

# TECHNOBYTES

Kristu Jayanti College of Management and Technology, Bangalore | Department of MCA

# haarmanthan

"India has all the potential and unlimited opportunities to make a global impact" said Dr. K. Kasturirangan addressing the gathering on the Vichaarmanthan at Kristu Jayanti College on 9th February. Vichaarmanthan is a platform for the students of Kristu Jayanti College to interact with the global and Indian visionaries and churn their thoughts to bring the best idea into reality. Dr. Padma Vibushan Dr. K. Kasturirangan, member Planning Commission, Government of India, Chairman Jawaharlal Nehru University was the chief guest of the 15th edition of Vichaarmanthan. Rev. Fr. Jose P.J, Principal & Financial Administrator; Rev. Fr. Augustine George, Head of Computer science Department, Prof. Jeo Joy, Prof. Anita, Staff Coordinators , Computer science Department; and Sadia Fudoos, Student Coordinator of Computer science Department were also



"Indian needs overall development not only in technology but even in the spheres of food. water, education and medicine" said Dr. K. Kasturirangan, while addressing the students at Kristu Jayanti College

present.

K. changed our country after "Science lot. We have grown in Kasturirangan. investment and there is ogy but even in the spheres in research area. and medicine. world's third

economic power by 2025.

Dr. K. Kasturiran-

gan inspired the youth of country to pursue research in scientific field and come out the conventional educational system. He emphasised that overall development in our country can be achieved only by the promotion of science and technology in the field of education, health, energy, water and so on. The science and research create lot of opportunities Padma Vibushan for the young generation to Kasturirangan study about this field and enlightened the crowd with bring development by overhis view about what coming the challenges. kindles vour independence and how imagination. Specialisation India can develop a new helps in nation development holistic perspective. Our and better living conditions. country has remarkable Each career is multidimengrowth of 8% in GDP index. sional and is not confined "It shows we have grown a into itself" observed Dr. K.

Dr. K. Kasturiranmore scope in our country" gan has shared his experisaid Dr. Kasturirangan, ence in research and work Indian needs overall devel- in ISRO with the students opment not only in technol- and stimulated their interest of food, water, education explained the limitation of He conventional education and discussed the possibility of the unlimited scopes of India in emerging as the borderline studies. The largest emerging borderline studies provide the convergence of two or more conventional area that is more challenging and exciting. "This is the most interesting era to get into the career of your choice. With the transmission of culture, lifelong learning, the opportunities our country gives and the excitement it provides, sky is the limit" said Dr. K. Kasturirangan.

#### Rank Holders 2008 - 11Batch

Students of every batch of MCA have taken the department to greater height by excelling in academis along with all other activities. From the past years, the department has always secured university ranks. The most recent addition to this success story is the achievement of Anuradha rani and Manjula N. of 2008-11 batch secured the 2nd and the 5th rank in the MCA examination conducted by the Bangalore University.







It is that time of the vear when another edition of 'technobytes' is seeing light: time for creative ideas, thoughts. reflections. academic exercises to grapple with the complex issues from the area of computers and related applications and the up of this new child. human interest stories from the MCA Department.

the team behind the dressing

May it bring up the sense of achievement of all who worked I commend the enthusiasm for it to see light and let it be a and the spirit with which this feast for the intellect of all who new issue of 'technobytes' is read and enjoy the content of coming out and congratulate the new issue of 'technobytes'.

# HOD message

as the age of information innovate. Technology has technology. The volume, democratized the process variety and velocity of of innovation by giving circulating around the from the startups and the world is quite amazing, stalwarts alike. The obso-The challenge of trans- lescence of technological forming this tremendous breakthroughs with terrifyamount of information or ing rapidity creates data into meaningful and challenges and opportuniproductive sources of ties at the same time. knowledge can achieved with the help of created a situation in technology. technology basically deals competitive with developing a frame- their career by undergoing work for collecting, classi- continuous 'skilling' and fying and analyzing data companies need to be to provide products, focusing more on radical services and solutions innovations rather than which would make our incremental innovations. lives simple, productive and more meaningful.

