INGENIOUS ELECTRO-CAVALRY

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From the Director's Desk

"The great thinker Isaac Asimov has said "
The sad-dest aspect of life right now is that science gathers knowledge faster than society gathers wisdom " and this is reason why we all are in cultural shock. As a technocrats we should be sensitive to the hap-penings around us. So many farmers are committing sui-cide everyday in our region. We should be committed to change this scenario. Let us add science and technology at the door step of villagers." I want to congratulate E & TC department for all the time and efforts put. I wish you all good luck for future."

Prof. Dilip Gour
(Director)
ICEEM, A'Bad.

HOD's Message

" First of all, I admire the initiative by the students of E&TC, also appreciate the efforts taken by IEC members to publish such a nice magazine within a very short time spam & to be the pioneer in this regards. Some people will appreciate us, some will criticize us; in both cases we are the beneficiary, one will motivate us, while the other will improve us. The people who accept fair criticism are the ones who are genuinely interested in self improvement."

Prof. H. L. Jadhav
H.O.D (E&TC)

As SANWWAAD name itself understands the conversation or communication, communication between people to people or communication between system to system or people to system and vice versa must be clear and understandable with both side of media. Actually the concept publishing an booklet with an including all realistic technological material which will definitely helps to students to think out of box, and which will move their future more brighter. Obviously the environmental and learning culture of ICEEM (International Center of Excellence and management) is much improved but with SANWAAD this goes one step ahead, this will surely helps to not only student of ICEEM but also all student as well as teachers & this helps to live up to dates .

Abhijeet Chavan
Founder
CBROZ Training,
Research & development
Aurangabad.

प्रत्येकाला वाटत असतं

नकुल देशपांडे

प्रत्येकाला वाटत असतं, करावे काहीतरी जातांना धीर गंभीर दोन शब्द बोलावे, डोळ्यातून पाणी येतांना. प्रत्येकाला वाटतं आपण करावं काहीतरी नवं घासुन घासुन घालुन टाकली कॉलेज डे ची चवं. म्हणुनच सुचल आता, आपणच लिहाव्या चार ओळी चार वर्षातल्या पराक्रमांची, बांधावी एक मोळी. सुरुवात करावी कोणापासुन तर ह्याच कॉलेजच्या चार भिंती जन्मभराची जोडली जिथे, ऋणानुबंधाची नाती. एका कोपऱ्यात उभारली आम्ही, उंचे उंचे टॉवर मग हळु हळु दाखवून दिली इलेक्ट्रॉनिक्स पॉवर. पर दोस्ती को क्या मालूम कौनसी किसकी ब्रान्च है एक आवाज मैने भि लगाई मेकॅनिकल सब का बाप है. आज दिखाये तुमको, क्या सबकी पहचान है हर एक का अलग है जज्बा, अलग सबकी शान है. आमच्याकडे सगळयांना, आवडतो टाईमपास ह्या सगळ्यात एक बंदा पडतो थोडा खास जेव्हा जेव्हा क्लासमध्ये, होती थोडी भंकस मास्तर असो का पोरं ,हा देतो बिनधास्त खुन्नस. देव जेव्हा म्हणेल, मला ई ॲन्ड टी.सी.च्यायचय ओम त्याच असेल, मला सेंकड टॉपर व्हायचय शांत, सभ्य खोटा खोटा, बनतो हा बिचारा फस्ट टॉपर च्या पोसीशनचा, हा ध्रुवतारा. शेक्सपिअर बोलून गेला, नावात काय हाय येडा का खुळा त्याला नॉलेज काय हाय नावाची पाटलीण मी, पंगा महागात पडेल व्याजासहीत रिटर्न मिळेल, जो आपल्याशी नडेल. मुर्ती हिची लहान, पण काम मात्र बरं कोणी काहीही म्हणा, ही म्हणते माझंच खरं. क्लास कट्टा असो की कॅन्टीन जेव्हा बोलायला विषय मिळत नाही सार्वमताने सुरु होऊन जाते टिचकुलेच्या लग्नाची घाई. कुणी शांत कुणी भांडकुदळ, कुणी वागतं इथे प्रेमाने खासीयत एवढीच की, साफ सारे मनाने. इंजिनिअरिंग करतांना साऱ्यांनाच एक रोग लागतो सिल्याबस सोडून चार वर्षात बाकी सारं शिकतो साबळे सारखा कुणी, परमनन्ट पेंटर बनतो सैफ कडु फ्लर्टिंगसाठी,सारी दुनिया शायरी घेतो. कुणी सारख सारख रडत असतं तर कुणाला कॅलेन्डर बनायला आवडतं कुणी असतं आपल्याच धुंदीत परेशान कुणी साऱ्या दुनियेची जाणिव ठेवतं. पी.एच.डी. शिवाय सुध्दा आमच्याकडे सायन्टिस्ट बनता येते क्रॅकॅऊन शिवाय सुध्दा आमच्याकडे प्रिन्सेस बनता येतं मांडवली करणारा बादशाह येथे लाला म्हणून ओळखला जातो अशे कोणते गुण ह्याचे की हा चॉकलेट बॉय म्हणवला जातो. एम-३, एम-४ मुळे झाली साऱ्यांची जिंदगी मंद आमच्याकडे एकीला मॅथ चाच भलता छंद. कुणी रडता रडता हसतं कुणी हसता हसता रडतं एकमेकांना बघुन आमच्याकडे साऱ्यांचच मन खुलतं. माहीत नाही पुढे आयुष्यात काय असेल पण इथुन जातांना मैत्रीची ओंजळ भरलेली असेल.

