



HIGHLIGHTS:

- ✓ What should I choose?
—Sony Smartwatch2 or Samsung Galaxy Gear — *pg. 28, 29*
- ✓ Freemium Business Model : The Darkside of Free Stuff — *pg. 12, 13*
- ✓ Business Opportunities Arising from Cloud Computing in IT Industry — *pg 17-21*
- ✓ Penyertaan aktif Pelajar dalam Kelas Menerusi Penggunaan TOKEN MAGIC — *pg 16*

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Dean's Foreword

BIT@FSKKP2013 is a news-medium for all readers especially UMP staff to get latest developments in FSKKP aside of recording the chronological events that happened in 2013.

Towards excellent faculty, such aims and goals must be achieved from time to time. Surely, the high quality of management, academia and researchers, the excellence of students academic, the involvement of staff and students in the outstanding technology and innovation is the main key success.

Finally, I hope this bulletin can provide a very fruitful information for all readers.

PROF. DR. JASNI MOHAMAD ZAIN
Dean



Editor's Foreword

Assalamualaikum and greetings to all.

Hi everyone,

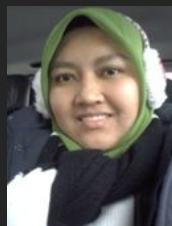
Please enjoy this '*santai-fashion*' of Buletin BIT@FSKKP 2013. I hope all the information and news that shared in this bulletin can provide the latest updates about FSKKP.

Any recommendation and suggestion are most welcomed.

Thanks.



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HIGHLIGHTS

2013

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**Research Award:
Silver Medal in Creation, Innovation, Technology & Research
Exposition (CITREX 2013), UMP
Project Title: Wireless and Configurationless iClassroom System
Researchers: Dr Mohamed Ariff Amedeen, Zafril Rizal M Azmi**

The Wireless and Configurationless iClassroom System is targeted for any level of classroom environment be it in a primary education environment up to tertiary education environment. This is because of its unique zero-configuration



Figure 1 depicts this scenario with three tablet computers connecting with the notebook computer wirelessly, while the notebook computer accesses the remote database in the external storage wirelessly as well. The three tablet computers used in Figure 1 serves only as an example of how the connection is made, not as a limitation to how many simultaneous connections can be made between the tablet computers and notebook computer.

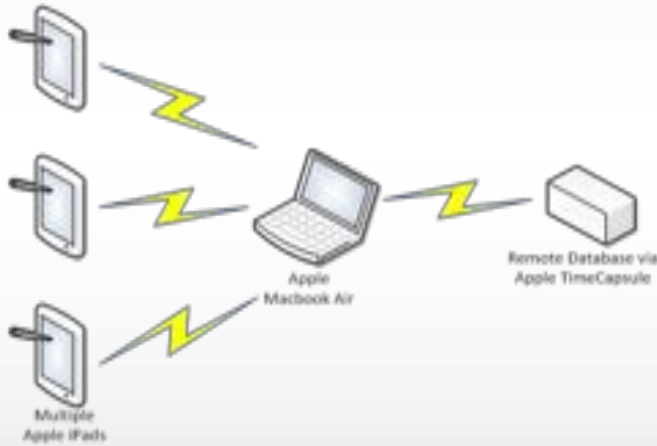


Figure 1

environment that allows users of limited technological backgrounds to operate with absolute ease.

For each classroom environment, it is assumed that there would be one instructor with numerous students. As such, the instructor would be in control of the central notebook computer (or in this case, the Apple Macbook Air) while each student will be in charge of a tablet computer (or in this case, an Apple iPad). Each classroom should also feature an external storage device capable of the Bonjour protocol for storing the remote database (in this case, the Apple Time Capsule).





wireless & configurationless iClassroom system

The iClassroom system is designed with simplicity in mind. Being WIRELESS and CONFIGURATIONLESS means it can be used by anyone with very minimal technical expertise and without the hassles of connecting any cables together.

Target User:
Primary School Teacher and
Primary School Students

Prototype Scope:
1 Teacher and 30 Students, for 1 subject

Hardware Scope:
1 Macbook Air (for the teacher), 30 iPads (for the students) and 1 TimeCapsule for Wireless Backup



The architecture of the iClassroom system uses Bonjour, an Apple proprietary zero-configuration communication protocol. This protocol allows all interactions between the multiple iPads, the Macbook Air, and the TimeCapsule to be performed without any configuration or wires at all (refer to the figure above). Therefore, this product is suitable for all ages (even primary school students) because it needs no technical knowledge at all. Just switch the devices on, and you are good to go!



The iClassroom system consist of 5 individual modules which are:

1. Textbook

This textbook module is accessible anywhere and at anytime featuring animations and interactive learning

2. Exercise

This module feature exercises and sample problems that students could attempt to solve

3. Assignment

Using this module, the teachers could assign homework or assignments for the students to take home

4. Examination

The examination module is unique where the students' iPad needs to be within proximity of the Macbook so that the teacher could monitor the students

5. Reminder

In this module, the teacher could set reminders for a group or individual students such as to revise certain parts of the subject based on their strengths and weaknesses



Dr Mohamed Ariff Ameen
Zafri Rizal M Azmi

Faculty of Computer Systems and
Software Engineering
Universiti Malaysia Pahang

**Research Awards:
Gold Medal & i-ENVEX Best Award in The 4th International
Engineering Invention & Innovation
Exhibition (i-ENVEX 2013), UniMAP.
Silver Medal & KUIA Special Award in Macau International
Innovation & Invention Expo,
Macau Fisherman's Wharf & Exhibition Centre
Project Title: Smart Attendance Management System (SAMS)
Researchers: Siti Hawa Apendi , Hazim Anas B. Mohamad,
Rozlina Mohamed, Aziman Abdullah**



Projek ini dimulakan oleh Bahagian Teknologi Maklumat (BTM) Setiausaha Kerajaan (SUK) Pahang dan Jabatan Agama Islam Pahang (JAIP). Ia adalah sistem maklumat bersepadu yang menggabungkan beberapa modul. Ia dibina khusus untuk memenuhi kehendak sekolah menengah agama (SMA) di bawah pengawasan JAIP. Ianya sebahagian dari agenda BTM yang ingin mengadakan pembangunan bersama dengan IPT sebagai sebahagian dari khidmat masyarakat. Saya terlibat dalam salah satu modul sistem iaitu "Attendance Management System".

Pembangunan sistem bermula pada September 2011. Sistem siap pada Julai 2012. Pihak BTM telah menghubungi pensyarah UMP, Pn. Rozlina Mohamed yang juga merupakan penyelia Projek Sarjana Muda (PSM) Siti Hawa, mempelawa untuk turut serta dalam pembangunan sistem ini secara kolaborasi. Tujuan sistem ini dibangunkan adalah untuk membantu pihak pengurusan sekolah mengurus kedatangan pelajar secara lebih efektif dan efisien melalui sistem berkomputer. Proses mengambil kehadiran pelajar sebelum ini dilaksanakan secara manual menggunakan Buku Jadual Kedatangan Pelajar akan ditukar kepada sistem berkomputer di mana guru kelas akan merekod kehadiran pelajar menggunakan aplikasi komputer yang dibangunkan. Laporan analisa kehadiran pelajar akan dapat

disiapkan dengan cepat dan tepat untuk proses pemantauan Jabatan Agama Islam Pahang (JAIP). Selain itu, terdapat mekanisma amaran awal di mana sistem mengenalpasti senarai pelajar yang tidak hadir secara automatik dan tindakan seperti menghantar SMS kepada ibubapa boleh dibuat melalui mekanisma ini. Bagi kes pelajar yang kerap tidak hadir ke sekolah tanpa sebab, surat amaran juga boleh dikeluarkan dengan hanya menyenaraikan nama pelajar melalui sistem.

mekanisma amaran awal di mana sistem mengenalpasti senarai pelajar yang tidak hadir secara automatik dan tindakan seperti menghantar SMS kepada ibubapa boleh dibuat melalui mekanisma ini.

Bagi kes pelajar yang kerap tidak hadir ke sekolah tanpa sebab, surat amaran juga boleh dikeluarkan dengan hanya menyenaraikan nama pelajar melalui sistem.



Research Awards:
Gold Medal in International Invention, Innovation & Technology Exhibition (ITEX) 2013, KLCC.
Silver Medal in Seoul Intervention International Fair 2013 (SIIF 2013), Korea.
Gold Medal in Creation, Innovation, Technology & Research Exposition (CITREX 2013), UMP
Project Title: FTP2R- A Fault Tolerant Unit Testing Tool For Java Program
Researchers: Prof. Dr. Kamal Zuhairi Bin Zamli, Mohd Hafiz Mohd Hassin, Rozlina Mohamed

ABSTRACT

With the advent of advancement in computer hardware technology, software applications grow tremendously in term of line of codes (LOCs). In the old days, there is hardly any commercial software that is more than 15K LOCs. Nowadays, most commercial software typically has more than a million LOCs. Such a significant increase in terms of LOC has a strong influence as far as testing and quality assurances are concerned.

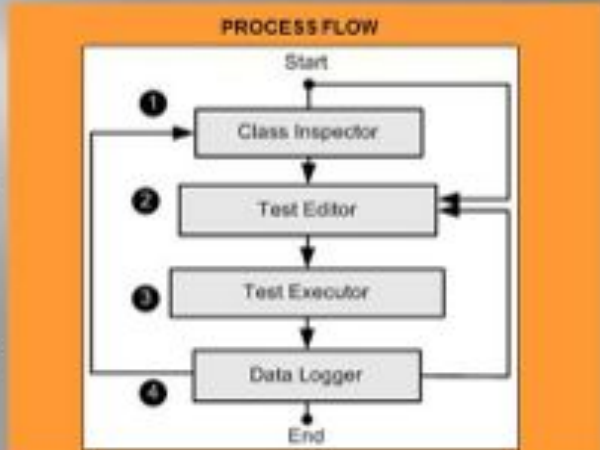
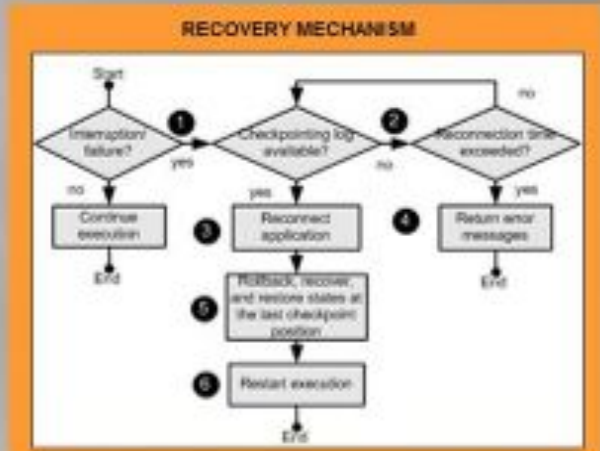
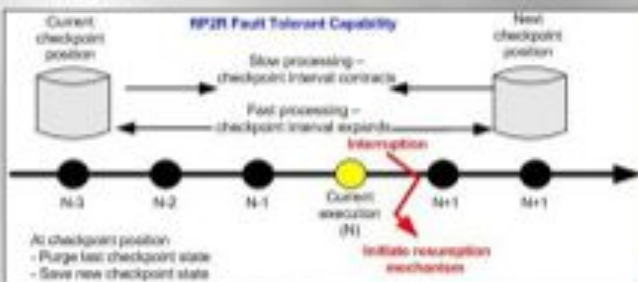
Software test engineers are often under pressure to deal with long, laborious, and repetitive testing chores involving the execution of large number of test cases. To address these issues, an automated tool, called Fault Tolerant P2R (FP2R), has been created to support automatic test execution for Java program. Like most execution tools, FP2R relies on execution scripts to automate the execution of each of the test case till the end. Unlike other execution tools, FP2R provides fault tolerant capability against both involuntary interruption (i.e. due to power failure or hardware malfunctions) and voluntary suspension of execution (i.e. to make way for other program). Here, FP2R has the capability to seamlessly recover from interruption or suspension to avoid restarting of the execution scripts from the beginning. In this manner, FP2R avoids wasted efforts and promotes efficient allocation of computing resources.

