

FROM THE EDITOR'S DESK

The Editorial team of the department brings to you the official magazine "TECHNOLEDGE 2014", a chronicle of the year's academic, co-curricular activities, events, functions and various other features. In the pages you will find the honest attempt of the team to bring out a magazine with a new ideas. To the discerning eye, this magazine may contain a few flaws. But in the words of Scott Adams "Creativity is allowing yourself to make mistakes. Art is knowing which ones to keep." So my appeal to you all is to go about reading the magazine and accept it with all its strengths and its weaknesses.

My gratitude to our management for giving us a free hand in the publication of this magazine. Garnering the resources, compiling them and presenting it to you in its present form needs a lot

of effort, our editorial team have done a wonderful job.

So buckle up and get ready to surf through the pages of "TECHNOLE" 12014" the perfect host.

EDITORIAL MEMBERS

Mrs.Chhavi Sharma, Assitant Pro



RashiSolanki (IIIrdYear)



ShivangiAgarwal (IIIrd Year)



OUR DEPARTMENT



DEPARTMENT MISSION

ssion is to inculcate a spirit of scientific temper and analytical thinking & train the students to contemporary to meet the challenging needs of a redustry by providing versatile sound dge in the field of engineering and echnology.

The Department of Electronics Communication was established in 1995.

The Electronics & Communication Engineering course provides comprehensive knowledge of the subject through coverage of relevant and contemporary issues. The focus is on sharpening analytical as well as designing skills and problemsolving abilities based on sensitivity to the rapidly changing environment, and a firm grasp of right values. The course structure is dynamic and is reviewed periodically to strengthen existing courses and introduce new ones in keeping with the requirements of the environment. A variety of individual and group learning projects that provide the participants with exposure to real - world instrumentation issue.



DEPARTMENT VISION

Our vision is to develop the department in to a full fledgedCenterof learning in various fields of electronics and communication Engineering keeping in view the latest developments and to invoke enthusiasm among the students to continually renew their education in rapidly developing technological scenario.

Faculty & staff Details

- 1 Dr. Shiv Kumar Tomar
- Dr. Manish Rai
- Mr. Hari Kumar Sngh
- #Mr.JanakKapoor
- + Mr. SymitSrivastava
- 4 Mrs. Chhavi Sharma
- + Mrs. Inderpreet Kaur
- + Ms. Pooja Singh
- Ar. Talhachisti
- Marapoorva
- + Mr. Ravindra Suvastavli
- + Mr. B.S. Lal
 - Mr. Yash Pal Mehta





The welcome party for first year students of February organized by their seniors, the second year students on 07 March 2014. Several group dances, skits, singing performances really made the never intrants enjoy to the fullest. They also participated with all zeal & enthusiasm and displayed their cultural skill

After stupendors in highly connectitive rounds of day Question & Answer session the following:

B.tech1" you students were voted ed by a panel adges and a warded the titles will ated below:

: Deep III and y

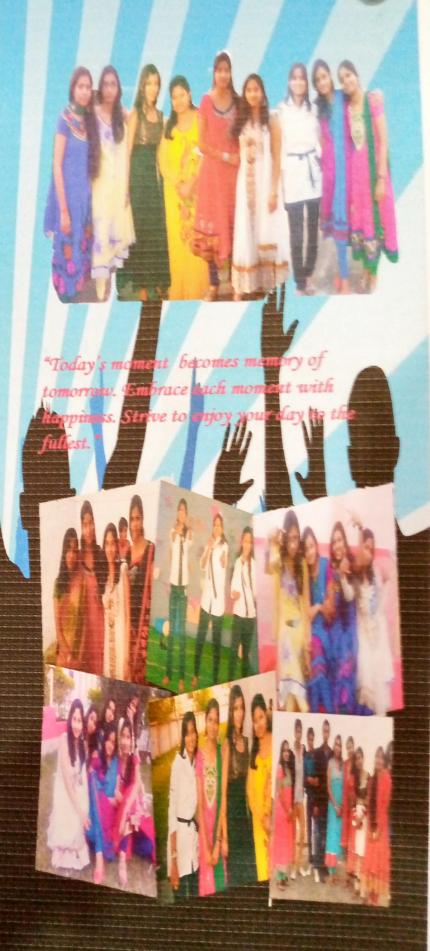
: Shalul war

Ravi Komer

Ir. Fr

Nimra

Firan Volt



NATIONAL CONFERENCE

The department of ELECTRONICS AND COMMUNICATION has organised a national conference (AECE14) on ADVANCES of ELECTRONICS AND COMMUNICATION ENGINEERING.