Placed in

Videocon

जवेरिया कादरी

अपुर्वा साळी

Shriram Finance

भाग्यश्री बनकर

सैफ खान

"TECHNICAL PROJECTS & ARTICLES "

RECHARGABLE TORCH

This is a rechargeable torch that can be charged straight from the mains supply. As the current is very low, it can be left overnight without risk of damaging the batteries. The components in the drawing are calculated for a mains tension of 220V AC.

Satish Kasture

BIRD ALARM

This circuit may be used as a security alarm in banks, households and motorcars. If you are using this for school work then consider only the 1st one it's simple and easy to construct, Similary alarm with police siren.

Avinash Sonwane

FIRE ALARM

In this mini project we made a fire alarm circuit using timer IC (IC555) and thermistor. Here we are using a thermistor sensor to sense the fire. The working principle of fire alarm circuit depends upon working principle of thermistor (i.e. thermistor changes its resistance as temperature changes). Thus when temperature of thermistor increases because of fire its resistance also changes.

Rohit Bhawar

BPSK

In binary phase shift keying (BPSK) modulation scheme, the phase of a carrier is changed in accordance with the digital pulse signals. BPSK modulator is basically a phase modulator. Here the transmitted signal is a sinusoidal of fixed amplitude. It has one fixed phase when the data is at one level and when the data is at the other level, phase is shifted by 180 degree.

Sagar Wadekar

DUAL POWER SUPPLY

The following circuit Diagram of (DUAL VOLTAGE POWER SUPPLY) can be used for Misc application. It requires a few components to built. The most important components of this circuit are REGULATORS

Nilesh Mane

MOBILE CHARGER USING SOLAR PANEL

Solar panel absorb the sun rays as a source of energy for generating electricity. It is a portable charger which can obtain energy from sun only. This charger can be used for public purpose also, public solar charger permanently installed in public places, such as parks, squares and streets, which anyone can use for free.

Vijaya Rahane

"TECHNICAL PROJECTS & ARTICLES "

IR MUSIC TRANSMITTER

Using this circuit, audio musical notes can be generated and heard up to a distance of 10 meters. The circuit can be divided into two parts: IR music Transmitter and receiver. The IR music transmitter works off a 9V battery, the IR music receiver works with 9V to 12V battery. The circuit is used as alternative for the Bluetooth, it has high efficiency.

Shubhangi Kasar

IR MUSIC RECEIVER

IR music receiver works on regulated works off 9v to 12 v supply. The IR music receiver uses popular Op-amp IC µA741 and audio-frequency Amplifier IC LM386.The melody produced Is heard through the Receiver's loudspeaker.

Maya Ingale

CLASS A POWER AMPLIFIER

The purpose of class A bias is to make the amplifier relatively free from distortion by keeping the signal waveform out of the region between 0V and about 0.6V where the transistor's input characteristic is non linear. Class A design produces good linear amplifiers, but are wasteful of power. The output power they produce is theoretically 50%.

Shital Waykule

DARK SENSOR USING LDR

This project is a versatile sensor. It's working is based on the principle of LDR.The dark sensor switches on transistor or LED whenever incident light intensity is decreased. It senses the dark. It is used in applications like burglar alarm, automatic street lights, in large scale industries.