NOVELTY & INVENTIVENESS

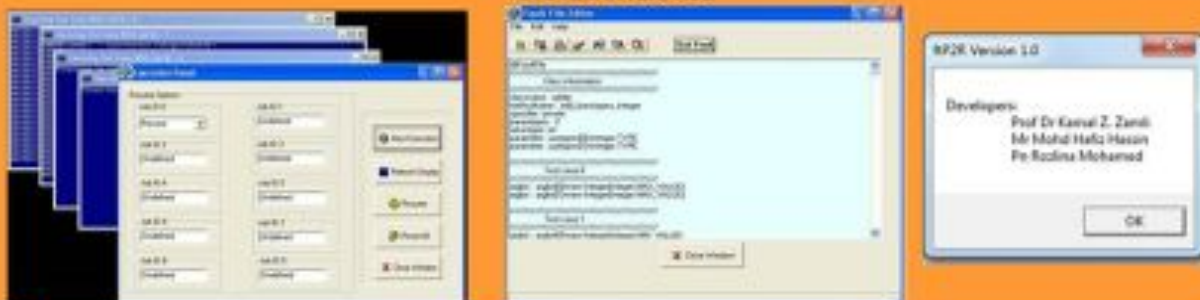
- Permit Parallel Execution
- Seamless Recovery from Involuntary Interruption & Voluntary Suspension
- Implement Opportunistic Processing through Dynamic (and Static) Checkpointing Mechanism
- Address Efficient Allocation of Computing Resources

AUTOMATIC RECOVERY MECHANISM

Internally, FP2R implements an automatic recovery mechanism based on checkpointing technique. Referring to figure below, the automatic recovery mechanism is sufficiently flexible to support static checkpointing interval (i.e. with fixed threshold) as well as dynamic checkpointing interval (i.e. with varying threshold).



SYSTEM INTERFACE



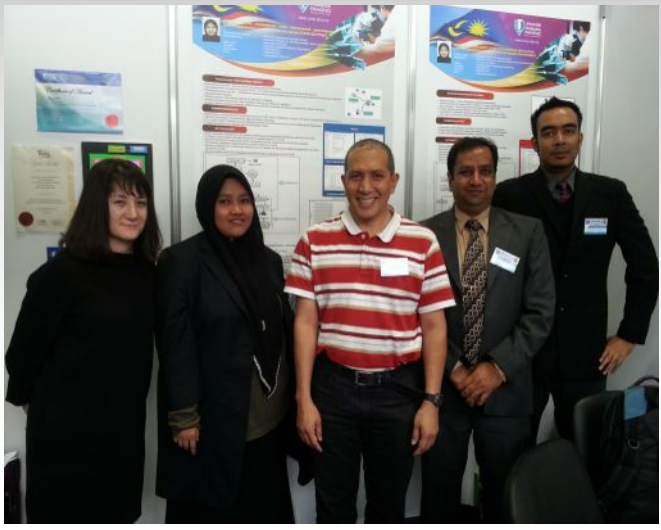
Awards

Best Paper Award in the International Conference on Computational Science and Information Management (ICCCSIM 2012), Medan, Indonesia, "P2R - A Pairwise Testing Strategy Supporting Execution Resumption" (out of 53 papers)

Grants

Development of a Pairwise Interaction Testing Strategy with Checkpointing Recovery Support, UMP Short Term Grant, Vote Project: RDU 1203119

Research Awards:
Gold Medal, Diploma De Merit, The Best Excellence, Grand Prix Archimedes Moskova; in 16th International Salon Of Inventions & Innovation Technologies (ARCHIMEDES) 2013, Moscow, Russia. Gold Medal in Malaysian Technology Expo' 2013 (MTE), PWTC. Project Title: Effective Persistence Layer Synchronous Replication Heterogonous Database
Researchers: Assoc Prof Dr.Noraziah Ahmad, Assoc Prof Dr Ahmed Abdella, Abul Hashem Beg, Ainul Azila Che Fauzi, Mohd Amer

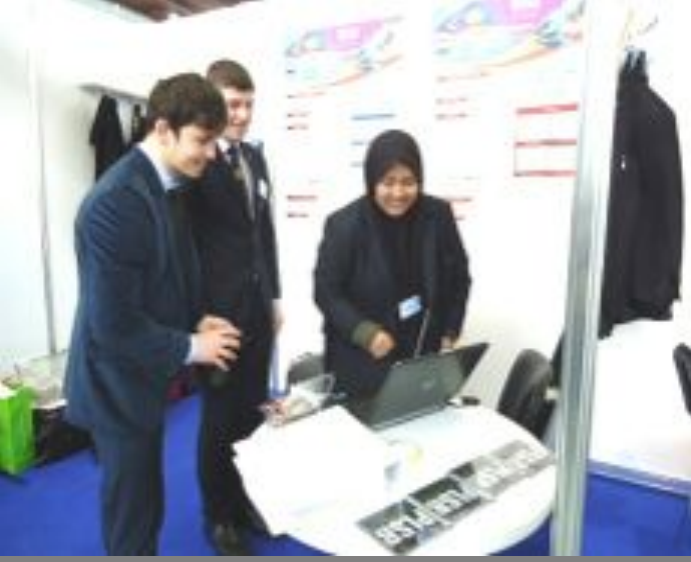


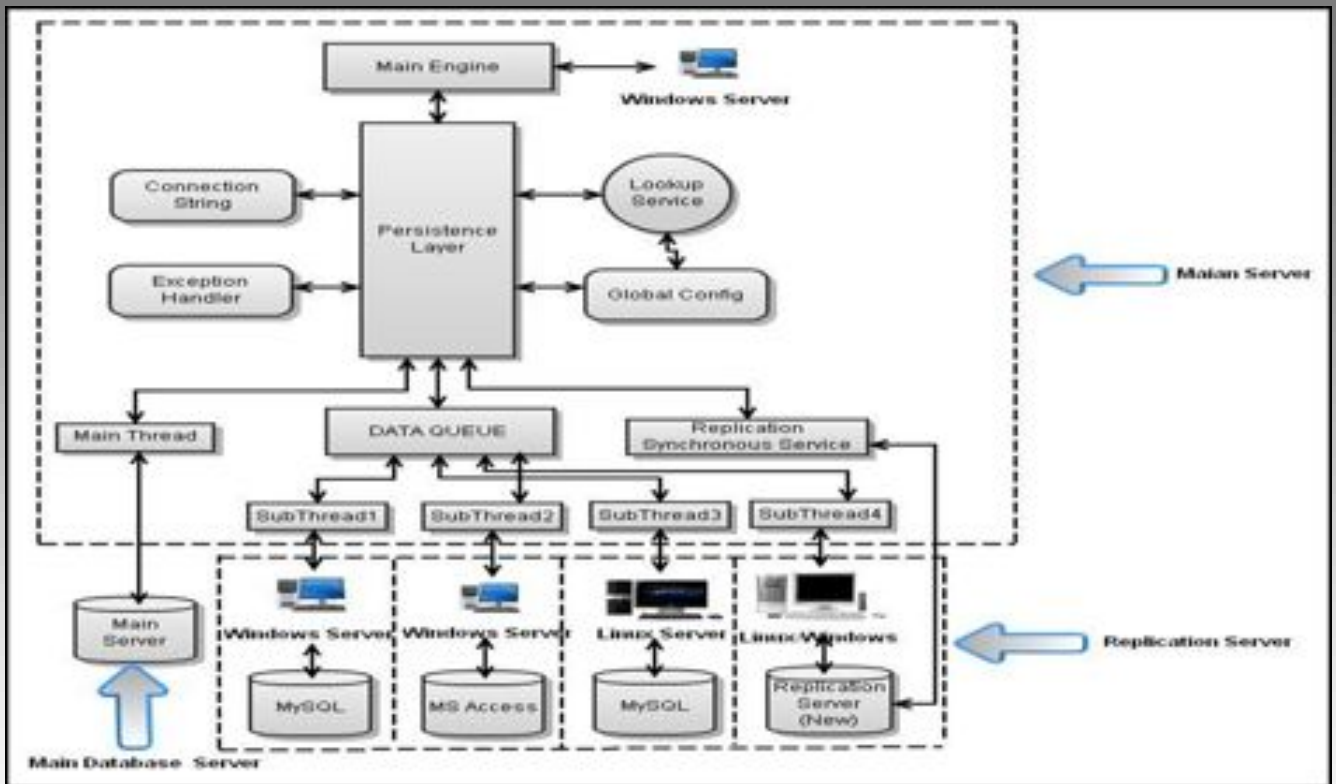
BACKGROUND

- Database System is a collection of information. It moves from centralization towards decentralization.
- Distributed Database System (DDS) is a collection of multiple independent databases.
- Data replication in DDS technology involves copying data between data stores and guarantees data across multiple sites in a distributed environment
- Usually replication process depends on the main server. Introducing the up-gradation of the replication process usually pause the system for a routine of time. Fail or crashes of the main server, usually make the entire system stop working (for database driven system)

PERSISTENCE LAYER SYNCHRONOUS REPLICATION (PLSR)

- PLSR Tool & software for replication process in distributed database
- Backup data for heterogeneous system, replication cost effective and faster
- Automatic support handling failure/crash
- Deploys multithreading technique





BENEFITS

- PLSR Tools for replication support heterogeneous DDS (Operating System independent).
- If main server fail / crash, PLSR automatic swap high priority with lower priority thread.
- Reliable transaction information for the usage of application.



Penyelidik UMP diiktiraf

UM (Maj) 11/11/2013
M. 20

UNIVERSITI Malaysia Pahang (UMP) terus melakar kejayaannya tersendiri di persada antarabangsa apabila meraih dua pingat emas pada pertandingan projek penyelidikan dan pameran 16th International Salon Of Invention and Innovation Technologies (ARCHIMEDES) yang diadakan di Sokolniki Exhibition Center, Moscow baru-baru ini.

Kemungkinan itu diperoleh melalui hasil penyelidikan Fakulti Kejuruteraan Kimia dan Sumber Asli (FKKSA), Profesor Madya Dr. Arun Gupta dengan tajuk penelitiannya 'Development of Bio Adhesive Using Lignin and Soya Protein for Wood Composite'.

Penyelidikan yang melibatkan penggunaan bahan bio adhesive lignin dan protein soya bagi menghasilkan papan lapis yang lebih bermutu tinggi turut melibatkan penyelidik Prof. Datuk Dr. Rosli Mohd Yunus, G.K Chua dan Mohammed Nasir.

Turut meraih emas adalah penyelidik Fakulti Sistem Komputer dan Kejuruteraan Perisian (FSKKP), Prof. Madya Dr. Norziah Ahmad dengan kajian bertajuk 'Effective Persistence Layer Synchronous Replication For Heterogeneous

Distributed Database.

Menurut Dr. Norziah, penyelidikan tersebut dihasilkan berkaitan sistem pangkalan data dan ia direka untuk organisasi yang memerlukan data yang banyak atau beroperasi di cawangan-cawangan lain.

Katanya, sistem yang dihasilkan itu juga mampu mengurus data secara automatik sekiranya berlaku kegagalan dalam sistem.

Penyelidikan itu turut melibatkan Abul Hasbem Beg, Prof. Madya Dr. Ahmed N Abdalla, Ainsul Arifa Che Fauzi dan Mohd. Amer Mohd. Azhar.

Lebih menarik, kedua-dua produk penyelidikan tersebut memenangi anugerah khas dan diiktiraf pihak Central De Studi Ci Cercetari Psihtronice Si Ufologice, Romania atas kecemerlangan dan penghasilan projek berpotensi.

Najib Carmelot UMP, Prof. Datuk Dr.

