In this Issue!

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Smart Wig.....Wearable Computing

The new "Smart Wig" from Japan might be just what you need. The techno-toupe, which can read the wearer's brainwaves and direct them to their destination with onboard GPS, is the latest-and possibly the wackiest addition to the world of wearable computing. The country that gave us world challenging hits like walkman and pocket calculator, now offers a hi-tech hairpiece.

The invention comes in three varieties, each designed to make life easier for the follically challenged. Wearers of Presentation wig will be able to remotely control a laser pointer from their mop-top.

They can move forward through a power point slideshow by tugging the right sideburn and go back a page by pulling on the left. The navigation wig uses GPS to guide users to their destination with tiny vibrations on different parts of the head.

The sensing Wig monitors body temperature, blood pressure and brain waves and can also record sounds and images to allow wearers to play back their day.

The developer said the "natural appearance" of the wig – which can be made from human hair-, would be selling point.

Self Healing Batteries

Scientists have invented a battery electrode that heals itself, paving way for next generation of long-lasting batteries for electric cars, cell phones and other electronic devices.

The self-healing electrode is made from silicon micro particles that are widely used in the semiconductor and solar cell industry. The secret behind the invention is a stretchy polymer that coats the electrode binds it together and spontaneously helps tiny cracks that develop during battery operation, according to Stanford University researchers and colleagues.

Chao Wang, a postdoctoral researcher at Stanford developed the self-healing polymer in the lab of Zhenan Bao, a professor in chemical engineering, whose group has been working on flexible electronic skin for use in robots, sensors, prosthetic limbs and other applications.

For battery project Chao added tiny nano particles of carbon to the polymer so it would conduct electricity. The electrodes worked for about 100 charge-discharge cycles without energy storage capacity. That's still quite a way from the goal of about 500 cycles for cell phones and 3,000 cycles for an electric vehicle.

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OK Google- voice search on Google

Surfing the web has just become even easier. On 26th Nov, 2013, Google released the Google Voice Search Hotword extension allowing users to enjoy the hands-free benefits of "OK Google" voice search on their desktops. This convenient interface was recently integrated into the latest version of the Android OS, KitKat, and now appears to be spreading its influence.

The 'OK Google' feature lets users activate Google search without having to push a button. The feature, which was earlier exclusive to the Nexus 5, is now available to users using the Chrome browser on their desktop.

With OK Google when you are using Chrome. Hands-free. No typing. Simply say "Ok Google" and then ask your question," explains the company. This extension sends your question to Google only when it hears the phrase "OK Google."

Once you've downloaded the free extension and enabled a microphone, an icon will appear in your Google search bar. Simply click the icon or say "OK Google," and Google launches into its familiar voice-activated interface. As you speak, Google will transcribe your search and after a slight pause will launch into a web results window. A smaller display appears if you activate the extension on a web results page.

It's basically the same Google search experience only voice activated. It seems like the next step for this technology would be to integrate it directly into Chrome and users to access the voice service no matter what webpage they're on.

Much like its mobile sibling, the voice recognition is impressive though it might be awkward to use in a work environment. The service is only available in English and in the U.S.

Upcoming Technologies

Sound Link- Mini Bluetooth speaker

Better sound in the palm of your hand, plays where you play

Enjoy your music on the go, everywhere you go. The SoundLink Mini *Bluetooth* speaker delivers full, natural sound from an ultra-compact speaker that fits in the palm of your hand. It connects wirelessly to your smartphone, tablet or other *Bluetooth* device, so you can listen to your music, videos or games anytime, anywhere. Just grab it and go.

The speaker has a range of about 30 feet, so you can enjoy the sound you want without wires. It pairs easily with your smart phone, iPad or other *Bluetooth* device. And it remembers the most recent six devices you've used, so reconnecting is even simpler.

Easy operation, elegant design

The SoundLink Mini speaker is designed for sleek simplicity. Its single-piece aluminum casing is both attractive and durable. The speaker features power and volume buttons—you control all other functions from your *Bluetooth* device. Additional soft covers allow you to customize the appearance of your speaker while providing added protection for the aluminum body from scratches or abrasions. Available in Blue, Orange and Green shades.