Anjali Kawthe

BINARY AMPLITUDE OF SHIFT KEYING (BASK)

It is one of the digital modulation techniques in which the amplitude of carrier is switched according to binary data. binary 1 is represented by a short pulse of light and binary 0 by the absence of light. It is used to transmit digital data and in military communication application.

Aboli Waikos

ELECTRICITY GENERATION USING EXHAUST FAN

This Exhaust fan is based on electricity generator. Its basic principal is rotation of fan, which is caused by flow of wind thus the magnets and the coils are connected and generates the EMF. This causes flow of current, then this generated electricity is stored in the battery connected to the unit.

The generator described above works better if implemented on the roof of the workshops, buildings etc.

Badgujar Poonam R. | Gavhane Priyanka G.

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PA SYSTEM

A public address system (PA system) is an electronic sound amplification and distribution system with a microphone, amplifier and loudspeakers, used to allow a person to address a large public, for example for announcements of movements at large and noisy air and rail terminals or at a sports stadium. The term is also used for systems which may additionally have a mixing console, amplifiers and loudspeakers suitable for music as well as speech, used to reinforce a sound source, such as recorded music or a person giving a speech or distributing the sound throughout a venue or building.

Simple PA systems are often used in small venues such as school auditoriums, churches, and small bars. PA systems with many speakers are widely used to make announcements in public, institutional commercial buildings and locations. Intercom systems, installed in many buildings, have microphones in many rooms allowing the occupants to respond to announcements.

Surekha Rathod, Varsha Deshpande, Pruthvi Dapke
Poonam Badgujar, Madhura Dixit, Savita Ubale
Priyanka Gavhane, Priyanka Masi, Sunita Kuber

BRAIN–COMPUTER INTERFACES

For many years people have speculated that electroencephalograph activity or other electro physiological measures of brain function might provide a new non-muscular channel for sending messages and commands to the external world – a brain–computer interface (BCI).

Shaikh Fakharunissa | Wankhede Dhanshree

Over the past 15 years, productive BCI research programs have arisen. Encouraged by new understanding of brain function, by the advent of powerful low-cost computer equipment, and by growing recognition of the needs and potentials of people with disabilities, these programs concentrate on developing new augmentative communication and control technology for those with severe neuromuscular disorders, such asamyotrophic lateral sclerosis, brainstem stroke, and spinal cord injury. The immediate goal is to provide these users, who may be completely paralyzed, or 'locked in', with basic communication capabilities so that they can express their wishes to caregivers or even operate word processing programs or neuroprostheses. Present-day BCIs determine the intent of the user from a variety of different electro physiological signals. These signals include slow cortical potentials, P300 potentials, and mu or beta rhythms recorded from the scalp, and cortical neuronal activity recorded by implanted electrodes. They are translated in real-time into commands that operate a computer display or other device. Successful operation requires that the user encode commands in these signals and that the BCI derive the commands from the signals.

E BICYCLE

T.E BOYS

The basic idea is to attach a motor to the cycle for its motion. A motor that is powered by a battery and that can be switched on during difficult terrains and switched off and pedal to get the battery re-charged during motion in a flat terrain. The idea came into our mind as different stages of project planning, firstly we wanted to implement a simple moving system so the projection of cycle as a system came into our mind, and second stage was adding a necessarily useful component into it that can be beneficial in the future and for common people, falling into the current trend was that of hybrid system so we ended up planning to assemble a motor unit into the cycle drive. There were many issues that came up while making such a system major one of them being the power of the motor to be used, since no such previous systems were made we could not predict the type of motor which we should go for. Second thing being the weight factor, the addition of extra weight on to the system, which can cause discomfort to the rider while normal pedaling. Third was the type of battery to be used, we should go for a battery that has longer life, economically viable, and also has less maintenance issues. Fourth issue was that self-recharging a battery with a motor alternator unit that too with the simple cranking motion of the cycle was not viable, we had to utilize a mechanism that can come in handy here and that was by using the flywheel rotation technique.