Daling Nasir Ibrahim yang turut hadir pada pameran tersebut turut melahirkan rasa bangga beliau terhadap kejayaan yang diraih barisan penyelidik UMP pada tahun ini.

Malah kata beliau, itu membuktikan



DR. ARUN Gupta dan Dr. Norziah Ahmad (dua dari kiri) menerima pingat emas dan anugerah khas yang mengiktiraf hasil penyelidikan mereka pada pameran di Russia baru-baru ini.

hasil penyelidikan UMP turut diiktiraf dan mampu bersaing di peringkat antarabangsa.

"Panel juri turut memberi maklum balas positif terhadap perkembangan inovasi dan projek penyelidikan dari UMP

yang mendapat perhatian masyarakat antarabangsa," katanya.

Beliau turut mengharapkan lebih ramai penyelidik UMP tampil mencipta nama di peringkat antarabangsa sekali gus mengharumkan nama universiti itu..

UMP rangkul 13 pingat di Ekspo Teknologi Malaysia

UM (Maj) 11/11/2013 M. 20

KUANTAN 19 Mac - Universiti Malaysia Pahang (UMP) mencipta sejarah tersendiri apabila merangkul 13 pingat dan dua anugerah dalam pelbagai kategori pada pameran serta pertandingan Ekspo Teknologi Malaysia (ETM) di Kuala Lumpur bulan lalu.

Ekspo yang bertemakan teknologi dan kejuruteraan yang berlangsung di Pusat Ingangon Dunia Putra (PWTC) itu menyaksikan lebih 400 projek penyelidikan daripada institusi pengajian tinggi (IPT) dalam dan luar negara.

Pegawai Perhubungan Awam dan Media UMP, Mimi Nabita Abdul Wahid berkata, daripada 11 produk penyelidikan yang dipertandingkan, universiti itu berjaya meraih masing-masing empat pingat emas dan perak, lima gangsa serta dua anugerah.

"Penyelidik dari Fakulti Sains dan Teknologi Industri (FSTI), Prof. Dr. Joe Rajan berjaya memenangi pingat emas dalam penyelidikan yang berkaitan dengan superkapasitor berkesan tinggi menggunakan buih kelapa sawi dalam penghasilan kuasa serta tenaga.

"Selain itu, beliau juga memenangi anugerah khas mengenai penyelidikan yang sama pada pertandingan

tersebut," katanya dalam kenyataan di sini baru-baru ini.

Mimi Nabita berkata, turut memenangi pingat emas ialah Dekan Fakulti Sistem Komputer Kejuruteraan Perisian (FSKKP), Prof. Dr. Izzat Mohamed Zain dan penyelidik dari fakulti tersebut, Prof. Madya Dr. Norziah Ahmad.

Katanya, seorang penyelidik dari Fakulti Kejuruteraan Kimia dan Sumber Asli (FKKSA) Dr. Arun Gupta turut memenangi pingat emas menerusi penyelidikan bertajuk pembuatan dan manipulasi kaya menggunakan soya.

Dalam pada itu, beliau memberitahu, universiti tersebut turut meraih empat pingat perak yang dimenangi oleh Joe; dua penyelidik Fakulti Kejuruteraan Awam dan Sumber Alam (FKASA), Nabih Mukhtar dan Dr. K. Isid Nasrin dan penyelidik dari Fakulti Teknologi (FT), Dr. Hadi Masop menerusi penyelidikan masing-masing.

"Lebih membanggakan apabila pada pameran UMP berjaya menarik juri dengan merangkul trofai pertama bagi Kategori Booth Pameran Terbaik dan turut memenangi Anugerah Cerai Mesta Pengunjung dalam MTT tahun ini," katanya.



SEBAGIAN daripada penyaji dan penyelidik UMP bersama uji yang dimenangi pada Ekspo Teknologi Malaysia yang berlangsung di Kuala Lumpur baru-baru ini.

UMP raih 4 pingat emas

Cipta penyelidik diiktiraf di INPEX 2013

Oleh Nih Sukry Kamil
niksukry@mediaprima.com.my

■ Kuantan

Empuai penyelidik Universiti Malaysia Pahang (UMP) berjaya mencipta nama di persekitaran antarabangsa apabila produk dipertandingkan pada Ekspo Raka Cipta dan Produk Baru (INPEX) 2013, meraih pingat emas serta diiktiraf menerusi anugerah khas dalam kategori masing-masing.

Ekspo tahunan terbesar yang berlangsung di Pusat Konvensyen David Lawrence, Pittsburgh, Amerika Syarikat (AS) pada 18 hingga 21 Jun lalu mengumpulkan pelbagai produk hasil penyelidikan dan pembangunan (R&D) dari institusi pengajian tinggi (IPT) seluruh dunia.

Naib Canselor UMP, Prof Datuk Dr Daud Naur Ibrahim, berkata Dr Hadi Manap daripada Fakulti Teknologi meraih dua pingat emas menerusi projek penyelidikan bagi mengekalkan gas ammonia dengan pantas bagi dua kategori iaitu elektrik dan elektronik serta pengiraan keselamatan Indonesia.

Berlaku berkata, penyelidikan itu berupaya mengekalkan kehadiran gas ammonia jika ada berlaku kebakaran dalam tempoh tiga saat berhubung menggunakan bahan kimia, yang merupakan masa hinggap yang sangat singkat.



Dr Daud Naur Ibrahim (dua dari kiri), bersama empat penyelidik UMP, Prof Dr Daud Naur Ibrahim, Prof Dr Azmi Mohamad Zam dan Mohd Najib Razali (dua dari kanan) dan Dr Hadi Manap (samping) yang menyempulakan pingat emas dan anugerah Best & The Innovations and New Product Exhibition di Pittsburgh, Amerika.

Tingkat aspek keselamatan

"Mati dan patah tulang merupakan kajian penyelidikan berkenaan sejak 2007 dan ia bukan kebetulan, berikutan berkaitan aspek keselamatan serta pemantauan risiko kepada pekerja, yang amatlah terdedah kepada gas beracun dalam industri berkaitan," katanya ketika ditemui pada majlis Persekitaran Keperluan Perkhidmatan Antarabangsa (EMIC), di sini, semalam.

Enang Naur berkata, pingat emas ketiga pula dimenangi bagi kategori alam sekitar mengenai produk rasetan bahan buangan industri menggunakan teknologi hijau hasil pemrosesan empat penyelidik daripada Fakulti Kejuruteraan Kimia dan Sumber Asli dikenali Mohd Najib Razali.

Katanya, kajian dua tahun di berkaitan pengiraan bahan

kimia untuk memulau sisa buangan industri bagi menghasilkan produk bilikan seperti safon dan bekalan air bersih.

Berlaku berkata, pingat emas keempat dipertah melalui produk inovasi kaedah pemrosesan tenaga daripada bahan buangan safon yang dihasilkan Prof Dr Jose Rajan dan Fakulti Sains dan Teknologi Industri (FSTI).

"Produk yang berupaya seperti alat pengiraan melalui alat sudah dipatenkan dan beberapa maklumat telekomunikasi sedang memandatkan perkhidmatan dengan satu server bagi mengkomunikasikan produk berkenaan," katanya.

Pemilihan hasil rasetan Prof Dr Dewi Muhamad Zam dari Fakulti Sistem Komputer dan Kejuruteraan Perisian, yang berupaya menggunakan jenis kway-kway dengan garisan memperoleh Anu-

gerah Khas Bagi Rantau Pasifik pada pameran berkenaan.

Hasil produk berkualiti

Sementara itu, Daud Naur berkata, pencapaian itu bukan sekadar mengaharumkan nama negara tetapi juga meletakkan nama universiti tempatan sebaris dengan IPT terkenal di dunia.

"Berjuang dengan kita-kita ini produk lain bukan sesuatu yang mudah. Apabila produk dihasilkan penyelidik kita berjaya memuat huti juri, itulah pasti ia membuktikan ia berkualiti dan mendapat kriteria ditetapkan."

"Kejayaan ini akan memberi semangat semangat kepada penyelidik lain di UMP untuk terus meningkatkan R&D yang berkualiti dan boleh diperolehi ke peringkat antarabangsa," katanya.

UMP raih 18 pingat di ITEX' 13

Kuala Lumpur: Universiti Malaysia Pahang (UMP) berjaya merangkul 18 pingat dan satu anugerah khas dalam Pameran Raka Cipta, Inovasi dan Teknologi Antarabangsa 2013 (ITEX'13) di Pusat Konvensyen Kuala Lumpur, baru-baru ini.

Daripada jumlah itu, UMP berjaya meraih 12 pingat emas dan enam perak. Lebih membanggakan penyelidik Prof Madya Dr Abdurrahman Hanid Naur daripada Fakulti Kejuruteraan Kimia & Sumber Asli (FKKSA) bertajuk 'Air sebagai tenaga alternatif dan pengawal pencemaran' berjaya memikat hati juri apabila meraih pingat emas dan Anugerah Khas Henry Gob (Best Green Technology Invention).

Naib Canselor UMP, Prof Datuk Dr Daud Naur Ibrahim, berkata pencapaian 100 peratus itu membuktikan UMP mampu menghasilkan ciptaan yang bernilai untuk dimanfaatkan.

"Kejayaan ini menjadi petanda positif kepada universiti terhadap hasil penyelidikan UMP



Peserta UMP bersama dengan pingat yang dimenangi dalam ITEX'13, hari-hari ini.

yang lebih berinovasi dan kreatif serta dapat dimanfaatkan kepada masyarakat dan pembangunan negara," katanya.

Idea dihasilkan

Pingat emas juga dimenangi penyelidik dari FKKSA, Dr Ahmad Zaid Sulaiman dengan penyelidikannya yang mengotomatiskan

kaedah meningkatkan hasil kadar pengekitkan herba daripada Tingkat Ali menggunakan teknologi gabungan enzim berbentuk teknologi 'ultrasound' untuk kegunaan bidang kosmetik.

Penyelidik, Rosyati Hamid dari Fakulti Kejuruteraan Elektrik & Elektronik (FKEE) juga

memenangi pingat emas dengan penyelidikannya berkaitan sistem mengesan dan membuat kisan virus serta sel yang terdapat dalam kahak dan nanah bagi mendapatkan keputusan yang lebih konsisten.

Penyelidik Dr Tan Ling Ling @ Chong Ling Ling dari Fakulti Sains & Teknologi Industri (FSTI)

mengenal alat pengesan 'nitrite' yang berlandas pada satang burung turut memenangi pingat emas.

Pingat emas turut dimenangi Prof Madya Dr Ghazi Faisal Naguib (FKKSA), Prof Madya Dr Maksudur Rahman Khan (FKKSA), Mohd Najib Razali (FKKSA), Ahmad Besli Abdul Manaf (FKP), Prof Dr Kamal Zuhairi Zamil (FSKPP), Dr Chong Kwik Feng (FSTI) dan Dr Gurusurthy Heide (FSTI).

Pingat perak

Sementara itu, pingat perak diraih Prof Madya Dr Md Moksubur Rahman Khan (FKKSA), Dr Norrosla Sulaiman (FSKPP), Prof Dr Jose Rajan (FSTI) dan Prof Madya Dr Md Lutfur Rahman (FSTI).

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UMP turut menang pingat emas bagi Kategori Reka Binauk Booth Pameran Terbaik.

Freemium Business Model: The **Darkside** of Free Stuff

By: **Muhamad Idaham Umar**

in-app purchasing was introduced to the market during the early 2010. The definition of the term in-application (or in-app) is activities or transactions that are being done within the application. The definition of the word purchase is to acquire (something) by paying for it. The term of "in-application purchase" are digital goods which, when bought from within an app, often either unlock new features, enable the user to skip mundane tasks or provide additional content. In-app purchase is closely related with the term Freemium. The origin of the term Freemium is a combination of the words "free" and "premium" used to describe a business model that offers both free and premium services.