technology played a very important innovation process. As per role in providing a level a study conducted by playing field for the people Harvard Business School with the power of intellect people with 'T'shaped horizons of knowledge in the vertical

21st century is aptly called and the passion information equal importance to ideas be These changes have Information which people need to be throughout

> As innovation is an offshoot of the power of Information human intellect, people has also should be put at the centre



Rev. Fr. **Augustine George** 

knowledge are more good at innovation. The horizontal line of alphabet 'T' shows a person's generalized knowledge in a number of domains which would give him the inputs to identify the gaps in existing products, services and processes. The vertical line of alphabet 'T" shows in- depth and specialized knowledge in a particular domain which would help a person to focus on research oriented initiatives to develop new applications to bridge the gaps in existing R&D.

An ideal combination of generalized and specialized knowledge requirements to make a person innovative can be worked out by extending the breadth of knowledge bution to this knowledge in few domains and by diving deep into the knowledge in your core opportunity to congratulate and domain. Connecting and communicating with people with similar ideas and interests would expand your to make this endeavor a grand

and horizontal directions.. This networking and knowledge sharing will lead to convergence of ideas which will get translated into concrete research outcomes.

Dept of MCA is entrusted with the responsibility to provide such networking opportunities to the students. This newsletter is such a novel initiative which would help the faculty and students of our department to initiate thought provoking ideas and discussions. It also includes a snapshot of all the important events and initiatives undertaken by the MCA department. The success of this newsletter depends on the extent of your active involvement and contrisharing process. I take this thank all the faculty and students who worked tirelessly

### MCA Program at a Glance

The MCA department of Kristu Jayanti College of Management and Technology was established in the year 2004 with the objective of imparting technical education to aspiring youth and also to mould them into professionally competent workforce. At present there are 134 students in the department. As part of enriching the faculty resources, the teachers are encouraged to pursue research in different technical areas. 7 teachers are currently pursuing their Ph.D., in various universities.

To achieve academic excellence several teaching methods have been followed like class room teaching, projects, practical sessions, students seminars, and peer group learning. In order to bridge the knowledge gap between industrial requirements and the curriculum quest lectures and seminars are organized on certain relevant topics related to various evolving fields in IT industry. These sessions are conducted on a continuing basis by experts from industry. Intra and Inter-Collegiate Fests are conducted every year as a part of experiential learning. The students participated in various Inter-collegiate IT-fests and won many prizes. Our students secure at least two university ranks every year. Industrial visits are arranged every year.

To promote professionalism among the student's activities like Attitudinal Work shop, Soft Skills, Language Enhancement Programme, Aptitude Enhancement Programme are conducted.

The special features of the department include the successful conduct of National Conference on Current Trends



Prof. Kumar .R MCA -Coordinator

Advanced Computing (CTAC) once in a year. The two editions of conferences were sponsored by ISRO. This year the department organizes the International Conference on Current Trends in Advanced Computing (ICCTAC) during 15th-16th February 2013. ICCTAC is a platform for exhibiting recent research and technical developments in the area of Computer Science, which include Green, Grid, Cloud and Heterogeneous Computing. The conference is organized in association with International Journal of Computer Applications (IJCA), sponsored by ISRO, Bangalore. The conference will be published by IJCA.

As part of knowledge sharing, peer to peer teaching is motivated amongst students. A certificate course in Web Designing is also conducted every year for the UG students. MCA students are persons the resource supported by the faculty members

Value Added Courses have been incorporated in the regular academic curriculum in order to enable the students imbibe industry updates, employability and global competitiveness. The value added programs like CCNA and J2EE are conducted. The students s have been placed in Google, NIIT Technologies, UST Global, Alti Source, WOS Technologies, Wipro, Infosys, Keynote and Cognizant, Fidelity Investments etc.

The department has Industry Institute Interface(III) for organizing seminar, workshops from eminent personalities in IT industry.