ADVANTAGES

- Economical than fuel-powered cars and motorcycles
- Extended range and Reduced stress
- Safe and Easy to operate
- No harmful carbon Emissions

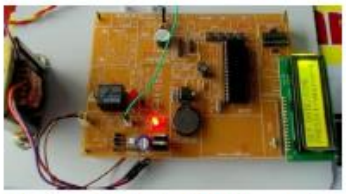
WIRELESS POWER TRANSMISSION

Arti Hangargekar | Sarika Sinha

Over the past 15 years, productive BCI research programs have arisen. Encouraged by new understanding of brain function, by the advent of powerful low-cost computer equipment, and by growing recognition of the needs and potentials of people with disabilities, these programs concentrate on developing new augmentative communication and control technology for those with severe neuromuscular disorders, such asamyotrophic lateral sclerosis, brainstem stroke, and spinal cord injury. The immediate goal is to provide these users, who may be completely paralyzed, or 'locked in', with basic communication capabilities so that they can express their wishes to caregivers or even operate word processing programs or neuroprostheses. Present-day BCIs determine the intent of the user from a variety of different electro physiological signals. These signals include slow cortical potentials, P300 potentials, and mu or beta rhythms recorded from the scalp, and cortical neuronal activity recorded by implanted electrodes. They are translated in real-time into commands that operate a computer display or other device. Successful operation requires that the user encode commands in these signals and that the BCI derive the commands from the signals.

AUTOMATIC COLLEGE BELL

The world over the decades has made considerable advancement in automation; automation is employed in every sector whether it is home or industry. Here a new and inexpensive design is being presented. This design finds a tremendous use at primary and secondary school levels as well as in colleges where the teaching sections can span over eight periods including breaks. The advantage of this design is that the bell rings at the start of each period without any human intervention to a great degree of accuracy and hence takes over the manual task of switching on/off the college bell with respect to time. It uses Real Time Clock (DS1307) which tracks the real time. The scheduled time results are compared with that of a clock, however, some drift is noticed, which is negligible.



Dhanshree Wankhede | Aarti Hangargekar
Anupama Sakunde | Shaikh Faakrunnisa

The micro controller AT89S52 is used to control all the functions, it gets the time through the keypad and stores it in its memory. When this programmed time equals the real time then the bell is switched on via a relay for a predetermined time. The bell ringing time can be edited at any time, so that it can be reused again and again at normal class timings as well as at exam times. Also it can be made password protected so that no unintended person can operate this system except for the operator. For this a micro controller has to be programmed using the C language or assembly language for controlling the circuit.

PROJECT LOON

Madura Dixit | Priyanka Masi

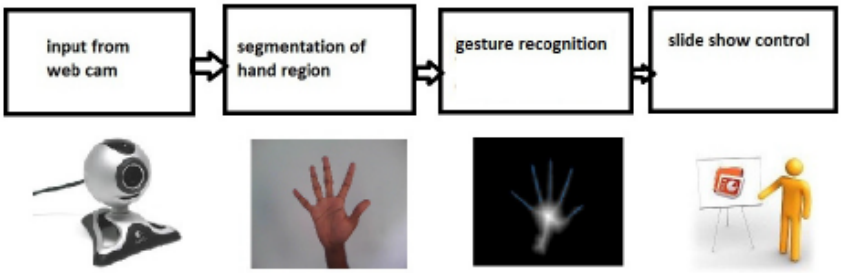
is a research and development project being developed by Google X with the mission of providing Internet access to rural and remote areas. The project uses high-altitude balloons placed in the stratosphere at an altitude of about 18 km (11 mi) to create an aerial wireless network with up to 4G-LTE speeds. It was named Project Loonsince Google, itself found the very idea of providing internet access to the remaining 5 billion population unprecedented and "crazy."

The balloons are maneuvered by adjusting their altitude in the stratosphere to float to a wind layer after identifying the wind layer with the desired speed and direction using wind data from the National Oceanic and Atmospheric Administration (NOAA). Users of the service connect to the balloon network using a special Internet antenna attached to their building. The signal travels through the balloon network from balloon to balloon, then to a ground-based station connected to an Internet service provider (ISP), then onto the global Internet. The system aims to bring Internet access to remote and rural areas poorly served by existing provisions, and to improve communication during natural disasters to affected regions.[5][6] Key people involved in the project include Rich DeVaul, chief technical architect, who is also an expert on wearable technology; Mike Cassidy, a project leader; and Cyrus Behroozi, a networking and telecommunication

GESTURE RECOGNITION FOR SLIDESHOW CONTROLLER

Gesture is one of the most natural and expressive ways of communications between human and computer in a real system. We naturally use various gestures to express our own intentions in everyday life. Hand gesture is one of the important methods of non-verbal communication for human beings. Hand gesture recognition based man-machine interface is being developed vigorously in recent years.