It is a norm in the world of consumerism; everything must be governed and controlled through legal channel to ensure that the new ideas are not being misused by people who want to take advantage of the situation. Each major consumer application retailer has established policies regarding the process of including in-app purchasing function for all applications that are published through their channel. But are these policies enough to avoid consumer dissatisfaction and irresponsible

spending in using this service? In-app purchasing is no longer centralized, contrary to the conventional app purchasing method (Premium application) where payment occurs before downloading the application. Can the established policy protect consumer from being abused by in-app purchase? What if the in-app purchases are rip-offs? There are too many grey areas in the existing policies.

In the case of Amelia DeClark, a three-year-old child spends 100 US dollars when using an app named "My Horse". What happened was that the three-year-old had racked up more than \$100 after her little fingers frantically swiped across the brightly colored buttons on the free app, confirming real-time payments from her mother's iTunes account

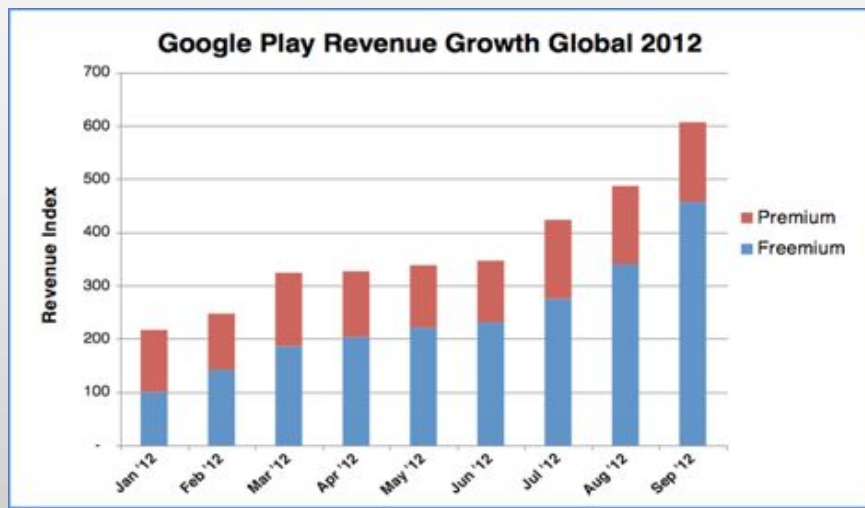
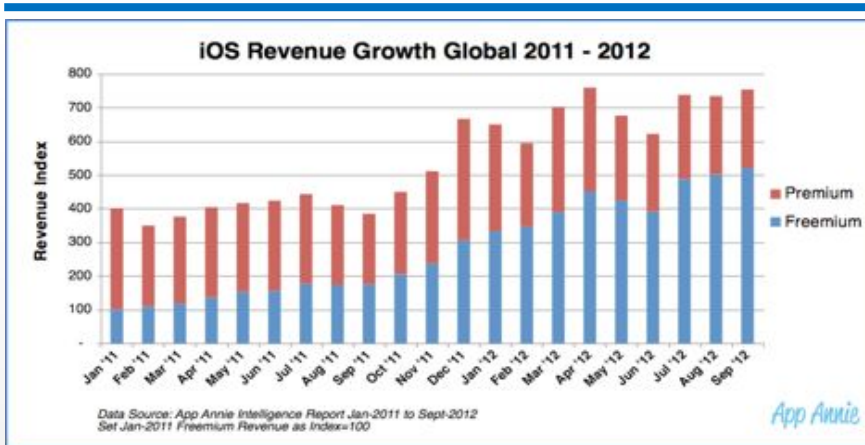
Even though the problem was solved by a refund to Amelia's mother, it was only as a "goodwill" gesture. This is not considered as the proper way of solving this issue. In another part of the world, a five-year-old asked his parents for the password to the family iPad to download a free game, only to accidentally rack up \$2535 in in-app purchases on his mother's credit card. The child download a free game named "Zombie vs Ninja" from the App Store. Yes, the app

was free, but the weapons and skills point inside the game are not. Just by knowing his parents password, the child was able to spend a huge sum of money in just a matter of minutes.

Before in-app purchase was introduced, purchasing in a mobile device is usually done before an application is downloaded or installed on a mobile device. Before a consumer can use an application, they must purchase the app through the means provided by each specific platform (i.e. Apple Store, Windows Phone Store, Google Play).

In-app purchase innovates the process of how consumer spends through mobile devices and how enterprise make profit. Consumers are being drawn to the intuitive services or goods provided when they first install an app for free on their device. After certain amount of period or usage, certain functionalities inside the app will require the user to subscribe or purchase to continue using the app to its full potential. That was the main idea of in-app purchasing - to give the consumers a taste of the full potential of an application.





ONLINE LEARNING

Online learning is increasingly popular because of its flexibility and convenience. The widely used tools are WebCT, Blackboard, and Moodle. Each tool has a different business model to show strengths in different areas. Some issues have to be addressed by educators in using the tools such as how to enhance the learners' motivation and how to avoid the impersonal, irrelevant and boring course designs.

Another important issue is that Online learning lacks the advantages of face-to face communication. Video conferencing can be adopted in Online learning but it cannot be substituted for traditional training. Integrating together the advantages of e-learning and traditional training seems to be a blended learning solution.

According to the graph, most developed applications are moving from developing premium application to freemium application at alarming rate.

In order for publishers to control the quality of the applications published through their channel; new policies and procedures are being deployed as a guideline for developers who publish their freemium applications. Each policy and procedure from each publisher differs in term of content, parties involved and most importantly, communication channel of the consumer.

Some publishers give the absolute control of in-app purchasing function to the developer, and some takes full responsibility on this function by introducing strict quality control procedure before the app can be published. One of the most important similarities between the current publishers is that from each transaction that is

executed by the consumer, there must be certain percentage of the money that goes to the publisher's pocket.

To summarize, publishers of applications should be more strict in defining their rules and regulations when involving this matter and stern action should be taken towards people who take advantage of the existing loop holes. But it is not just publisher and developer who are to blame. We, as the consumers must also educate ourselves in order to protect us from any harm. The power and knowledge of consumerism must be allowed to flourish in this day and age.



By: Aziman Abdullah

My Strategy in PhD Application

1. INTRODUCTION

I believe all lecturers do have a dream or desire to pursue their study to PhD level. Some of us may still considering again and again either to do it or not. Some may rethinking either it is worth or not. But again, the 'wanted PhD' feeling is there in their mind and heart.

I like to share my experience in my PhD application. My journey for PhD still far ahead but I like share what I had gone through with a hope, it will help and give some insight to others. It may sounds and seems familiar, but this is what I did. Construct your own life questions and find the answer with four 'W's and one 'H'.



2. 5W1H

There are more than one sequence how you can construct your riddle of life for PhD study. You may start with finding the reason WHY you need PhD at first or look for WHO you like to be supervised with.

Why ?

In our faculty, the answer WHY for PhD study is obvious either we like it or not. Since we are the one who will pursue and go through all the hardship in study, deep thinking and doing some 'homework' to justify the worth of doing PhD are unexceptional. Your reason may be about career development, promotion, self satisfaction or open up to a new opportunity and life experience. Regardless what your reason is, you have to reevaluate either it is worth with the return or not. For my case, I have delayed my own plan for PhD due to several commitments in my professional obligation and family readiness. I have no time to delay more and I have planned for more than a year for my PhD study.

I heard some PhD holder said, just do it. It sounds easy and simple, but I always keep remind myself that they already passed through. Having a strong and great reason to do PhD might keep us motivated along the journey of doing PhD. Why I want to do a PhD? Because I need a PhD. It is a tool for my future success.

Who ?

Some believe PhD is a personal work but I do believe it is a collaborative commitments from the student, supervisor, committees (examiner and senate) and family. I always like to bind myself with the best practice in Islam, to study with the 'Guru'. Finding a good supervisor is not an easy thing to do but there is a strategy how to find. My supervisor for PhD study is Professor Hyunook Kim, an expert in fusion technology in Water Quality Monitoring System in South Korea. He has involved with many international projects regarding water issues. I met him through collaboration project between Center of Earth Resources Research & Management (CERRM) and University of Seoul (UoS) in 2011. From the first meeting, I try to find out how to do PhD with him because I believe it is worth for me to fight for. I keep motivate myself to seek any possibility and opportunity to do PhD with him even he is not in computer science department.

What?

There are many things can be done for research. Either it is PhD or not, I believe we have to start somewhere. Like myself, I ask my potential supervisor since he is the one who will work together with me to achieve the PhD or not. There are many perceptions or the angle how we see things including PhD. Because we are just a human being, uniquely different. PhD or not, I believe it is depended on those who have direct influence in our study. In my case, I'm inspired by his vision, passion and commitment in his area. Therefore, I have decided to learn and be his supervisee which been written by Allah how

people may say it is really co-insident that his research work closely relates with my area of interest, Data Visualization. Knowing this opportunity, I have taught 3 semesters in Data Visualization as my preparation for PhD as well as my teaching assignment in the faculty.

How?

I like to seek advice from those who just freshly come back from their PhD study. Some of them said to me to investigate the area of study either it can be further studied or not. I take that advice by navigating and browsing the area of my interest in online journals. If I can find lot of work been done, then it is possible to do PhD with it because I do have references. As a faculty member, I have to plan that my study is inline with the needs of the faculty strategic operation.

Another significant factor in my application is the collaboration work through consultation project at Center of Earth Resources Research and Management (CERRM) together with University of Seoul like I have mentioned before. What I did is by asking Professor Hyunook Kim about PhD opportunity. Once he said it is possible, then I got confirmation and proceed for the next action.

In this part of how, I think the best way I can say from my experience is we need to ask people. Ask the faculty or department, ask other PhD holders, ask the prospect supervisor and do not forget to ask our family as



When?

Putting visually and clearly the timeline for meeting all required documents such as IELTS, university offer letter, research methodology courses etc may help us to be reminded and always on the right timing. There is a quote saying that luck is when preparation meets opportunity. I can't plan the opportunity but I can plan my preparation. Therefore I plan my preparation for taking IELTS, getting around with my potential supervisor when he comes to Malaysia for his project, learning Data Visualization in my class with my students and many more.

Where ?

Knowing that I have to travel abroad for PhD study, I need to carefully plan and consider the side effect on me and my family. Either we are having difficulty to move, adapt and survive, I need to find out more and made some kind of risk calculation. Where will you

pursue your study is, I think you will know yourself better either it is worth or not. Ask people who have experience, listen to them and evaluate with your own reasoning because you are the one who will go through it. Either you choose to study abroad or local even internally at UMP, surely it will affect our routine. So we cannot escape from trying to simulate the future that we might face when doing PhD. In my case, I have to expect the challenges in term of language, culture, cost of living, education for my children, health services, practicing Islam and many more. Regardless where we will going for our PhD study, doing some homework or 'research' will help us to make decision better either to go for it or not.

3. CONCLUSION

There are many way and strategy how to start looking for PhD opportunity. Be like a true learner by asking people who have



knowledge and read related books about it shall help us to 'visualize' the future that we may face in doing PhD. I hope that what I have shared will not be seen as the best practice but rather than an option or alternative for those who still looking for a strategy in PhD application. In this article, I like to extend my gratitude to FSKKP management team and UMP Human Resource (study leave unit) who have facilitated my application. I like to thank to Dr Fadli for his sincerity to share his experience regarding ask people to pray or du'a for our success. I like to request your kindness to du'a for me that I will be graduated with PhD in the given time frame.



Penyertaan Aktif Pelajar dalam Kelas Menerusi Penggunaan TOKEN MAGIC

'Token MAGIC' adalah salah satu kaedah yang dipraktikkan oleh pensyarah Fakulti Sains Komputer di salah sebuah universiti di Jepun untuk menggalakkan penyertaan pelajar di dalam kelas.