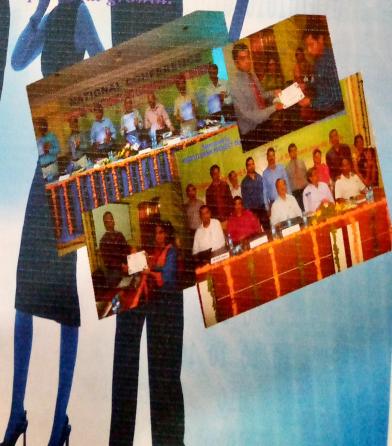
The idea of organizing this National conference on 'Advances of Electronics and communication Engineeringaimed to provide a national platform for the exchange of information on latest findings, new ideas and technical expertise among researchers, developers, engineers and students in India.

The Conference covered wide range of topics from RE Communication Microwave Engin VLSI circula Antenna Design, towork, Network security, Optical unication, Technology et mrtment h very good spo from Tya nstitutions of Incia.

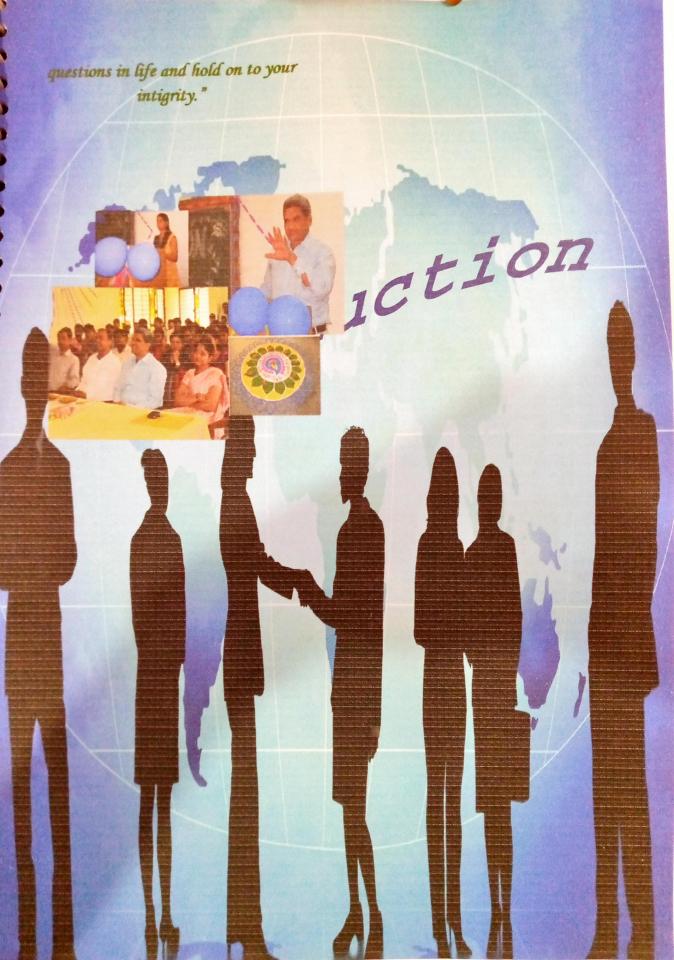
ECE14 contain hnical se poster session and d talks. gnificant deliberat out of 55 ubmitted papers w ected for ral or poster pres s; result n overall acceptanc f 60%. O wasa successful ev nised by **EPARTMENT ECTRO** ND COMMUNICT INEERIN