Happenings @ Dept. of I.T. in the month of November, 2013

Workshop on PHP by Prof. Yogesh Mittal & Mr. Hemant Kumar for MCA students

On 19th November, 2013, CSI-Student Branch at I.T.S, Department of I.T. organized one workshop for MCA students on the Latest Technology Trends: Cloud Computing, Mobile computing, Free & Open Source Software (FOSS), Responsive Web Design, Embedded Systems, PHP, Perl, Python and other scripting languages. He told about the origin and historical background of PHP. He motivated students for looking lucrative career in web designing using PHP after completing his MCA programme.

He demonstrated the web applications which have been developed in New Edge Technologies. He motivated the students that they can earn by developing their own web-applications, innovative ideas using PHP while they are studying their course and encouraged entrepreneurship among students

He introduced the WAMP Server/ XAMP framework, to the students, which is used in developing the applications and told how it is to be installed. He discussed how WAMP is installed step-by-step and let the students to write the steps so that they can install the WAMP later on whenever they want to work using PHP.

Mr. Mittal introduced the students with the editor WordPress which is used in writing PHP code. Both the resource persons informed that there are lots of job opportunities using PHP for web designing. People are making money sitting home bidding for the project and developing their own/ for client the web-applications and uploading them on the Internet.

Faculty Participation

Date of event	Participant	Theme	Venue
8th Nov,2013 to 9th Nov, 2013	Prof. Abhay Ray	Two days Faculty Development Programme on "Website Development through PHP	BVICAM, New Delhi
16th Nov, 2013	Prof. Rakesh Roshan	Training program on " Cloud Computing"	Gitarattan International Business School, Delhi and sponsored by AICTE, New Delhi
16th Nov, 2013	Prof. Sunil Kr. Pandey	Faculty Development Programme on "High Performance Computing using Oracle 12c" organized by Oracle corporation	BVICAM, New Delhi
16th Nov, 2013	Prof. Puja Dhar	Faculty Development Programme on "High Performance Computing using Oracle 12c" organized by Oracle corporation	BVICAM, New Delhi

Our Shining Stars

Congratulations!

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RAJAT RASTOGI

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BINTESH KUMAR

Congratulations to all the placed students of MCA @ITS, Mohan Nagar

Placement Quiz Series

"Reasoning"

1) 'Hour' is related to 'Second' in the same way 'Tertiary' is related to?
   a. Secondary
   b. Primary
   c. Intermediary
   d. Ordinary

2) 'Data Processing' is related to 'Raw Data' in the same way as 'College' is related to?
   a. Students
   b. Principal
   c. Teacher
   d. Building

3) 'Bra**ille**' is related to 'Blindness' in the same way as 'sign' is related to?
   a. Exceptional
   b. Touch
   c. Deafness
   d. Presentation

4) Introducing a girl Rajesh said, "Her mother is the only daughter of my mother-in-law." How is Rajesh related to that girl?
   a. Uncle
   b. Father
   c. Brother
   d. Husband

5) Four women A,B,C,D and four men E,F,G,H are sitting in a circle round a table facing each other in such a way that (i) No two women or two men are sitting side by side (ii) C, who is sitting between G and E, is facing D (iii) F is between D and A and is facing G (iv) H is to the right of B. Based on the given information Who is sitting to the left of A ?
   a. E
   b. F
   c. G
   d. H

Solutions will be published in December issue

Prepared by:
Prof. Rakesh Roshan
Department of I.T.
I.T.S, Mohan Nagar , Gzb.

Answer to last Placement Quiz Series

1 -C

2-C

3-B

4-B

5-C

Announcement and Contact Details

VIBRANCE is an E-magazine of Department of I.T, I.T.S, Ghaziabad. We look forward to the contribution from our students, alumni, faculty members and industry experts.

Contributors are advised to send their contribution to our editorial team at:
sakshiguptaag@its.edu.in (Sakshi Gupta-MCA-3rd yr.)
pankuribansal@its.edu.in (Pankuri Bansal- MCA- 2nd yr.)
shilpisharma@its.edu.in (Shilpi Sharma MCA-3rd yr.)
pujadhar@its.edu.in (Prof. Puja Dhar)