Bahan-bahan yang digunakan:

- Menggunakan kertas khas yang dipanggil 'Token MAGIC'. Ciri utama yang perlu ada pada kertas tersebut ialah tandatangan dan cop rasmi pensyarah, selain ada ruangan untuk pelajar menulis no matriks, kod subjek dan seksyen – untuk tujuan perekodan
- Warna berlainan digunakan bagi setiap subjek yang diajar oleh pensyarah yang sama bagi mengelakkan kekeliruan semasa pengemaskinian markah.
- Setiap keping 'Token MAGIC' mempunyai nilai markah yang telah ditetapkan bagi mewakili markah penyertaan pelajar di dalam kelas.

Cara-cara penggunaan:

- Pelajar dimaklumkan terlebih dahulu sebelum penggunaan kaedah ini .
- 'Token MAGIC' ini akan diberikan terus oleh pensyarah kepada pelajar semasa kelas berlangsung. Contohnya sekeping 'Token MAGIC' akan diberikan kepada pelajar bertanya soalan atau kepada pelajar yang berjaya menjawab soalan.
- Pelajar yang telah mendapat 'Token MAGIC' tersebut, boleh membuat pilihan sama ada mahu menuntut markah yang diberikan atau tidak. Sekiranya pelajar ingin menuntut markah penyertaan dalam kelas, pelajar
- Perlula mengisi maklumat yang diperlukan seperti yang tertera pada kertas 'Token MAGIC'.
- Pada waktu akhir kelas, pelajar berkenaan perlu menyerahkan semula 'Token MAGIC' yang telah diisi dengan maklumat tersebut kepada pensyarah berkenaan untuk tujuan pengemaskinian rekod.

Oleh : Fauziah Zainuddin

Kebaikan:

- Meningkatkan keinginan pelajar untuk berinteraksi dan pro-aktif semasa kelas berlangsung.
- Proses penilaian dalam kelas menjadi lebih kuantitatif.
- Pelajar lebih bermotivasi untuk memberi perhatian kepada syarahan yang diberikan.

Keburukan:

- Pertambahan beban masa pensyarah untuk menyediakan material 'Token MAGIC'.
- Perlu menyediakan markah khas dan sentiasa mengemaskini rekod untuk penyertaan pelajar.

Business Opportunities Arising from Cloud Computing in Information Technology Industry

Author: Dr. Lee Ho Cheong (Jackie) and Sifi Normaziah Ihsan

1 Introduction

Nowadays, cloud computing becomes a hot topic not only for information technology (IT) industry but for everyone. Cloud computing does not have a clear definition in the literature yet. Carroll et al. (2012) described cloud computing as a collcomputing concepts that involve a large number of computers that are connected through a real-time communication network (typically the Internet). The development and the application of cloud computing have a great impact on the IT industry (Rahul et al., 2012). This paper highlights some critical issues on the ways to run business in cloud computing. In particular, it looks specifically on the recent development of cloud computing around the world. The potential business opportunities arising from cloud computing are also explored.

The MDEC has appointed 6 Technology Partners to offer customized package of cloud hosting subscription, training and go to market under the ISV Cloud Computing Programme

2 Running business in cloud computing

How does cloud computing affect

the ways to run business? From the last decade, running business has shifted from traditional ways to the internet in using software models. From the business point of view, it is very complicated and expensive in running traditional business applications. Huge amounts and varieties of hardware and software are required to run the applications for a small and medium enterprise. One can imagine what human and capital resources are required to install, configure, test, run, secure, and update the applications for a large enterprise.

With cloud computing, an experienced vendor manages the shared infrastructure and platforms that run the applications. There are many services according to several fundamental models offered by the vendors: infrastructure as a service (IaaS), platform as a service (PaaS), and software as a service (SaaS) (Voorsluys et al., 2011). IaaS means the clients can rent the hardware and tools to maintain the hardware. PaaS means the clients can rent everything but the applications. SaaS means the clients can rent applications and ac-

cess them over the internet. The clients using SaaS usually are the application developers.

The clients determine appropriate costs for the services they need. The services can be upgraded automatically, and scaled up or down easily. Cloud computing provides both cost and time effective solutions in running business as the majority of costs in development, running and maintenance of hardware and software are covered by the vendor. Besides, the cloud-based applications can be set up and running in days or weeks. Once the cloud applications are set up, the clients can open a browser, log in, customize the applications, and start using it.

A vast variety of business applications are running in the cloud, for example, customer relationship management (CRM), human resources and accounting. The potential clients should first rigorously test the security and reliability of the vendor's infrastructure before moving their applications to the vendor's cloud.

3 Recent development of cloud computing

Enterprises of any size are aware of tremendous value provided by cloud computing. Many countries compete in the development of cloud computing infrastructures. Case studies of the recent development of cloud computing in Asia which include Malaysia, Singapore and Hong Kong, and western countries which include United States of America (USA) and Germany are presented.

MALAYSIA

Potential business opportunities arising from cloud computing in Malaysia is blooming. In order to accelerate ICT adoption and promote locally made software and services, Multimedia Development Corporation (MDeC) launched the MSC Malaysia Cloud Initiative for SMEs (<http://www.mscomalaysia.my> - Official Portal, MSC Malaysia). The initiative allows the MSC Malaysia Independent Software Vendors (ISVs) to deploy cloud software and services as a utility. A framework of standards and incentives are established to encourage users, particularly Malaysia SMEs, to adopt cloud computing services.

In the event of the signing ceremony of the strategic alliance formed between Universiti Malaysia Pahang (UMP) and Universitas Sumatera Utara (USU) held on September 21, 2011, at the administration centre of USU Medan campus, Indonesia, our Professor Dr. Jasni delivered a public lecture that discussed on computer and cloud computing technology curriculum in the backdrop of a highly competitive global setting. She applied the Malaysian experience when presenting about

the topic.

In 2012, Cloud computing in Malaysia has a significant rise from the RM140mil and expected to reach RM 2.9bil by year 2020 [9]. It was a focus area on Malaysia's ICT Roadmap and it having created 3,000 jobs in 2012, according to Multimedia



Development Corporation (MDEC) Chief Executive Officer, Datuk Badlisham Ghazali. He said that it will benefit in delivering on economies of scale, shared computing platforms, cost effective investment into infrastructure and greater human resources efficiencies.

During the 2013 MSC Malaysia Cloud Conference held in Hilton Kuala Lumpur on 9 Oct 2013, there are two (2) programmes introduced under MSC Malaysia Cloud Computing Initiative (MMCCI), ISV Cloud Computing Programme and SME Cloud Computing Adoption Programme [10]. The MDEC has appointed 6 Technology Partners to offer customized package of cloud hosting subscription, training and go to market under the ISV Cloud Computing Programme. The second programme offered by MDEC is designed to provide the SMEs rapid entry into Cloud Computing Software as a Service.

SINGAPORE

In Singapore, the Infocomm Development Authority (IDA) is responsible for the development and growth of the infocomm sector. The term Infocomm is commonly used in Asia which means Information and Communication(s) Technology (ICT). IDA has organized a series of cloud computing talk sessions in 2013. Its aims are to feature prominent cloud professionals sharing their

knowledge and experience on various cloud related topics, issues and applications.

The Singapore Government defines the cloud strategy to leverage the appropriate cloud for the appropriate need. To cope with this strategy, a cloud infrastructure called the Government Cloud (G-Cloud) is under developing. G-Cloud is a private cloud for the Whole-Of-Government to leverage on the benefits of cloud computing to provide resilient computing resources.

It is needed at where security and governance requirements cannot be met by public clouds. Government agencies can procure computing resources on-demand, with greater ease and speed within this secure ICT shared environment. A full range of Infrastructure-as-a-Service for hosting Government websites and e-services are provided for the agencies to subscribe. These services include compute, storage, network, security, operating systems, middleware and databases. Software-as-a-Service offerings, such as business analytics and web content management are also provided on G-Cloud in the near future.

In order to benefit from lower cost of computing resources, the available public cloud offerings are commercially leveraged by the government for appropriate needs. For instance, a collaboration and email system called iCONnect is the Ministry Of Education's system for teachers built on a public cloud.

HONG KONG

The Government of the Hong Kong Special Administrative Region of the People's Republic of China is aware of the significant impact on cloud computing. One of the important missions of the Government is to foster Hong Kong's

position as the prime location for high-tier data centres in the Asia Pacific region.

With reference to the Legislative Council Panel document (LC Paper No. CB(1)1783/11-12(06)) date 14th May, 2012, a discussion on the implementation of a government cloud platform has been conducted. It followed with the development of a Government Cloud Platform (GovCloud) for hosting common e-government services for shared use by bureaux and departments (B/Ds), such as electronic information management. The GovCloud is implemented and operated by Atos Information Technology HK Limited for a term of seven years. The estimated contract value over the seven-year period is \$127 million (www.ogcio.gov.hk - Press release, OGCIO).

In addition, the Government is planning to build a site in Tseung Kwan O designated for the development of a high-tier data centre. The site will be installed of a cluster of 12 high-tier data centres. The centre is served by advanced telecommunications networks, two submarine cable landing stations and two power substations supporting the Tseung Kwan O area (www.infocloud.gov.hk).

WESTERN COUNTRIES (INCLUDING USA)

Most important companies in cloud computing are headquartered in western countries. They are Amazon, VMware, Microsoft, Salesforce, Google, Rackspace, IBM, Citrix, Joyent and SoftLayer. The first important "public" cloud vendor is the electronic commerce giant Amazon with headquarters in USA. Amazon Web Services (AWS) is the largest "public" cloud vendor. Amazon stores the hardware in its own data center. By sharing the hardware via a public cloud through the internet, the customers can

pay lower costs for the services. The clients can select Amazon's cloud services from a bit of cloud storage for a few pennies a month to renting of supercomputers with strength power for US\$5,000 an hour.

In 2013, Amazon won a massive 10years,US\$600 million contract to build a "private" cloud infrastructure for the Central Intelligence Agency (CIA). The hardware and software of private cloud are dedicated to a single customer's use and not shared with others. The same technologies of public cloud can be applied to private cloud but the private cloud is built in a customer's own data center. This makes the data center more efficient.

Second, VMware offered software called vCloud for building clouds and planned to launch its own public cloud. Third, Microsoft has a big enterprise cloud called Azure. Azure is particularly suited for developers who have already written applications using Microsoft's coding tools. Fourth, Salesforce provided one of the most popular PaaS clouds for running the applications called Heroku.

Fifth, Google launched IaaS service called the Compute Engine. Other popular services are also provided like PaaS called Google App Engine, Google Cloud Storage, application called Google BigQuery, consumer and business cloud applications like Google Drive and Google Apps. The clients can run all apps from the cloud on Chromebook and Chromebox which operate on Chrome OS. Sixth, Rackspace partnered with NASA runs an IaaS cloud.

Seventh, IBM uses OpenStack for its public "smart clouds". OpenStack is a free cloud operating system with an open source that is built by a consortium of vendors including IBM, Rackspace and HP.

Eighth, Citrix makes software for clouds called CloudStack, to the Apache Foundation. Ninth, Joyent developed its own cloud operating system and offered competitive cost for service providers needing big cloud data centers. Tenth, SoftLayer is known as the largest privately held cloud-computing and webhosting service provider.

4 Potential Business Opportunities

After reviewing the recent development of cloud computing around the world, there are several critical potential business opportunities identified. These will give an insight among government, industry, academia, educators, scholars and research institutions on their future plans in making strategies towards the new IT era. The investigation on these opportunities concerns with mobility and collaboration; cloud services for small and medium enterprises (SMEs); cloud infrastructure; cloud security; development, promotion and training on cloud computing; education and research on cloud computing.

MOBILITY AND COLLABORATION

Mobility and collaboration are becoming popular features in business applications through cloud computing. Consumers expect that the useful business information will be pushed on their mobiles in real time through business applications in the cloud. Running business using cloud through mobile is similar to keeping up with personal life on Facebook and Twitter.

CLOUD SERVICES FOR SMEs

General useful references for both cloud consumers and providers, especially small and medium enterprises (SMEs), to facilitate their selection, management and provision of cloud services are necessary to be provided by each country's

Due to the different cloud computing platforms and services, and the heavy processing and huge amount of storage required for such business, the cloud being developed should be supported for these specific needs for each organisation.