Prof. Ambika Dept. of MCA

multioffers an a programming, it also oriented applications Abstract develops your object-oriented imperative programming

## F# - Functional Programming Language

language includes access which is not explicitly typed, type inference and types or mutable types. paradigm language not Top-level declarations. It is enormous productivity Language (ML) and is Programming boost through functional compatible with Object and mentation.

of Microsoft's such new lation by the compiler problem

If you find hard what you expect Categorical to predict the results of existing Language (OCaml) imple- to hidden dependencies flow

you find It is strongly yourself writing the same difficult to split tasks into erable and can build .NET skills. It was initially devel-typed language that uses patterns over and over logically oped by Don Syme at type inference and helps again, leaving little time parts that can be run Microsoft Research devel- in automatic deduction of for genuinely different and concurrently on multiple nous and parallelism for oper division. Advantage data types during compi- interesting parts of the processor cores?

to all the great tools and declared by the user. F# to reason about code, the first language that libraries of the .NET supports CLI types and worrying about whether allowed the combination platform. Truths of F# objects but extends the each statement will of object-oriented and include .NET Accessibility, type system and catego- execute in the right order functional approaches. .NET Assembly, Strongly- rizes types as immutable and in the right conditions Other important If you find it hard Advantages of F # in devel-

to express abstractions oping image database variant of Meta Benefits of Functional that hide how the code executes and specify only typed and .NET friendly

find vou independent components

If your code tion behave differently in the real world while in unit operation test

Functional Languages

LISP, created by John McCarthy in 1958, is based on the lambda approach will definitely be calculus theory. It a very useful in image flexible pioneered with many Content Based Image programming ideas like Retrieval systems and data structures, garbage makes process easier in collection and dynamic retrieving. typing. In the 1970, Robin Milner developed ML which added notion of types and allows us to write "generic" functions in the same way what we do in .NET generics. OCaml, a pragmatic extension to ML language

If you find hard appeared in 1996. It was

Simple, strongly

It has features for If you struggle objects, queries, async Machine changing your code, due with asynchronous control agents, parallel and units of measure

Highly interop-

Has image database genera-

Asynchronous can performed without the need of explicit callbacks

The above suggested language database generation for

# **CROSSWORD & PUZZLE**

	1	2		3		
4		H	5		1	
Ξ		H	7			6
8						-
_		Н	9		1	

#### Across

The process of recreating files which have disappeared, or corrupted, from

- 5. Similar to a 'Fix', a temporary arrangement used to overcome
- software problems or glitches 7. A mechanical device used by software developers to prevent unlicensed use of their

product

6. Short for Robot, - the ter m describes little programs designed to perform automated

tasks on the internet

9. An individual whose primary aim in life is to penetrate the security defences of large,

sophisticated, computer systems

#### Down

- is the transformation of data into another usually unrecognisable form
- 3. An is a private network which uses the internet protocols and extends

beyond an organisation's premises

4 A collection of files tables forms reports, etc., held on computer media that have a

predictable relationship with each other for indexing, updating, and retrieval purposes

8. The human nervous system, as opposed to electronic computer hardware or software

#### IT OUIZ TIME

- 1. What is ISRO's equivalent of Google Earth
- 2. Which famous company's logo is called Larry the bird?
- 3. Who is the first Indian woman to head a missile project in India?
- 4. Which company is the official IT partner of the London Olympics 2012?
- 5. What is Southwestern Bell Corporation now better known as?
- 6. Which word denotes 1021?
- 7. Drew Houston conceived the idea after repeatedly forgetting his USB Flash drive while he was a student at MIT. What creation did this lead to?
- 8. What is macsyma, a programming language used for?
- 9. Name the game which is being used by scientists to study compaction of granular matter.It is used widely to stud the thermodynamics of nano particles.
- 10. Sabeer Bhatia's 'SabseBolo' acquired this company recently?

#### HEXAGONY

Can you place the hexagons into the grid, so that where any hexagon touches another along a straight line, the contents of both triangles is the same? No rotation of any hexagon is allowed!