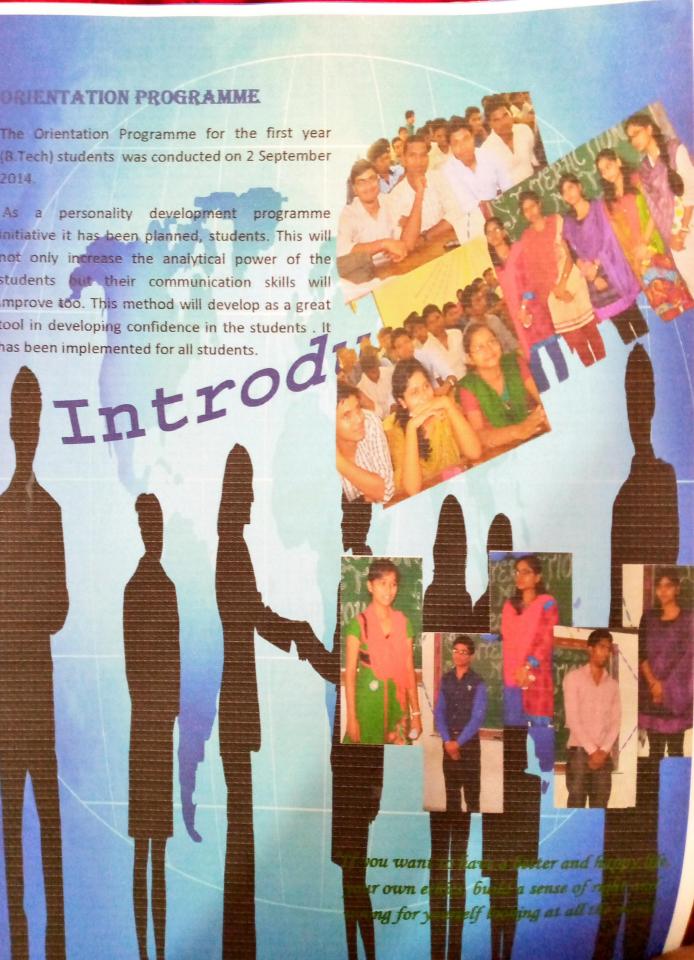


Take time to search within, we all mave the power to change and correct our mistakes towards our life journey. List the things you conscience tells you that you are doing wrong, appreciate the finding within, then make amendment today and discover your perhics require perhal growth.









TEACHER'S DAY

In India, 5th September is celebrated as Teacher's Day as a mark of tribute to the construction made by teachers to the society. 5th September is the birthday of great teacher Dr. SarvapalliRadhakrishnan who was a staunch believer of education and was the well known diplomat scholar, President of India and above all "A Teacher".

Communication Engineering, we also celebrate the teacher's day on 5th September, 2014 for paying tribute to all the teachers of bur department who are always ready to help the students in all the spheres of their lives, who always motivate us

for doing something great and achieve the heights of success in whatever we do.

"Instead of celebrating my birthday, It would be my proud privilege if 5th September is observed as Teacher's Day."

-Dr. SarvapalliRadhakrishnan





THE TOP 4 TECHNOLOGY TRENDS THAT WILL DOMINATE 2014:

With Smart IV shipments expected to reach 123 million in 2014 - Up from about 84 million in 2012 - we are poised to see explosive growth in this industry in the midst of this growin, we will continue to see fierce competition between major players like Samsung, Panasonic, and LG. thices will need to continue to drop, as more consumers the ability to use Netflix, Hulu, Amazon Instant Video and their web browser via their Two course, the development we're all waiting for in 2014 is the release of Apple's much anticipated iTV. It appears the iTV is now in the early development stage, and that Apple may be in the process of making a deal with time Warner to facilitate programming on Apple verices. The device is rumoured to include iCloud sync, the ability to control your iPhone, and ultra HD LCD panels, keep an eye out for this release as earl summer 2014.

2. Google Glass will still be n "ver and se" mode

While G yet been re ass h ed to the gener ve i enough about to know it's s lavs nology. With an units ex estin sell in 2013, and a several million in 2014, it's still a long way pred from common household technolo augmented reality glasses allow you to access information like email and texts, take handspictures and videos, effortlessly translate your voice, and even receive overlaid walking, cycling or driving directions, right within your field of vision.It's predicted that with Google Glass 2.0, and its companion, the Glass App Store, should be released to the general public sometime in 2014. Re on the lookout for competition in this market, particularly from major players like Samsung. I predict we'll see much of this competition almed at niche markets like

We've seen a huge rise in the popularity of 3D printing this year, coupled with a dramatic fall in pricing. The ability to easily create multi-layered products that are actually usable - well, that's pretty amazing. I'll be watching for a movement towards simple products being produced close to home, and to greater customization given the ease of manufacturing. I think it's inevitable that manufacturing in countries such as China will become less appealing and lucrative for businesses given the high costs of and managing overseas contracts. I don't changes to reach the ull effect in 2014, h veve pelie businesses will be sta ng to ho his w affect their production plans 201 nd be

The invement toward actural acguage archivill make sourch more accurate and

The was a time when we used terms like "personal digital assistant" to describe a hand-held calendar. Oh, now times have changed. With the emergence of intelligent personal assistants like Google Now and Apple's Series, the goal is to have information intuitively delivered to you often before you even ask for it. The shift seems to be away from having to actively request data, and instead to have it passively delivered to your device. Natural language search will continue to overtake keyword based search, as seen by Google's move towards longer, note natural searches in its recent release of Hummingbird, Google's largest algorithm update thus far.

ashiSolanki(IIIrd Yelr)

SHIPMS

ShivanetAvarwal (III'd year)

Missi selfastogy mall



The fire

spin ectal that uses an off the shelf smartphone for a brain has completed checkett and sent back data confirming all systems are "go" for the spry spacefarer Phone Sor "4" and the approximately 10 centimeters square, weighs only about one kilogram and was developed at NASA's Ames Research Center in Moffett Field, Calif. It is first of the Phone Satfamily to use a two way S-band radio, allowing engineers to command the satellite from Earth. It is confirming the viability of using smartphones and other commercially available electronics in satellites destined for low Earth orbit.