CLOUD INFRASTRUCTURE

The cloud should be built on advanced telecommunications infrastructure. It is important for the pillar industries such as financial services, trading and logistics. In addition to the hardware costs of the infrastructure, the customers should consider other cost implications which are reliable power supply and the differences of tariffs among each country.

CLOUD SECURITY

A sound legal system with safeguards for free flow of information and protection of data privacy is the foremost of concerns by organizations. As such, advancing standards for cloud computing security are sought by each country. The standards should cover the diversity of all security risk requirements such as the variations from users to users. Effective solutions on control measures are specified for different levels of security requirements in the relevant standards. For instance, Singapore Standards are established in accordance with the World Trade Organization requirements. More specifically, the development of multi-tier cloud security (MTCS) standard addresses the relevant cloud computing security practices and controls for public cloud users, public cloud service providers, auditors and certifiers.

Cloud service vendors are competing in rising up the quality level of security by adding more security features to their cloud. This leads to the success of marketing the cloud services of an enterprise which are safe and reliable. On the other hand, the users including SMEs should understand various security risks and the necessary security measures. The security measures can be found on information security guidelines which are formulated with reference to the international standards.

DEVELOPMENT, PROMOTION, PROMOTION AND TRAINING ON CLOUD COMPUTING

Close corporation among government authorities and SMEs are critical in studying ways to promote SMEs to adopt cloud computing services for enhancing operational efficiency, productivity and customer services. Government sectors should initiate and sponsor development, promotion and training on various programmes to promote the use of cloud computing among SMEs. The development of applications and solutions for individual SME sectors will attract SMEs to suitably adopt cloud computing services. SMEs will be benefited from cloud computing technology in enhancing their operational efficiency.

Promotion and training of cloud computing can be achieved publicity through online media, distributing information leaflets, co-organizing promotional activities with IT industry and SME-related organizations, participating in seminars, and continuously enriching the content of the Practice Guide and the security checklists.

EDUCATION AND RESEARCH ON CLOUD COMPUTING

Professional institutes and universities should provide educational and training modules on the knowledge of various virtualisation technologies like VMware; operating systems like Windows 2000/2003/2008, RedHat and CentOS; application servers; advance database design and development; web technology; information security management like firewall and IDS; system management skills on servers and SANS as well as advance network knowledge.

Apart from educational issues, research on the concepts and technology required developing solutions for the emerging s

sectors like creative media and contents using cloud based services and technology is demanding. Due to the different cloud computing platforms and services, and the heavy processing and huge amount of storage required for such business, the cloud being developed should be supported for these specific needs for each organization.

5 Conclusion

Cloud computing becomes an indispensable technology in running business. After reviewing recent development of cloud computing around the world, potential business opportunities arising from cloud computing are identified. They are classified in accordance to the trend and issues in developing cloud computing for business applications. Such opportunities concern with mobility and collaboration; cloud services for small and medium enterprises (SMEs); cloud infrastructure; cloud security; development, promotion and training on cloud computing; education and research on cloud computing.

Applying cloud computing to collaborate everywhere through mobile devices becomes the trend in ICT industries for the next decade. The impacts of this trend can be seen on everyone's daily lives. Personal files are stored in the cloud using mobile phones. Friendships are maintained via applications in the cloud using tablets. Powerful applications are run via the cloud using both mobile phones and tablets.

This leads to huge amount of investments being allocated in renting cloud services, applications and servers by enterprises.

SMEs are able to afford cloud services with high data availability and data protection. SMEs only need to pay for the surfaces that are suitable for their scales of operation via the inter-

SMEs find lots of advantages by using cloud services such as improving workflow, enhancing the efficiency of business development, operations and service standards, as well as boosting their competitiveness. The effective use of cloud computing services fosters the sustainable economic growth of the country.

High-tier data centres are critical infrastructure supporting each country's continuous economic development. The advanced telecommunications infrastructure should be built under the consideration of cost, usability, and security. A high quality infrastructure provides a good cloud computing environment. This in turn will substantially reduce service delivery time and enhance the responsiveness in meeting dynamic demands through rapid provision of computing resources, including processing power, network bandwidth and disk storage.

Regarding the potential risks in information security of cloud computing, cyber attacks on public networks are inevitably unavoidable. There are valuable, sensitive and personal privacy information data being processed and stored through the connection of cloud network among users and cloud service providers. The government authorities should provide solutions to help SMEs understand and remove such risks. The solutions are developed aimed at protecting such information and minimizing the risks arising from cyber attacks. Preventive and security measures should be adopted by enterprises when selecting and using cloud services.

The development of hardware and software for cloud computing requires huge amount of investment. Apart from the private companies' contributions on the development of cloud computing solutions, government sectors should also be involved in the role of sponsorships. It is anticipated that SMEs will be benefited from cloud computing technology in enhancing their operational efficiency.

Despite the role of government in supporting cloud computing business, educational and research sectors also play an important role to deliver current state of art technology and emerging skills in cloud computing to SMEs. Graduates from professional institutes and universities should have strong technical and management skills in cloud computing. They should be educated as proactive self-starters with an analytical and creative mind in order to manage the grasp of all these great business opportunities.

6 References

- [1] Mariana Carroll, Paula Kotzé, Alta van der Merwe, 2012. Securing Virtual and Cloud Environments. In: *Cloud Computing and Services Science, Service Science: Research and Innovations in the Service Economy*, edited by I. Ivanov et al., DOI 10.1007/978-1-4614-2326-3 4, © Springer Science+Business Media, LLC 2012.
- [2] MohdRahul, MohdJunedulHaque, MohdMuntjir, 2012. Impact of Cloud Computing on IT Industry: A Review & Analysis. *International Journal of Computer and Information Technology*, Volume 01– Issue 02.
- [3] WilliamVoorluys, JamesBroberg, RajkumarBuyya, 2011. Introduction to Cloud Computing. In R. Buyya, J. Broberg, A.Goscinski. *Cloud Computing: Principles and Paradigms*. New York, USA: Wiley Press. pp. 1–44.
- [4] www.infocloud.gov.hk-InfoCloud portal by The Office of the Government Chief Information Officer (OGCIO).
- [5] LC Paper No.CB(1)1783/11-12(06) - Briefing to Legislative Council Panel on Information Technology and Broadcasting on implementation of a Government Cloud Platform Press release on Contract awarded for implementation of Government Cloud Platform, The Office of the Government Chief Information Officer (OGCIO), www.ogcio.gov.hk/en/news_and_publications/press_releases/2013/03/pr_20130328.htm
- [7] <http://www.mscomalaysia.my> - Official Portal, MSC Malaysia is Malaysia's national ICT initiative designed to attract world-class technology companies while grooming the local ICT industry.
- [8] <http://www.mscomalaysia.my> - Official Portal, MSC Malaysia is the gateway to the ICT industry in Malaysia and the region.
- [9] <http://www.thestar.com.my/> - The Star Online
- [10] <http://www.cloudmsc.com.my/> - MSC Cloud Computing Conference 2013



Student Achievements

By Zarina Dzolkifli



5th October 2013 – Our faculty has graduated a total of 249 undergraduate students, and a total of 18 post-graduate students.

PENGAMBILAN PELAJAR SESI AKADEMIK 2013/2014

Program	1 st Class Honor	2 nd Class Upper	2 nd Class Lower	3 rd Class
Bachelor of Software Engineering	2	49	26	0
Bachelor of System Networking	10	48	28	2
Bachelor of Computer & Graphic	7	19	13	0
Diploma of Computer Science	0	45		0

PROGRAM	Jumlah Pengambilan SEPT 2013		
	Daftar	Unjuran	%
BCG	55	60	91.7
BCS	89	90	98.9
BCN	86	90	95.6
DCS	97	90	107.8
KCT	3		
KCS	2		
KCN	1		
MCC	1		
MCS	1		
PCS			
PCC			
	335	330	102

Program	No of student
Master by Coursework (ICT)	9
Master by Coursework (Networking Computer)	2
Master by Research	2
PhD (Computer Science)	5

5th October 2013 - Siti Hawa Apanadi was awarded a Gift-Industry Excellence Award 'Hadiah Industri-Hadiah Kecemerlangan HeiTech' in 8th convocation at UMP. The award for excellence in education and research to successfully obtained a Bachelor of Computer Science (Software Engineering) with CGPA 3.88. A big congratulation to her and hope this will motivated and inspire others to be successful.





Pelajar UMP raih dua anugerah

Jamunaa turut menerima biasiswa dalam bahasa Mandarin di China

Orang Muda

INFO

- P Patchappan
- Pelajar tahun tiga, Fakulti Sistem Komputer dan Kejuruteraan Perisian UMP
- Juara Pertandingan Chinese Bridge Peringkat Kebangsaan

12th July 2013 – One of our students of the Faculty of Computer Systems and Software Engineering (FSKPP), Jamunaa A / P Patchappan, 23 had won two awards ‘Excellence Award’ and ‘Kharisma Award’ in the Chinese Bridge competition held internationally in 2013 in Hunan, China begins on 1 July and 12 July. She also received a scholarship award sponsored the Hanban in China to allow him to learn Mandarin in China. This international competition organized by Hanban, China in cooperation with Hunan Satellite TV, China saw the participation of 123 students among 79 candidate countries.



4th August 2013 - There were 7 students participated in Infosys at USM. Three out of them student from our faculty managed to carve a name in the program which are Devamekalai A/P Nagasundaram managed to get 3rd place, and Lee Sim Siew and Nabihah Nordin managed to get top ten.

22nd April 2013 – The 4th International Engineering Invention & Innovation Exhibition, (i-ENVEX2013) Siti Hawa Apandi had won gold medal for her research title ‘Sistem Pengurusan Pintar Kehadiran’ and also received an award ‘Anugerah Khas i-Envex for i-ENVEX Best Award (ICT Multimedia, Telecommunications, Electricity & Electronic. Together with Tham Cheng Bin with project title, Project Touch: Multi-touch Surface with Natural User Interface Integration had won silver medal. Prassana Pillai A/P P. Rajadran with project title Mobile Advertising via Bluetooth and 2D Barcodes had won bronze medal.



Capai kejayaan dalam Pameran Antarabangsa i-Envexa

UMP raih 15 pingat

UMP (Helo Kompleks 157/13 (Rd) 4613 G

Oleh SITI NORAZAH
SITI HAWA APANDI
suaasak@gmail.com

KUANTAN 14 Mei – Universiti Malaysia Pahang (UMP) meraih kejayaan apabila pada pementasannya meraih 15 pingat dalam Pameran Antarabangsa Inovasi dan Berkeadilan (i-Envex) di Universiti Malaysia Perlis (UniMap), Perlis baru-baru ini.

Pementasan yang dianjurkan oleh Universiti Malaysia Perlis (UniMap) dan Universiti Malaysia Pahang (UMP) ini turut mendapat kerjasama daripada Kementerian Pendidikan Tinggi serta Kementerian Sains, Teknologi dan Inovasi.

Program Persembahan Anugerah dan Medali UMP oleh Menteri Besar, Datuk Abdul Wahid Jusoh, para penjurutuaun, universiti, para peserta meraih enam pingat emas, tiga perak dan enam gangsa.

Tambahan, lebih membentangkan kepada seorang penjurutuaun kuarang upaya (OKU), Siti Hawa Apandi dari Fakulti Sistem Komputer dan Kejuruteraan Perisian (FSKPP) anugerah pingat emas merentas persembahannya bertajuk Sistem Pengurusan Pintar Kehadiran.

Katanya, bukan itu sahaja, Siti Hawa juga turut menerima Anugerah Kelas i-Envex bagi kategori Multimedia, teknologi maklumat dan komunikasi (ICT), telekomunikasi, elektronik dan elektronik.