#### PAPER POWERS BATTERY BREAKTHROUGH

Ms. Moksha lakshmi ecturer, Dept. of CS

fabrication of device with atomic or infusion of aligned carbon • A thin lithium film is laminated molecular scale precision .Device nanotubes that are each approxi- over the exposed cellulose surface with minimum feature size less mately one millionth of a centime- which completes our paper than 100 nanometer (nm) are considered to be product of nanotechnology. A nanometer is one billionth of a meter (10-9 m) and is the unit of length that is generally most appropriate for describing the size of single molecules. The nanoscale marks the nebulous boundary between the classical and quantum mechanical world thus, realization of nanotechnology promises to bring revolutionary capabilities .Fabrication of Nanomachines nanoelectronics and other nanodevices will undoubtedly solve an enormous amount of the problem faced by mankind today. However immanent breakthroughs in computer science and medicine will be where the real potential of nanotechnology will be first be achieved.

NanoScience is an interdisciplinary field that seeks to bring about mature nanotechnology. One such boon of Nanotechnology is Paper Battery, A paper Battery is a battery engineered to use a paper -thin sheet of cellulose infused with aligned carbon nanotubes .A paper battery act as both a high-energy battery and super capacitor, combining two components that are separate in traditional electronics. This combination allows the battery to provide both long-term, steady power production and burst of energy .Non-toxic flexible paper batteries have the potential to power the next generation of electronics, medical device and hybrid vehicles, allowing for radical new designs and medical technology. Paper batteries may be folded, cut or otherwise shaped for different applications without any loss of integrity or efficiency. Cutting one in half halves its energy production. Stacking them multiplies power output. Early prototypes of the device are able to produce 2.5 volts of electricity from a sample the size of a postage

The devices are formed Nanotechnology is define as by combining cellulose with an absorbed and dried out in an oven.



ter thick. The carbon is what gives tional differences. the batteries their black color. Celsius.

nanotubes are embedded in a it more energy efficient and lighter. sheet of paper soaked in ionic liquid electrolytes, which conduct folded or cut.

Construction and Structure Construction Paper Battery consist of

- Cathode: Carbon Nanotubes (CNT)
- Anode: Lithium metal (Li+)
- Electrolyte: All electrolytes (incl. bio electrolytes like blood, sweat and urine)
- · Separator: Paper (Cellulose) Structure

understood in the following steps:

- desired shape and size is taken.
- a simple Mayer rod method, the in its electronic devices. specially formulated ink
- with suitable substrates (known as CNT ink) is spread over the paper ies could act as power sources for sample.
- enables high contacting surface

area between the paper and

nanotubes after the solvent is

battery. This paper battery is then connected to the aluminum over time to generate current collectors which connect it to the external load.

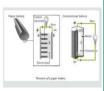
• The working of a paper battery is similar to an electrochemical battery except with the construc-

The paper battery is These tiny filaments act like the designed to use a paper-thin sheet advocated for by the electrode s found in a traditional of cellulose (which is the major battery, conducting electricity constituent of regular paper, when the paper comes into contact among other things) infused with with an ionic liquid solution. Ionic aligned carbon nanotubes. The liquids contain no water, which nanotubes act as electrodes, means that there is nothing to allowing the storage devices to freeze or evaporate in extreme conduct electricity. The battery will environmental conditions. As a currently provide a low, steady result, paper batteries can function power output, as well as a super between -75 and 150 degrees capacitor's quick burst of energy. While a conventional battery The battery contains contains a number of separate carbon nanotubes, each about one components, the paper battery millionth of a centimeter thick, integrates all of the battery compowhich act as an electrode. The nents in a single structure, making

Widespread commercial the electricity. The flexible battery deployment of paper batteries will can function even if it is rolled up, rely on the development of more inexpensive manufacturing techniques for carbon nanotubes. As a result of the potentially transformative applications in electronics, aerospace, hybrid vehicles and medical science, however, numerous companies and organizations are pursuing the development of paper batteries. In addition to the developments announced in 2007 at RPI and MIT, researchers Singapore in The process of construction can be announced that they had developed a paper battery powered by • Firstly, a common Xerox paper of ionic solutions in 2005. NEC has also invested in R & D into paper Next, by conformal coating using batteries for potential applications

Specialized paper batterany number of devices implanted • The strong capillary force in paper in humans and animals, including

RFID tags, cosmetics, drug-delivery systems and pacemakers. A capacitor introduced into an organism could be implanted fully dry and then be gradually exposed to bodily fluids voltage. Paper batteries are also biodegradable, a need only partially addressed by current e-cycling and other disposal electronics methods increasingly green computing movement.