Information conveyed in seminars, project presentation or even in class rooms can be effective when slideshow presentation is used. There are various means to control slides which require devices like mouse, keyboard, or laser pointer etc. The disadvantage is one must have prior knowledge about the devices in order to operate them. This paper proposes two methods to control the slides during a presentation using bare hands and compares their efficiencies. The proposed methods employ hand gestures given by the user as input. The gestures are identified by counting the number of active fingers and then slides are controlled. Unlike the conventional method for hand gesture recognition which makes use of gloves or markers or any other devices, this method does not require any additional devices and makes the user comfortable. The proposed method for gesture recognition does not require any database to identify a particular gesture.



HAND MOTION BASED MULTIPURPOSE ROBO

This project is to develop a ROBO which is useful to the physically disabled person with his hand movement or his hand motion recognition using Acceleration technology. It is ROBO which can be controlled by simple hand motions. It employs a sensor which controls the ROBO hand motions made by the user and interprets the motion intended by user and moves accordingly. In Acceleration we have Acceleration sensor. When we change the direction, the sensor registers values are changed and that values are given to micro controller. Depending on the direction of the Acceleration, micro controller controls the ROBO directions like LEFT, RIGHT, FRONT, and BACK. The aim of this paper is to implement ROBO direction control with hand motion reorganization.

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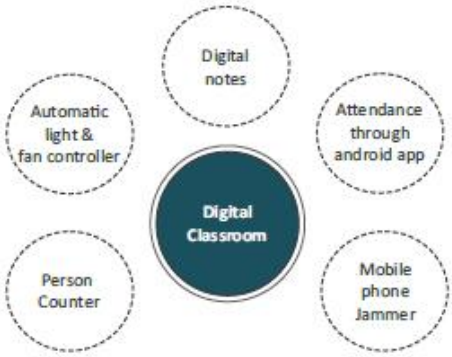
DIGITAL CLASSROOM

Technology integration in the classroom has become an increasingly challenging and potentially disruptive aspect in today's educational environment. However, as technology becomes increasingly ubiquitous in our society outside of the classroom, some believe that effectively integrating these technologies into the classroom can ultimately improve student engagement in their learning environments.

In Digital classroom we set some parameters, in which attendance system with the help of android application, automatic fan and light ON and OFF using laser and LDR, Present student counting and display on LCD, Preschedule Mobile Phone Jammer etc. are included. To improve the accuracy and less paper work for attendance, android application is developed, which reduces the efforts of faculty to maintain the student data. Android application is very user friendly so that 90% of smart phone users has android operating system in their phones. This makes the attendance system simple. Most of the time fan and lights are ON even though there is no one in the classroom. To reduce this loss of energy automatic light and fan control is very useful. It makes the fan and light OFF when nobody present in the classroom. So we can save the electricity.

BLOCK DIAGRAM OF DIGITAL CLASSROOM



VIDEO INPAINTING

Embedded text in a video sequence provides valuable information of paramount importance. Texts usually appear as logos, subtitles, captions or banners in the video sequence. Examples of such informative embedded texts can be largely found in the news and other popular television broadcastings. Although texts provide additional information, not all of them are necessary as they may occlude important portions of a video. Consider the case, for instance, when indirect advertisement is not permitted but it is already included within a frame sequence in the form of a caption. Hence, there should be a way to erase the unwanted text from the video. This motivates the need of an automatic approach to remove undesired texts from a video. Roughly speaking an automatic video text removal scheme involves two main

GALLERY

Aboli Waikos
S.E. (E&TC)

Aarti Hangargekar
T.E. (E&TC)

Priyanka Gavhane
T.E. (E&TC)

Aarti hangargekar
T.E. (E&TC)

Pranita Vyvhare
B.E. (E&TC)

गुरू म्हणजे....?
गुरू म्हणजे...
स्वतः काट्याच्या मार्गात उभा राहून ,
चटके देणारा प्रखर प्रकाशाचा कंदील
हातात धरून ,
त्याच्या शरणागतास तिमिरातून
प्रकाशाची वाट दाखवणारा,
एक "स्व" ही भावना नसणारा..
आपण कमावलेले ज्ञान
साठवून न ठेवता ,
निरपेक्ष बुद्धीने आपल्या ज्ञानाचे भांडार,
शिष्यासाठी उघडे करून देणारा,
निर्लोभी निर्मळ मनाचा...