"Peningkatan persembahannya adalah oleh penajangnya FSPP, Insa-

by Ghazali Chikrih Bused Chikrih. "Candungan dan pementasannya, Muhammad Noor Azren Mohd. Khalid dan Noor Adilah Md. Saibani yang menghasilkan projek persembahannya bertajuk Recycling Of Microcontroller (M2U) Water-waster Drog Bioadherents Treatment System (From Waste to Wealth) berjaya meremang pingat emas serta menajangi Anugerah Persembahan bertajuk Electronic Product Media (EPOVA)." Manja.

Dalam pada itu, Noor Adilah berkata, persembahannya berkaitan internet era baharu ini dengan menggunakan persembahannya jadi seperti chat room, sistem pada, jadi pingat dan banyak nilai yang dapat kerana melalui proses penyediaan bertepatan.

"Saya amat menghayati sokongan penajangnya yang banyak membina sehingga mencapai kemenangan ini kerana melalui persembahan di internet oleh juru semua seni persembahan dipentaskan," katanya.



6th April 2013 - Winner of Best Of The Best Award in conjunction with the research competition Creativity, Innovation, Technology & Research (CITREX 2013) won the student category of disabled students, Siti Hawa Apandi from the Faculty of Computer Systems and Software Engineering (FSKPP) with the title 'Smart Attendance' which also won the gold medal. She managed to create software to solve the school in Kuantan monitor student attendance in class more effectively.

SABTU 6 APRIL 2013 **Harian Metro**

'Pembakar semangat saya'

Gadis OKU azam guna kemahiran bidang komputer hasil lebih banyak perisian

Oleh Mohd Razi Mamat
am@medaputra.com.my
Kuantan

"Kemahiran membina komputer ini akan menjadi pembakar semangat kepada saya untuk terus menghasilkan lebih banyak perisian bagi kegunaan dalam pelbagai sektor.

"Kemahiran yang ada akan digunakan sepenuhnya untuk saya buktikan anak Melayu mampu bersaing dalam bidang komputer," kata gadis orang kelainan upaya (OKU), Siti Hawa Apandi, 24.

Bekas pelajar Fakulti Sistem Komputer dan Kejuruteraan Perisian (FSKPP) Universiti Malaysia Pahang (UMP) ini, antara 17 pelajar yang menyertai pertandingan penyediaan persembahan Pementasannya bertajuk Inovasi, Teknologi dan Penyelidikan (CITREX) 2013.

Program tiga hari itu dianjurkan Jabatan Penyelidikan dan Inovasi dengan kerjasama Jabatan Hal Ehwal Pelajar dan Alumni UMP di Kompleks Sukan UMP berakur kelmarin.

Siti Hawa yang juga pemegang Bazar Sarjana Muda Sains Komputer (Kejuruteraan Komputer) UMP menghasilkan sistem rekod kedatangan pelajar sekolah bertajuk 'Smart Attendance' meraih pingat emas dan anugerah 'Best Of The Best' kategori pelajar.

Peningkat pingat emas dan anugerah 'Best Of The Best' kategori kejuruteraan UMP dinobatkan penyandang Fakulti Kejuruteraan Kimia dan Sumber Asli (FKKSA), Prof Madya Dr Miru Sukri-Nikniah Abdul Musawir dengan projek bertajuk 'Xmas'.

Anugerah khas teknologi hijau dinobatkan penyandang Fakulti Kejuruteraan Awam dan Sumber Alam (FKASA), Mohd Naji Basali, yang menghasilkan sistem pemantauan minyak.

Siti Hawa yang menggunakan kerusi roda berkata, sistem aplikasi dihasilkan memberi kemudahan kepada guru menyemak rekod kedatangan pelajar secara cepat, mudah dan tepat.

Majlis penyempurnaan hadiah diempunkan di Mahkamah UMP Prof Datuk Dr Daling Nasir Ibrahim,



30th June 2013 – Our students Hazim Mohamed Anas received a silver medal and special award Korea Invention Associations with project entitled Smart Attendance Management System

Harian Metro (2/09/2013) BSM

SEKITAR PENDAFTARAN PELAJAR BARU

Tolak belajar di India

■ Yakin kualiti, keupayaan UMP lahirkan graduan terbaik

Oleh Mohd Rafi Mamat
am@mediaprima.com.my
Kuantan

Yakin dengan kualiti dan keupayaan Universiti Malaysia Pahang (UMP) melahirkan graduan terbaik dalam bidang kejuruteraan mendorong seorang remaja menolak tawaran melanjutkan pelajaran di India kerana mahu mencari ilmu di universiti tempatan.

Ainil Fahsha Nasrun Adil, 19, berkata dia yakin pengalaman lebih 10 tahun UMP memberi kelebihan kepadanya memiliki segulung ijazah dalam bidang kejuruteraan komputer.

“Keupayaan UMP melahirkan tenaga kerja profesional dalam bidang kejuruteraan mendorong saya memilihnya dan menolak tawaran dalam bidang perubatan di India,” katanya.

Ainil Fahsha antara 1,905 pelajar baru ijazah sarjana muda yang ditawarkan tempat di UMP kampus Gambang, di sini dan Kuala Pahang, Pekan.

Ainil Fahsha yang sebelum ini belajar di Kolej Matrikulasi Tangkak, Johor berkata, kelebihan UMP antara universiti terkemuka di negara ini membuatkan dia tidak teragak-agak memilih pusat pengajian berkenaan.

Menurutnya, dia tidak terkilan menolak tawaran dalam bidang perubatan kerana yakin bidang komputer menjanjikan peluang pekerjaan lebih luas di negara ini selain menjanjikan pendapatan lumayan.

Bagi Hamim Sovester, 19, tawaran melanjutkan pengajian di UMP dianggap suatu hadiah bererti bagi mencapai cita-cita menjadi seorang jurutera suatu hari nanti.

“Saya sanggup meninggalkan kampung di Ranau, Sabah semata-mata ingin memenuhi cita-cita memiliki segulung ijazah dalam bidang kejuruteraan awam,” katanya.



AINIL Fahsha

Impian Muhd Fakhur Razi tercapai



*MH (V-phi)
Fikriyati 22/12/11
no 145*

Hasrat Muhd Fakhur Razi Shahrudin, 22, untuk menuntut ilmu hingga ke Meir tercapai apabila menyertai program Ijazah Sanad Al-Quran di Kaherah, Jamari laho.

Pelajar Ijazah Sistem Komputer dan Kejuruteraan Perisian (FSKKP) Universiti Malaysia Pahang (UMP) itu mendalami kemahiran membaca al-Quran menerusi Kelas Pembacaan Al-Quran dan Kelas Pengajian Tajwid di Darrasah, Kaherah.

Katanya, proses bagi mendapatkan ijazah sanad itu agak mencabar kerana peserta diuji dengan kemahiran membaca kitab suci itu serta kebolehan menguasai makhruj.

Beliau berkata, penguasaan sekarang kurangnya 50 peratus ilmu tajwid dan tiada kesalahan berat dalam bacaan yang disampaikan juga perlu dipatikan.

"Saya tidak sangka dapat memegang kaki di binti Anbia yang pernah diimpikan dulu selepas persekolahan Sekolah Menengah Agama Al Ihsan, Kuantan.

Menimba pengalaman
"Semuanya bermula apabila Pusat Islam dan Pembangunan Insan dengan kerjasama IQBA Training and Consultancy menawarkan program mempelajari dan menguasai sanad al-Quran daripada tenaga pengajar beribwaha di Asia Barat," katanya.

Sepanjang dua minggu di Kaherah, Muhd Fakhur Razi dan lapan lagi pelajar UMP mengikuti pengajaran oleh Syeikh Asyraf Hamid Hasanain dan Syeikh Abdul Aziz Baidowi bagi kelas pembacaan al-Quran selain mengikuti pengajian tajwid dengan Utaz Hakim Azizan.

PROFIL
Nama: Muhd Fakhur Razi Shahrudin
Tarikh lahir: 9 November 1991
Asal: Kuantan, Pahang
Aduk beradik: dua beradik
Pendidikan: Ijazah Sistem Komputer dan Kejuruteraan Perisian (FSKKP)
2011
Fakultas MINDS
Ezra Perumahan Nelayan
Kedudukan 1
2012
Fakultas MINDS
2013
Pusat Perawatan Teknologi Komputer

Katanya, pengalaman berharga di Kaherah bukan sekadar mempelajari al-Quran, malah pendedahan terhadap budaya dan masakan bangsa Arab.

Kelas peristina
"Program ini mampu memberi pendedahan kepada mahasiswa mengenai sejarah Islam, cara bacaan bertajwid serta sebutan makhruj huruf yang betul dipraktikkan sejak zaman Rasulullah SAW hingga kini.

"Saya bersyukur kerana diberi peluang untuk menyertai program ini dan bergoyang kepada nasib Syeikh Asyraf Hasanain agar memuatkan bacaan al-Quran yang betul supaya maksudnya tidak berubah," katanya.

Kini, beliau dan peserta program itu mengadakan kelas membaca al-Quran secara sukarela bagi membantu pelajar UMP lain membaca kitab suci itu dengan betul.

Beliau berharap usaha murni itu mampu membedakan amalan memotivasi ilmu yang menjadi kegemilangan bagi memastikan kesejahteraan hidup di dunia dan akhirat.

Dua minggu di Kaherah

*MH (V-phi)
Fikriyati 22/12/11
no 145*

Dikiri: Mini Nabita Abdul Wahit
mhwahit@qib.com.my
» Cambang

malikan sejak zaman Nabi Muhammad SAW.

Bacaan tepat
"Sejak zaman Rasulullah SAW, pembacaan al-Quran diwarisi secara penyempul berdepan guru dan murid dari mulut ke mulut bagi menepati bacaan yang diturunkan kepada baginda.

"Sepanjang dua minggu program, masa mereka dipenuhi dengan Kelas Pembacaan al-Quran dan Kelas Pengajian Tajwid di Darrasah, Kaherah," katanya dalam majlis meraiakan pelajar program

FAKTA NOMBOR
30 pelajar dihantar ke Kaherah, Meir



Prof Dr Daini Nur dan Prof Hasan bersama sembilan peserta Program Ijazah Sanad al-Quran yang berjaya menamatkan pengajian sanad al-Quran di Kaherah, Meir, baru-baru ini.

itu di UMP, di sini, baru-baru ini.

Najib Canselor UMP, Prof Daini Nur dan Prof Hasan berhadapan menyempurnakan penyempul ijazah sanad kepada pelajar berkenaan.

Teruskan tabung ini
Hasan berkata, program akan diperluaskan lagi dengan mengahantar 30 lagi mahasiswa institusi pengajian tinggi yang berminat untuk mendalami ilmu al-Quran.

Beliau berkata, pihaknya juga berhasrat menyempul tenaga pengajar Meir datang ke negara ini bagi melaksanakan program itu untuk manfaat lebih ramai pelajar.



Seven outstanding local software developers and their teams were recently honoured for their innovative software development skills by Microsoft Malaysia. As participants of Microsoft's WOWZAPP 2012 Hackathon for Windows in November 2012, they were presented awards at the company's office premises on Level 26, KLCC Petronas Tower 3 for besting over 413 students and software developers. Tham Cheng Bin (above, right), developer of the Tap Tap Color app, winner of the Most Fun Application category.



WHAT SHOULD I CHOOSE ? SONY SMARTWATCH 2 OR SAMSUNG GALAXY GEAR

By Siti Normaziah



VS



Nowadays, smart timepieces gadget is a most popular communication gadget. Looking like a normal watch, Sony Smartwatch 2 and Samsung Galaxy Gear have their own interesting point for fans of android. Sony Smartwatch 2 has a universal Android functionality which is compatible to any android phone, but Samsung Galaxy Gear support only a single device, Samsung Note 3. They have different features in several

specifications such as design, display, UI, functions and battery lifetime.

Overall, both of them have their own specialty that benefits to their user and table 1 shows the comparison table of features between Sony Smartwatch 2 and Samsung Galaxy Gear.