#### Puzzle -Fictional links

Each question below as a pair of anagrams that, arranged, spell out the names of the two fictional characters who have Something in common Work out who they all are?

E.g.: 'PERT THY ROAR' (5, 6) and 'FAG LAND' (7) ANS: 'Harry Potter' and 'Gandalf' **Ouestions:** 1.'Paper Net' (5, 3) and 'A Catkin Hoop' (7, 4) 2.'Foul Web' (7) and 'Turk Rang Hi' (4, 6) 3.'Hi Doornob' (5, 4) and 'Horrid deltoid tingle' (6, 3, 4.'Sad Job Men (5, 4) and 'Sew Apron Suit (6, 6) 5.'adjoin Insane' (7, 5) and 'Calf or Rat (4, 5) 6.'Sir Wilt Veto' (6, 5) and 'Go Score (7) 7.'Nose Morphism' and 'Use Lucky Memo' (6, 5) 8.'More Shell Shock' (8, 6)

and 'Primal Memo' (4, 6)



By Rahul Krishnan MCA i Sem

The Devil May Cry game series has acquired a huge fan base since it was first introduced in 2001, and it is considered a classic among hack n' slash fans. So when a reboot of the series was announced it was met with both tion. great excitement and doubt. This time around the DMC game is humans developed by Ninja Theory, the team behind Heavenly Sword and Enslaved: Odyssey to the west. Perhaps the most controversial issue was not the game itself but the new style of Dante - the game's main character - which many believed that did not fit the character. Being a big fan of the franchise I have to admit that I also

was not convinced, but on the

other hand you cannot really

judge a game until you play it, and

in the end the new DMC, no

matter the changes, is still a

worthy part of the Devil May Cry

franchise.

Although there are quite a few differences from the older games DMC still maintains a similar style when it comes to the story. This Dante is much younger, follows a rather "carefree" lifestyle, and doesn't seem to be giving much of a damn about anything. Where in the previous games Dante was half-demon and half-human this time around his origin story has been slightly changed, making him a son of

## **DEVIL MAY CRY**

god, a demon-angel hybrid, which grants him the power to see and also harm demons. In this the Dante's new hairstyle – is the only be weakened by using modernized version of the story urban/contemporary demons have crossed from their world called Limbo to the human world; they live in disguise among people and they have managed to get total control over the media. which consequently allows them to also have control over the majority of the human popula-

all Of course not have become the mindless soldier of the demons; to break their control over people. In general, the story plays on the demons using the media in order to hypnotize the masses and keep them in hand, which is an interesting assumption and is executed quite well. The plot may be rather different than the one of the original series but there are little references scattered all over the game showing that the people in



Ninja Theory not only did their homework but are also quite familiar with the Devil May Cry core story.

The first thing one will notice special fighting combos. In while playing the game - besides fact, some enemies can which replaces the gothic attack. locations of the previous versions. The various levels are different In the end the comparison and cleverly designed and for sure between DMC and the atmosphere is the one of the previous Devil May Cry strongest aspects of DMC. It is obvious that a lot of work was put also a bit unfair, as the title in creating the game, the graphics more than holds its own, are superb and the cut scenes even as an individual game. blend quite smoothly with the Dante may not be exactly game play.