शिष्य कसाही असो
त्यास आपला पुत्र मानणारा ,
त्यावर जीवापाड प्रेम करणारा
प्रेमळ, दयाळू मात्र प्रसंगी कणखर होणारा ...

देव? पुण्यात्मा? कल्पतरू
की फक्त एक माणूस..?

- कु. मधुरा नितीन दीक्षित

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कॉलेज कट्टा

काय म्हणता म्हणता कॉलेज सुरु झालं नविन Admissions,
नविन मैत्री सगळं नवं . नंतर मग LECTURES,
PRACTICALS सगळं ROCKING.
पण कॉलेजच्या बाहेरच्या कट्ट्यावर नेहमीनविन गोष्टी व्हायच्या. टिंगल-टवाळी, मस्तीत हे संगळ करण्यात दिवस कसे गेले कळालेच नाही. कॉलेज ची वर्षे पुढे गेली. अशीच मजा आपण नेहमी करू असं वाटत होतं पण संपल ते कॉलेज आणि संपल्या त्या आठवणी. पण अजूनही गेले ना कॉलेज मध्ये आठवतो तो कट्टा, संगळ काही त्या कट्ट्यावरचं. जुन्या आठवणी ताज्या होतात. असाच तो आजही बोलतो अगदी सजीव असल्यासारखा. कट्टाच काय पण. तिथलं वातावरण आजही जाग होतं. हाच कट्टा मी आजही MISS करते.
कट्टा जरी छोटा असला तरी त्या सोबतची ATTACHMENT खूप मोठी असते जसे जसे दिवस निघून चालते तशा तशा आठवणी मात्र ताज्या होतात.

पुजा यादव

ENGINEER.....
The day my body becomes insulator said
The electrical Engineer.
The day memory fails me Self employed said
The civil Engineer.
The day my body over packed with diseases said
The chemical Engineer.
The day people finds me boring said
The mining Engineer.
The day my body used petroleum as fuel said
The petroleum Engineer.
The day my mind is busy in integrated circuit said
The electronics Engineer.
The day my body becomes lubricated said
The mechanical Engineer.

Aboli Waikos

झळ

पाण्याची झळ आता इतकी जाणवते की, डोळ्यातलही पाणी आटत चाललयं.
दुष्काळाच्या चर्चांना तर पूर आलाय पण मदती मात्र तशाच कोरड्या.....
गरज आहे ती डोळसपणे शेतकऱ्यांच्या डोळ्यातलं पाणी पाहण्याची....
पण ते ही आटण्याच्या आत.....
गडगंज संपत्ती असूनही मदतीचे हात देणारे मात्र कवचितच.....
सहानुभूतीचा दिलासा ना तहान भागवणार ना भूक.....
सट्टा लावून पैशाची धुळ माती करण्यापेक्षा...
धरतीचं ऋण म्हणून शेतकऱ्यांची मदत जर केली तर दुष्काळाची झळ कमी जाणवेल..
भ्रष्टाचाराचा हैदोस योजनांना फक्त कागदावरच अमलात आणतोय.जर आपुलकीचा ज़ोरा शब्दांऐवजी करण्यावर ठेवला.. तर असे किती दुष्काळ ही महाराष्ट्राची माती पचवेल...

- वर्षा देशपांडे

Feelings Of Father

Maa ko lagate ho gale hamesha
Kuch pal mere bhi saath raho...
Papa ,bahot yaad aate ho aap...!!!
Kuch mujhse bhi aisa kaha karo...

Maine bhi jazbato ke toofan
Dil me hai samete hue,
Zaahir na kiya kabhi magar
Na socho k dil me mere pyaar na ho...

Thi meri ye zimmedari, k gher me koi mayoos na ho
Main sahoo taklife saari, aur tum sab mehfooz raho...
Saari kkhushiya tumhe de sakoo, is koshish me main laga raha
Thi mere bachpan me jo kamiyaa ,wo kabhi na tumhe mehsoos ho...

Hai zamaane ka usool yahi k pita sada gambheer rahe
Mann me jo hai armaan chupe, ye na kabhi tumse zaahir kare
Karu baat bhi rukhi-sukhi, bol bolu bas seekh wale
Dil me pyaar hai maa jaisa hi ,bas tasveer(image) kuch alag rahe...

Bhula nahi hu ab tak tumhare lad-khadate bol,
Kandho pe bitha kar ghumana tumhe, jhule jhulana gol gol...

