्यस्तरीय प्रदर्शनात सादर केला आहे. त्यांच्या या प्रकल्पाचे मान्यवरांनी कौतुक केले.

मल्टिपॅरामीटर इरिगेशन सिस्टिम या यंत्रणेत सॉईल मॉश्चर सेन्सर आणि टेम्प्रेचर सेन्सर असे दोन पद्धतीचे सेन्सर वापरण्यात आले आहेत. यातील सॉईल मॉश्चर सेन्सर हे जमीन किती प्रमाणात ओली आहे, आर्द्रता किती आहे याची मोजणी करते. तर टेम्प्रेचर सेन्सर हे तापमान किती आहे याचे मापन करते. ॲटोमेटीक आणि मॅन्युअल अशा दोन प्रकारे ही यंत्रणा वापरता येते. ॲटोमेटीक प्रकारात जमीन कोरडी पडली की सेन्सरमुळे मोटर आपोआप सुरू होते आणि आधीपासूनच सेट केलेल्या प्रमाणात पाणी शेताला मिळाले की मोटर आपोआप

प्रकल्पाला मिळाले प्रायोजकत्व

पितांबरी उद्योग समूहाचे व्यवस्थापकीय संचालक रवींद्र प्रभुदेसाई यांनीही डिपेक्सला भेट देऊन पाहणी केली. यात श्री. प्रभुदेसाई यांना ए. जी. पाटील इन्स्टिट्यूट ऑफ पॉलिटेक्निकच्या विद्यार्थिनींच्या प्रकल्पाचे कौतुक केले. तसेच या प्रकल्पाच्या अंमलबजावणीसाठी प्रायोजकत्व देण्याचे आश्वासनही दिले. मी माझ्या शेतातही हा प्रकल्प वापरणार असल्याचेही श्री. प्रभुदेसाई यांनी सांगितल्याचे मेघना म्हेत्रे समूह सदस्य यांनी सांगितले.

बंद होते.

यातील मॅन्युअल प्रकारात जीएसएम तंत्रज्ञान वापरण्यात आले आहे. ही वायरलेस पद्धत असून शेतकरी शेतापासून दूर असेल तरीही मल्टिपॅरामीटर इरिगेशन सिस्टिम या यंत्रणेच्या माध्यमातून शेताला पाणी देता येते. उदा. ऊस, तांदूळ या पिकांना पाणी अधिक लागते. या पिकांना पुढील एक तास पाणी द्यायचे असेल तर या यंत्रणेत वसविण्यात आलेल्या यंत्रात एक तासाची वेळ निश्चित करता येते. ही वेळ निश्चित करून जीएसएमला संदेश पाठविल्यास पुढील एक तास पाणी पिकांना मिळेल आणि एका तासानंतर त्वरित पाणी बंद होईल. यातून पाणी बचत होण्याबरोबरच अतिरिक्त मनुष्यबळही वाचणार आहे. शेतीच्या आकाराच्या प्रमाणात ही यंत्रणा मोठी अथवा लहान आकारात बसविता येते.

Wireless technology has now reached to every corner of the world. If such technology is added to the field for irrigating crops then it would be great for farmers as well as for other people too. It is a very tedious job for farmers to check the motor-pump by walking through long distances to the field to check whether any problem has occurred or not, such as burning or jamming of motor. The solution to such problem is described in our project.

This project represents that how such things can be made possible with less cost and time by using Embedded and GSM technology. Farmers can control the motor pump on the field by sending messages and can also get informed if something hazardous occurs at the motor pump by getting messages. By this, the yield of crops can be more and farmer can earn more, so as the people.

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Rankers

Ms. Kalje Manjiri
1st Rank TY

Ms.Jamge Harshali
2nd Rank TY

Ms. More Mayuri
3rd Rank TY

Ms. Pinjar Simran P.
1st Rank SY

Ms. Tarate Komal P.
2nd Rank SY

Ms.Kulkarni Sushmita
3rd Rank SY

Ms. Kulkarni Rupali
1st Rank FY

Ms.Shaikh Mubasheer
2nd Rank FY

Ms.Mane Shradha
3rd Rank FY

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