If there is one part of DMC that he still manages to become an organization by the name of truly remains faithful to the likeable and eventually also 'The Oder' has been formed trying previous Devil May Cry games grow as a character. The that's the combat Although it has been significantly set up quite well and the refurbished, it basically uses the same fighting mechanisms. Dante and rather addictive. In one uses his trademark Rebellion point of view, DMC is an sword as a melee weapon and his Ebony and Ivory firearms, but slash and action enthusithere are also a few other weap- asts will surely enjoy. ons to be acquired throughout the game. Being a nephilim, Dante also possesses both angelic and demonic powers which are always available and can be activated by pressing and holding corresponding button for each. His angelic powers tend to be guicker but less damaging when it comes to attacks where his demonic powers are slower but stronger. These powers also allow Dante to perform several grabbing and pulling moves, and quickly reach certain areas while moving around, but they also come in handy when creating

scenery an angelic or demonic

games is inevitable, but it is how we remember him but system. story is interesting and is game play is refurbished excellent game that hack n'

# **Placement Details**

	01.	Anila C	Keynote, Bangalore	16.	Rajila Mohan	Caters innovative Solutions
	02.	Cyril varkey	Fidelity India (pvt) Ltd	17.	Ramila Mohan	Caters Innovative Solutions
	03.	Jenin Joseph	Fidelity India (pvt) Ltd	18.	Sithara. M.K.	DVS Technologies Pvt Ltd
	04.	Sherin Rappai	Fidelity India (pvt) Ltd	19.	Nithin H.K	KPMG
	05.	Dilip Jacob	Fidelity India (pvt) Ltd	20.	Allen Thomas	Vibrant Communications
	06.	Abin k Baby	Alti source	21.	PriyaTandon	Unisys
	07.	Ravi Kishore M	Alti source	22.	Shinto V Varghese	UST Global
	08.	Preethi Das	Alti source	23.	DeepaElizebeth Joseph	UST Global
	09.	AnuKurian	Alti Source	24.	Thapan Chand A	UST Global
	10.	Santosh K U	Alti Source	25.	Rani Maria Joseph	NIIT Technologies
	11.	Tijo Mathew	Vibrant Technologies	26.	MuhammedFazil C	NIIT Technologies
	12.	Nickey Joseph	Vibrant Communications	27.	Mohammed Shamir Haris	
	13.	Andikat J Dennis		28.	Jewel Roy	NIIT Technologies
	14.	Rahul Rajeev	M.H.AshlayaCo.WLL	29.	MahetaDhawal	Web Technologies.
	15.	Loy Coloco	Keynote Systems			
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#### TECHNOBYTES

## STUDENTS ACHIEVMENTS AND ACTIVITIES

# Achievements in Department level inter-collegiate fest



The students of MCA have always excelled in all the fests that they have attended. They also make it a point to make us proud by bagging the overall championship in the fests that they attend. Even this time they have made us proud by winning the Overall Championship in the inter collegiate fests organized various colleges. They won the overall championship in the fest conducted by Don Bosco College, Kerala in the month of November and Surana College, Bangalore in the month of December.

### Manoeuvre –2012 intra collegiate IT Fest



Manoeuvre 2012, the intra collegiate IT fest was conducted on 16th Nov 2012. The fest was organized by the final year students, and the 1st and 2nd year students participated in the various events of MANOEUVRE 2012. The staff coordinator was Mrs.S.Suja and the student coordinators selected were Ms. Kiran Singh & Mr. Diliph Jacob from the final year MCA. The fest enhanced the students to improve their technical & interpersonal skills. The Chief Guest of the day was Shri. Gopa Nair, Senior Consultant, Oracle, India.

#### TRIP





Fun Filled Moments Students of 3rd sem MCA enjoyed the two days of their tour to Coorg on the 10th and 11th of November 2012.

Students of 5th sem MCA enjoyed the tour to Kerala from 23rd November 2012 to 27th November 2012.

### Life Skill Training



To enhance the development of basic life skills, personal competence, and skills related to resistance to social influences that promote substance use, a Life Skill training programme conducted for the I year MCA students during 08.10.12 12.10.12. The program consists of three major components i.e, general self-management skills, social skills, and information and skills specifically related to drug use. Skills were taught using training techniques such as instruction, demonstration, feedback. reinforcement, practice.

## Department Activities





Department of MCA of Kristu Jayanti College conducted a seminar on Software Project Automated Tools for MCA students on the 8th 0f December 2012. Mr. Magesh Kuppan is a freelancer gave presentation about Software Project Automated Tools. He has a 15 years exeperience in S/W development and training including 12 years in application development experience in .net was good and appropriate person to explain Software Project Automated Tools for students. The topics that were covered are: things involved in S/W development, testing tools, testing framework, implementation, updation and DVCS, VCS, BDD.