Maa k hath kharch maangna, mujhe dekh saham jana..
Jo daatoo zara bhi, to aansu ka aankho me hi tham jana..
badhte kadam tumhare ladak-pan ko,kuch badhna mere mann ki aashanka...
lekin dekh k izzat aankho me tumhari, meri fikar ka kam hojaana...

tumhare college k aakhri program me ,mera shaamil na ho pana,
tumhari train hui aakho se ojhal,phir bhi mera der tak haath pherana...
door jo ho gaye tum ab to, yaado se dil behlata hu
taarikh(date) hi dekhta hu,k kab hoga tumhra gher aana...

ab ke jab tum gher aaoge,pyaar mera dikhlaunga,
maa ki tarah hi pyaar karta hu, ye tumhe batlaunga,
aa kar tum phir chale gaye,baat wahi bas do-chaar hi hui,
pita ka ohda(pad) yhi hota hai ,ab khud ko yhi samjhaunga....

SAIF KHAN
BE(E&TC)

नभी पाखराला

उगा बंधने घालता का मनाला?
उडू ऊंच द्या ना! नभी पाखराला

कधी भेटते का गगन भूतलाला?
तरी ओढ क्षितिजा! तुझी मानवाला

सलोखा कराया अहं आड येतो
दुरावा जरी काचतो आपणाला

गळा फास बांधून मुक्ती मिळाली
किती आळवू वांझ काळ्या नभाला?

ठरवतो जमाना कसे मी जगावे
तरी दर्पणी पाहतो मी स्वतःला

कुठे शेत माझे मलाही न ठावे
तरी सात बार्यात नोंदी कशाला?

करायास सारथ्य घे कासरा तू
सुदर्शन नको, धीर दे अर्जुनाला

लिहू काय गाथेत मी जीवनाच्या?
घराणे न मजकूर शब्दांकण्याला

तुझी सांग "निशिकांत" व्याख्या सुखाची
"न मिळते कधी जे असोनी उशाला"

आशिष पाटील
BE(E&TC)

xpanding Horizons
EEM

GATHERING PICTURES

INAUGURATION OF IEC 2K16

आज कलम दोस्ती पर लिखने के
लिए मंजबूर हो गई है...
क्योंकी दोस्ती हमारा गुरूर...
और दोस्ती हमारा फर्ज बन गई है.....

जहाँ चाहत है, वहाँ दर्द है!
ये जानते आए है वो
पर अब दर्द को ही
चाहत बना बैठे है|

'जो मुसीबत में काम आए
वो दोस्त होते है|
वरना खुशीयों में तो
मुसाफिर भी शामिल होते है|

इस जहां के मुसाफिर है ...
खयालों मै खोये रहते है..
अब डर लगता है की..
खयाल ही जहाँ ना बन जाये.. वर्षा देशपांडे

DEPARTMENTAL ACTIVITIES REPORT
(Academic Year 2015 - 2016)

1. Department:- E&TC Engineering:

❖ Technical Competitions / Expert Lectures / Events Organized by Department:

Sr. no.	Title	Date	Chief / Special Guests	Program highlights
1	Expert lecture on "Electronics Industry Ecosystem and Upcoming Technologies"	18/08/15	1. Mr. Chandrashekhar Gampawar 2. Prof. Dilip Gour, Director, ICEEM	Mr. Gampawar enlighten the importance of Electronics Engineering and discussed about the market place of Electronics Industries.
2	2nd Inaugural Ceremony of IEC & Expert Lecture on " DMIC & Smart city"	22/08/15	1. Mr. S.L. Sambrey, CEO, LUANS Electronics 2. Prof. Dilip Gour, Director, ICEEM	Mr. S.L. Sambrey discussed about the future scope of Electronics and exposure to jobs available due to growth in ESDM sector, Digital India. IEC committee charges were handed over to respective students.
3	Teachers' Day Function	05/09/15	Prof. Dilip Gour, Director, ICEEM	Different events and fun games were organized for the faculty members by the students of department.
4	Engineers' Day Function	15/09/15	Prof. Dilip Gour, Director, ICEEM	A tribute was given to Dr. Vishvesharaya by Director Sir. Prof. Amol Pawar was felicitated for organizing the industrial visit to Bangalore. A short movie was displayed showing the moments of Industrial visit.
5	Expert Lecture on "Awareness of Higher Education"	05/02/16	Mr. Shekhar Bidwai (Chinmay Education Consultancy, Pune)	He share his views about higher education in India and Abroad and different opportunities for Higher Studies.
6	Guest Lecture on 'Overseas Education'	06/02/16	1. Prof. Adwait Aras 2. Prof. Jatin Rane (FACT Education)	Awareness of GRE and TOEFEL for final year engineering students. Discussion about different scholarship offered by Foreign Universities.