It's great to hear from NASA's most recentcubesat pacecraft, said AnimaelGazarik, NASA's associate technology in Washington.

All plants to penuig up the high frontier of explorers who can take the distance of explorers who can take the distance of explorers who can take the distance of the distance of the distance of the distance of the distance how well measure how well measure how well amovative to the distance of the dista

A cost effective battery that can store solar power in works

power! Well, a battery of this kind is being worked upon by the Indian Institute of Technology(IIT). Madras. What is more interesting is that it will be a cost effective battery technology, which will be capable of storing large quantity of electricity.

Decan chronicle that several faculty at the institute had started their research on aptimization of electricity and appropriate battery technology. We are working on lower life cycle cost. We are looking at oakier, non-portable, batteries, which would be used for fived use. Center for Decentralised Photovoltate Systems in our institute is working on how to handle problem of load shedding and harness solar power locally, he added. He shared that India is a country that gets solar power for over 300 days in a year from 9am to 4pm with variations. However, owing to the solar tech that the country has at present, there is a mismatch in production and storage.



SulbhaSingh(IIIrd Year)

Cellphone Hazards And Recommendate



Mobile phones use electromagnetic district in this interest of large which may be affiful to harhar freigh. They communicate in another ratio ways known a network of free to the only in the collection.

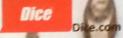
Wave is electromagnetic field. They are characterised by energy per photon of less than about they wavelength greater than 100 pm and frequency times from 35 to 15 to Monte photos have been famous to cause charge at the brain activity, reaction than and sleep natterns, the length of cellphone call.

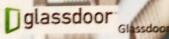
Competitive Exam Sites

- GATE 2014 & IAM 2014rw.gate/likep.ac.in/gate20
- HOWN ENGINEERING SERVICES(165)-
- . CAT 2013-
- · GLANT
- . GRADUATE RECORDIEXAM (GRE)
- · XAT 2014(Xavier Aptitude Test)-
- MAT 2013 (anducted by All India Managen Association AIMA)-
- AFCAT 201 Air Force Common Admission Test)-

The best sites for finding job

careerbuilder CareerBuilder.com



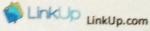


Linked in



Indeed.com

monster.com Monster.com



www.naukri.com

www.fresherworld.com

ww.governmentjobsalerts.co

ww.timesjobs.com

Electronics Sites

- in.god addy.com/
- www.esnow.com/ ectronics/
- www.microchip.com/touch
- www.best-electronics-ca.com/
- www.electronicsforu.com/newelectronics/ ontact
- worw.infileam.com/Electronics
- www.top2/sites.com/top electro circuits-sites
- www.electronicsforu.com/electronicsforu/C
- electronics.toptenreviews
- electronicsforu.com

Achievements

- Mr. SARVESH GUPTA has been placed in INTEL CORPORATION.
- Mr. Tarun Singh (2009 Batch) has been placed at DRDO as a research scientist, New
- Mr. Raunak Gupta (2009 Batch) has qualified GATE-2013.
- Mr. AkarkitUpadhyay (2008 Batch) had qualified GATE-2012 & is pursuing M.tech. at NIT Jaipur.

TECH NEWS

1. element14 has online resource for dev tools

A new online resource has been launched by element14 to help engineers choose the right development tool for their design. The dedicated design centre aims to support engineers at each step in the design process, by providing them with relevant product information, support, data sheets, stock and supply data, as well as images and videos. Developed based on customer feedback and research, the site provides a search and select functionality by keyword and part number, filtering by manufacturer, core architecture and silicon family. Customers can then purchase the development tools if they so wish on the transactional site.