Department of MCA of Kristu Jayanti College conducted an interaction section on current trends in DB & IT for MCA students on the 15th December 2012. Mr. L Venkatesan, lead DBA from united health group of Plymouth USA, gave presentation about current trends in DB & IT. He has a 17 years of experience in different industries on oracle and SQ server, OLTP and OLAP environment. He explained about operation and application of DBA, oracle, performance tuning, backup and installation and disaster requirement.

#### **PUZZLE AND CROSS WORD ANSWERS**





**TECHNOBYTES** 



Prepared by, Alvi & Dona I Sem MCA

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A		Р		<sup>7</sup> D	0	N	G	L	E
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Prepared by, Arshitha & Shruthi I Sem MCA

### **QUIZ ANSWERS**

- 1. Bhuvan
- 2. Twitter
- 3. Tessy Thomas
- 4. Atos Origin 5. AT & T
- 6. Zettabyte
- 7. Dropbox
- 8. Algebra
- 9. Tetris



OUIZ Prepared by, Fr. Nijo Antony

### THE WONDER THAT IS WINDOWS 8

the windows 7 operating system. In other words it's the latest entrant into the family of Microsoft Windows operating system for use on computers. Windows 8 has pumped in a lot of changes to the platform of the operating system by taking advantage of new and emerging technologies, improving user experiences on mobile devices, adding new security features, along with other changes and improvements performances.

The most notable change introduced in Windows 8 is the start window with a whole lot of vigorously updating blocks to represent applications, and the Windows store using this it won't ever be a worrying task to obtain and purchase applications for the system and also the capability to orchestrate the settings and programs between numerous devices.

Well to talk a little bit more about its features the first thing that caught my attention is the new "Hybrid Boot" mode which hibernates the Windows kernel on shutdown simply to speed up the succeeding boot. Windows 8 also adds up the much needed support for the USB 3.0 devices which obviously means faster data transfer and enhances power management with compatible devices.

Now moving on to the safety and security features Windows 8 has included two new substantiation methods customized towards touch screens i.e. PIN numbers and picture passwords, the inclusion of antivirus capabilities into Windows defender brings it equivalence to Microsoft Security Essentials software and also Smart Screen filtering and support for the Secure Boot adds up to the security features. And if Windows crashes it shows a diverse blue screen of death. It also provides integrated system recovery through the new refresh and reset functions. Now talking about its online service and functionality a user can log in to Windows using the "Windows Live ID" which is a Microsoft account using this users can enter services and coordinate applications and settings between devices. A few other features connected to this are sky drive cold storage service which allows apps to save file directly to sky drive.Windows 8 has something for gamers

For starters Windows 8 is the latest avatar of as well it comes with a whole lot of multimedia apps under the Xbox brand which includes Xbox music Xbox smartglass for use with Xbox 360 console and also Xbox video games can be incorporated into an Xbox live core app, which also allows users to check their game score and also view their profiles. Windows 8 also has something for people who just can't stay away from social networking by setting up a whole lot of apps with the capability to link services such as Flickr and Facebook.

To talk a little about the interface and desktop part Windows 8 introduces guite a lot of changes to the operating systems UI; by centering most of them to improve the experience on tablet computers and a lot other touch screen devices. The metro design has entirely changed the window by displaying a whole set of customizable array of blocks which link to multiple applications and programs some of which can display continually updated information through "live tiles". Windows 8 also supports a feature called ecure Boot which uses a public key infrastructure to check the reliability of the operating system which helps prevent unauthorized programs such as Bootkits from corrupting the device. Windows 8 is a whole lot different from Windows 7 not just because of all the freshly added features but also because of all the many more features that were removed.