❖ Industrial Visits Arranged by Department:

Sr. No.	Date	Visited Industry / Institute / Place
1	11/09/15	BHEL, E2E Rail, Bangalore, Karnataka.
2	10/09/15	LUANS Electronics, Aurangabad, Maharashtra
3	12/03/16	Indo-German Tool Room, Aurangabad
4	19/03/16	High Power Transmission(HPT) Station, Mhaismal

❖ Events attended by Faculties / Students of Department (Organized by ICEEM):-

Sr. No.	Title/Topic	Guest(s)/Expert(s)	Date
1	Batch 2014-15 Felicitation Function	Mr. Mahesh Shivankar, Mr. Ashish Garde	25/08/15
2	Teachers Day Function	Hon. Shri Madhavrao Chitale	05/09/15

❖ Technical Workshops Organized by Department

Sr. No.	Title	Recourse Persons	Organizing Secretary	Month & Year
1	State level workshop on "Hands on Latex"	Prof. Nutan Bansode, MIT, Alandi(Pune)	Prof. Hemant L. Jadhav	15th and 16th January 2016.
2	A Two days workshop on "Introduction to Android 2.3 based Applications Development"	1. Mr. Rajesh Dhalange 2. Mr. Bilal Rajul Sheikh (NOZTEC, Aurangabad)	Prof. Hemant L. Jadhav	21st and 22nd March 2016

❖ International/ National Research papers Published by Faculty Members:

Sr. No.	Title of Paper	Authors	Name of Journal	Issue No.	Month & Year
1	International research paper on"A Effective way to modify video by deleting foreground object from stationary background by using Exemplar based Inpainting Method."	Prof. A. J. Pawar	IJESRT - International Journal of Engineering Sciences & Research Technology	ISSN: 2277-9655 Scientific Journal Impact Factor: 3.87	05th March 2015
2	International research journal paper on "An Energy Efficient Street Lighting System based on Solar Energy and MPPT Algorithm."	Prof.Sailee Sheldarkar	IRJET - International Journal of Research in Engineering & Technology	Scientific Journal Impact Factor: 3.12	30th September 2014
3	International research journal paper on "Closed loop controlled pfc boost converter with constant output voltage and EMI filter"	Prof.Rohit Chachada	IRJET - International Journal of Research in Engineering & Technology	Scientific Journal Impact Factor: 3.12	9th December 2015

❖ Conferences/Workshops attended by Faculty Members:

Sr. No.	Title	Name of Faculty	Organized by	Month & Year
1	State level workshop on "Hands on Latex"	All Faculty members	International centre of excellence in engineering & management, Aurangabad	15th and 16th January 2016.
2	A State Level Workshop on "Recent Advances in Wireless Communication & Antenna Design"	Prof. Hemant L. Jadhav Prof A. J. Pawar	PREC, Loni	18th &19th March 2016
3	10th IEEE Conference on Intelligence System and Control (ISCO-2016), Presented Paper on "A effective way to modify video using different Inpainting Methods"	Prof A. J. Pawar	Karpagam College of Engineering, Coimbatore (Tamilnadu)	7th January 2016
4	45th ISTE National Convention	Prof A. J. Pawar	HVPM's College of Engineering, Amravati	11th January 2016
5	International Conference on Information Engineering, Management and Security presented Paper on "Simulation and design of PFC boost converter with constant output voltage and EMI filter"	Prof.Rohit Chachada	IIT research park, Chennai.	13th and 14th August 2015.
6	National Conference on Signal and Image Processing (ICONSIP 2015) presented paper on "Street Lighting System based on Solar Energy and LED's"	Prof.Sailee Sheldarkar	SGGS,Nanded	10th & 11th July 2015
7	A National Level workshop on "MATLAB, Simulink and Low cost Design using Signal and Image Processing Toolbox"	Prof.Ansar Ahmad Prof.Sailee Sheldarkar Prof. Rohit Paithane Prof. Aparna Lahane	MIT,Aurangaabd	16th to 19 th December, 2015

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