2. Wireless MCU suits low power applications



Texas Instruments has launched the SimpleLink CC2540T, a low power wireless MCU that can operate in temperatures ranging from -40 to 125°C. Featuring Bluetooth Low Energy functionality and USB connectivity, the CC2540T is said to be a complete solution supporting easier development. Amongst benefits claimed by the company include a small form factor, a range of personalised preferences and a range of development tools and software. According to the company, to part comes with the BLE-Stack 1.4.0, features of which include: overlapped processing, allowing concurrent processing, while the radio is active; improved over the air firmware downloads; and improved SPI and UART drivers. The CC2540T features a single cycle 8051 compatible core with three memory access busses, a debug interface and an 18 input extended interrupt unit. Along with 256kbyte of flash and 8kbyte of SRAM, the part also offers a

30kHz 12bit A/D converter with eight channels, three general purpose timers and two USARTs. Said to be suitable for systems where very low power consumption is required, the CC2540T offers low power sleep modes and short transition times between operating modes are said to further enable low power consumption. The 2.4GHz radio has a link budget of 97dB, suitable for long range communications without the need for an external front end. Applications for the part are said to include industrial and consumer lighting, wireless human machine interfaces and remote displays and cable replacement.

3. Mouser to stock Broadcom's mass market products



Mouser Electronics has signed a global distribution agreement with Broadcom under which a will offer same day shipping on a variety of Brondcom products intended for mass markets, including the Wireless Internet Connectivity for Embedded Devices (WICED) platform. "Mouser's semiconductor centric marketing and search engine optimisation capabilities make it an ideal choice as our Commerce distributor," said Vince Brocato, Breadcom's senior director, global channel. "Our relationship with Mouser will allow us to expand our customer base and continue to scale our platform offerings." Broadcom says its WICED Wi-Fi and WICED Smart development platforms provide OEMs with simplified implementation of wireless correctivity, resulting in faster time to market for a broad sauge of Internet of Things innovations. "Mouser is thrilled to serve as Broadcom's first online catalogue distributor," said Jeff Newell, Mouser's senior vice president of products. "Mouser's partnership with Broadcom provides customers worldwide with an enhanced selection of industry-leading products including Wi-Pi Bluetooth Smart and leading edge RoboSwitch and StrataConnect Ethernet devices."

RashiSolanki (IIIrd Year)

APTITUDE QUESTIONS-

Q 1 An accurate clock shows 8 o clock in the morning. Through how may degrees will the hour hand rotate when the clock shows 2 o clock in the afternoon?

a) 1414 b) 1582 c) 150° d) 180°

O 7 A is two years older than B who is two eas old as C if the total of the ages of A, B and C be 27, the how old is B?

a) 7 b) 9 c) 8 6) 10

Q 3 Present ages of Sameer and Anand are in the ratio of 5: 4 respectively. Three years hence, the ratio of their ages will become 11: 9 respectively. What is Anand's present age in years?

a) 24 b) 40 c) 27 d) Cannot be determined

Q.4 A pump can fill a tank with water in 2 hours. Because

of a leak, it took 23 hours to fill the tank. The mak can drain all the water of the tank in

a) I hour b) 7 hourse) 8 hours d) 14 hours

Q.5 A tank is filled by three pipes with uniform file. The first two pipes operating simultaneously fill the talk in the same time during which the tank is filled by the wind pipe alone. The second pipe fills the tank 5 hours fasts than the first pipe and 4 hours slower than the third pipe. The time required by the first pipe is:

hours b) 10 hours c) 15 hours d) 30 hours

Q.5 Introducing a boy, a girl said, "He is the son of the daughter of the father of my uncle." How is the boy related to the girl?

a) Brother b) Nephew c) Uncle d) Son-in-law

2.7 If A + B means A is the brother of B; A - B means A is the sister of B and A x B means A is the father of B which of the following means that C is the son of M? HALLAND BY ME TO BE SEEN THE SECOND BY SECOND

Q 8 A and 8 colopart in 100 m rate account to the A green B a start of 8 m and still be action for a second TE-

a) 5.45 kept b) 14 kmph c)4.25km; 4.41 0.5 0.44

Q.) In a 10s or race, Alean give B 10s rant to be a little same race B can give C:

all m by avenc) 27 m d) y m

Q to Find the odd man out- (3, 5, 11, 12, 17, 11)

a) 21 51 17 c1 14 d) 3

QuitWhat was the day of the week 15th Argent, M

es Sentes B Monday

() 12 The sum of sees of 5 children both as the street of 3 years each is 60 years. What is the see of the sumposts child?

at 4 years

Answer Key: Q.1 (d), Q.2 (d), Q.3 (a), Q.4(d), Q.5 (a), Q.7 (d), Q.8 (b), Q.9 (b), Q.10 (c), Q.11 (d), Q.12(a)