To start with it's the start menu that is nonexistent in the new OS as mentioned earlier. A few other features removed are the support for playing DVD's from Windows Media Player the reason being the fact that the cost of licensing the necessary decoders and the pervasiveness of streaming services such as Netfix, which also means that Windows Media Center will no longer be the default on Windows 8. And file history, the new feature will replace backup and restore which was traditionally used by its predecessors, Windows 8 has also ditched the whole customize the font color as well as the color of maximize/minimize buttons, which in other words means it's almost impossible to read the text and see the buttons but don't be alarmed this is true only in case the user chooses a dark color for the border and the task bar. Hardware requirements for the Windows 8 are marginally higher than in Windows 7Windows 8 is a promising and refreshing new operating systems with its many new features its surely is a class apart from all its previous versions, what I have mentioned above on Windows 8 is just a tiny peek into the amazing new operating systems. So go ahead guys for all those out there who are looking forward to a new, refreshing and an amazing experience in computing go for the upgrade!!!!!

## **BEST PRACTICES**

## Technical communities

Inorder to enhance knowledge in various technical domains in IT, students seminars are held based on the six technical communities formed, viz

Networking, Cloud Computing, Mobile Computing, Security and Embedded Systems.

Few seminars held in this semester are: the seminar conducted by Dona Johnson and Bineesh M.S (I MCA) on the topic TCP/IP. The presentation consists of

physical layer, network layer, data link layer, session layer, presentation layer, transport layer and application layer. Along with the protocols.

The second seminar was conducted by Arshitha T.M and Alvi Anto (I MCA) on the topic Cloud Computing which included the architecture and the comparative study of cloud computing system.

The third seminar was conducted by Alex James and Baby K. Jojo on the topic Jail Breaking which included the introduction to jail breaking, benefits and disadvantages of jail breaking, how to jail break, different jail breaking tools.

The last session was taken by Vineeth V. George and Rahul Krishnan (I MCA) on the topic Firewall. The session included the introduction, types of firewall, working of firewall and the examples of firewall rules.

### **SEMINARS**



The faculty members in the department are involved in research activities. As a part of

faculty development programme, they take part in various seminars and workshops and also publish articles in various journals.

Prof. Ambika.P participated in an International Conference in R.V college of Engineering, Bangalore on 22nd and 23rd of December 2012 and presented a research article- "Colour Emotion Based Image Retrieval".

Prof. Jyothi Manoj participated in a 3 day workshop on Data Analysis (Jan 31st to Feb 2nd 2013) held in Kristu Jayanti College, Bangalore.

WORKSHOP

Dr. Sameer Kalekar,

Development Director,

MCA programme, Kristu

conducted a two-day

workshop on Network

Security on 22nd and

23rd of Nov, 2012 for the

MCA students which

helped the students to

know about the nuances

and intrigues of Security

system which is very

relevant in today's IT

College,

Jayanti

# Research Colloquium



The Computer Science department organizes 'Research Colloquium' every semester for the faculty members, to provide a platform for sharing the advancements in their area of research interest

The fifth session of Research colloquium by the dept. of computer science was conducted on 12- 01 – 13 at 11.00AM. The programme had a presentation by Mr. Bino Joseph (Dept. of Electronics) on the topic 'Understanding High Definition'.

The talk threw light upon the nuances of High- Definition technology like, the stipulation of a perfect signal source, screen resolution, pixels- progressive scan, audio enhancements etc. The session gave the audience an overview on what are the specifications that one has to be stress upon while going for electronics goods that has High Definition technology.

The programme ended with a question answer session. Rev. Fr. Augustine George, Head, Dept. of Computer Science appreciated the efforts by Mr. Bino, and handed over the certificate of appreciation.

### **EDITORIAL TEAM**



### **Chief Editors**



Rev. Fr. Sebastian T.A, CMI, Principal



Rev. Fr. Augustine George, CMI,Head of the Department



## **Staff Editors**



Prof. A. Muruganantham Dept. of MCA



Prof. Jyothi Manoj Dept. of MCA

# Student Editors



Ms. Alisha Antony I Sem MCA



Mr. Moziihrii Ado I Sem MCA

# Up Coming Events



SHELLS 2013 – National Level Inter -Collegiate IT Fest (March 2013)