Do You Know?

WINDOWS ON MOBILE

Windows RT is a windows 8 operating system designed for mobile devices and use 32-bit ARM architecture. The initiative of designing the Windows RT for mobile is to take advantages the architecture's power efficiency to allow for longer battery life and used system

-on-chip. System-on-chip designs to allow for thinner devices and provide reliable experience over time.

However even though Windows RT and Windows 8 share same interface, they're completely different systems under hood. Windows RT devices run on ARM processor while Windows 8 runs on x86 processor, which provide more computing strength while using more power and generally found in desktop and laptops.

Windows RT comes pre-loaded on devices and unlike Windows 8, can't be purchased sepa-

rately. Because of the difference in architecture, apps that can run on windows 8 doesn't mean it can run on windows RT.



Table 1: Comparison table of features between Sony Smartwatch 2 and Samsung Galaxy Gear

	Smartwatch 2 (SW2)	Galaxy Gear
DESIGN	<ul style="list-style-type: none"> • Sexiest-looking smart timepieces • It was small, light, and attractively styled. • Flexible silicone wristband • Measuring a mere 1.65 inches tall by 1.61 inches wide and 0.35 inch thick, the SW2 is also extremely svelte. • Tipping the scales at just 0.8 ounce, Sony's device extremely light as well 	<ul style="list-style-type: none"> • Measuring 1.45 inches tall by 2.2 inches wide and 0.44 inch thick, • Additionally at 2.6 ounces, Samsung's watch is a lot heavier than the SW2. • It felt much lighter than expected.
DISPLAY	<ul style="list-style-type: none"> • One trade-off with the SW2's smaller size is its display. While it technically measures 1.6 inches across • It also packs fewer pixels than Sammy's gadget; 220x176 pixels as opposed to 320x320 pixels. 	<ul style="list-style-type: none"> • Its bigger 1.63-inch OLED screen serves up a sharper resolution (320x320 pixels). • The watch's display also produced images and text with vivid colors and high contrast. • The Gear's screen also was extremely bright - so much so that it gave my point-and-shoot camera trouble capturing its image.
FEATURES & UI	<ul style="list-style-type: none"> • Touch-screen UI, sliding widgets for viewing weather, Facebook, Twitter, e-mail, and other phone alerts • Compatible with many Android handsets, not just Sony phones. • Can also change the various watch faces for the device by selecting them via the Sony SmartWatch companion app on your smartphone. • Includes a dial pad for initiating calls right from the watch. 	<ul style="list-style-type: none"> • It will only be compatible with one phone, the Samsung Galaxy Note 3 • With its built-in microphone and speaker, the watch lets users conduct phone calls right from their wrists.
BATTERY	<ul style="list-style-type: none"> • Battery rated to last for 3 to 4 days, or 14 hours of continual use. 	<ul style="list-style-type: none"> • The Galaxy Gear's battery life at about 24 hours but it's unclear whether that's what users can expect out of the product through heavy or light operation. • The Gear does rely on the latest form of Bluetooth wireless, version 4.0, which brings with it the promise of enhanced electrical efficiency.
SLICK EXTRA	<ul style="list-style-type: none"> • SmartWatch 2 features an NFC chip for fast Bluetooth pairing with similarly equipped phones • The SmartWatch 2 has an app devoted to finding your phone if you've misplaced it. • The device will also alert you when your phone and watch move out of range from each other. • The SW2 gives you the ability to control music playback on your handset and displays album art on its screen as well. 	<ul style="list-style-type: none"> • The watch offer abilities of making hands-free calls and shooting pictures and video. • Gear can cause your phone to ring if you can't locate it. • With 4GB of onboard storage, the Gear can run tiny versions of apps locally.
DURABILITY	<ul style="list-style-type: none"> • Rated to meet the IP57 international standard for ruggedness • It can handle being dunked in 3 feet of water for up to 30 minutes without issue 	<ul style="list-style-type: none"> • The watch is designed to adhere to the IP55 protocol, less stringent than IP57 • Rated to survive brief sprays of water not total immersion
PRICE	RM 399	RM 999 (Must be purchased with Samsung Note 3 costly about RM 2,399.

HOT NEWS

By Roslina Ngah

New Members



Dr. Abdulrahman Ahmed
Mohammed Al-Sewari



Dr. Luhur Bayuaji



Dr. Ma Xiuqin



Dr. Mohammed Adam
Ibrahim Fakhreldin

Study Leave

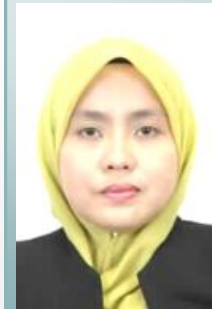


En. Aziman Abdullah

Welcome Back



Pn. Suryanti Awang



Pn. Fauziah Zainudin

Married



Ismalina Mohd Isah
24 August 2013

New Birth

Ku Saimah binti Ku Ibrahim – Baby Boy (1st Child) – 23 February 2013, HTAA

Rosmalissa binti Jusoh – Baby Boy (1st Child) – 28 Mei 2013, HTAA

Rahiwan Nazar bin Ramli – Baby Girl (3rd Child) – 4 June 2013, HTAA

Mohd Faisal bin Mohd Saari – Baby Boy (2nd Child) – 8 June 2013, HTAA

Mohd Fairuz bin Ramli – Baby Boy Triplet (1st Child) – 8 July 2013 , HTAA

Mohd Fahmi Toh – Baby Boy (1st Child) – 8 August 2013, HTAR Klang, Selangor

Mohd Akmal bin Najmuddin – Baby Boy (1st Child) – 28 August 2013, HTAA

Dr. Mohd Fadli bin Zolkipli – Baby Girl (4th Child) – 5 September 2013, HTAA

Dr. Eric Liew – Baby Boy (3rd Child) – 14 September 2013, HTAA

Muhammed Ramiza bin Ramli – Baby Boy (4th Child) – 26 September 2013, HTAA

Wan Nurulsafawati binti Wan Manan – 7 October 2013

INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING COMPUTER SYSTEMS 2013



Kuantan, 22 Ogos - Fakulti Sistem Komputer dan Kejuruteraan Perisian (FSKKP) Universiti Malaysia Pahang (UMP) menganjurkan Persidangan Antarabangsa Kejuruteraan Perisian dan Sistem Komputer (ICSECS) untuk kali ketiga yang berlangsung baru-baru ini di Dewan Astaka UMP ini.

Persidangan bertemakan "Engineering Software Towards Sustainable Quality Systems" yang memfokuskan bidang sistem komputer, rangkaian dan kejuruteraan perisian ini dirasmikan oleh Timbalan Naib Canselor (Penyelidikan dan Inovasi), Profesor Dr. Mashitah Mohd Yusoff.

Semasa menyampaikan ucapan, beliau berkata, perkembangan teknologi yang bermula pada era 80-an telah memacu pembangunan Sistem Komputer, Kejuruteraan Perisian dan Teknologi Maklumat. Malah, dunia kelihatan semakin kecil dengan kemunculan teknologi internet yang memudahkan urusan kehidupan seharian dan pekerjaan dengan adanya pelbagai perkhidmatan atas talian.

"Aktiviti penyelidikan dan pembangunan dalam bidang-bidang ini tidak seharusnya hanya menumpukan penyelidikan dan pembangunan sistem dan teknik, malah ianya juga perlu menekankan tentang aspek kelestarian sistem dan teknik tersebut," katanya semasa merasmikan program. Hadir sama dalam majlis, Timbalan Naib Canselor (Akademik dan Antarabangsa), Profesor Dato' Ir. Dr. Badhrulhisham Abdul Aziz.





Dalam majlis ini dua orang pembentang kertas kerja menyampaikan ucap-tama iaitu, Professor Dr. Jasni Mohamad Zain dengan tajuk 'Sustainable Quality Systems in Organizations' dan Professor Dr. Michael Wagner dengan tajuk 'Biometric Person Authentication - Strengthening Our Defences in the Face of a Computer Security Crisis'.

Turut diumumkan dalam persidangan, tiga kertas kerja terbaik dimenangi oleh Ismail Assayad, Abdelouahed Zakari, Mohamed Sadik dan Tarik Nahhal dengan tajuk "Modeling and Analysis of Heterogenous Architectures and Application to System C. Manakala peserta Tee Connie, Micheal Kah Ong Goh dan Andrew Beng Jin Teoh yang membentangkan tajuk "Subspace Learning On Grassmannian Manifold For Human Gait Analysis" juga dipilih memenangi kategori ini.

Selain itu kertas kerja oleh Mohd Hanis Rani dan Profesor Dr. Abdullah Embong yang bertajuk "Predicting Student Performance in Object Oriented Programming Using Decision Tree: A Case at Kolej Poly-Tech Mara, Kuantan," turut diumumkan sebagai pemenang. Sementara itu, pembentangan daripada Zainura Idrus, Siti Z.Z. Abidin, N. Omar dan Ajab Akbarally dengan tajuk 'Modeling Role Behavior for Managing Users Through a Networked Collaborative Monopoly Game Abstraction menang kategori pembentang terbaik dalam persidangan ICSECS pada kali ini.

Peserta persidangan juga berkesempatan melawat beberapa tempat menarik di sekitar Pahang seperti Muzium Sungai Lembing, Pusat Penerangan dan Konservasi Penyu dan Teluk Chempedak.

FSKKP (or *Fakulti Sistem Komputer & Kejuruteraan Perisian*) has received 'new staff', 'new return of study-leave staff' and 'new student' prior and during 'new semester' in the 'new academic-system-calendar' that historically happen in 2011. Coincidentally, the editorial of FSKKP Bulletin has decided to publish it 'new' first edition, also in 2011. In whatever situation, the 'new' are going to face with the 'old' FSKKPIans.

The humming question is that, how to get these two cooperated and united? Thus... the jingle "1Faculty, 1Heart" has been introduced... However, what does the jingle meant?

First... Respect Others

- ♦ Respect and appreciate the values, beliefs, cultures, and history of others. Use this understanding to counteract prejudice and stereotypes.
- ♦ Create an environment where others feel welcome, are included, and thrive
- ♦ Encourage and carefully consider a wide range of opinion and beliefs
- ♦ Educate yourself about other cultures
- ♦ Challenge the beliefs that a person's inherent capacity is limited by background or group membership

Second... Cooperate With Others

- ♦ Interact with others in ways that are friendly, courteous, and tactful and that demonstrate respect for others' ideas, opinions, and contributions.
- ♦ Seek input from others in order to under-

stand their actions and reactions.

- ♦ Offer clear input on own interests and attitudes so others can understand one's actions and reactions.
- ♦ Try to adjust one's actions to take into account the needs of others and/or the task to be accomplished.

Third... Exercise Rights and Responsibilities

- ♦ Act and advocate on behalf of yourself and others, taking into account laws, social standards, and cultural traditions.
- ♦ Recognize and assume your share of family, civic, and work responsibilities
- ♦ Monitor and keep up to date on federal, state, and local laws and regulations
- ♦ Make sure your own behavior is just and responsible
- ♦ Take personal responsibility to bring about change or resolve problems to achieve a common good.

Fourth... Seek Guidance from Others

- ♦ Help yourself succeed by asking for information, advice, and assistance.
- ♦ Recognize when you need help and know where to go for it
- ♦ Seek out relationships with people whose judgment is trusted
- ♦ Create and make use of networks of personal and professional contacts
- ♦ Be responsive to new ideas and accept and use constructive criticism and feedback

Fifth... Guide and Support Others

- ♦ Help others succeed by setting an example, providing opportunities for learning, or giving other kinds of assistance.
- ♦ Acknowledge and reward others' strengths and accomplishments
- ♦ Contribute to creating supportive, learning environments and experiences
- ♦ Empower others through mentoring, coaching, and being a role model.



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2013 FSKKP ACTIVITY

3 JAN 2013 - SEMAKAN PERMOHONAN GERAN FRGS DAN ERGS BERSAMA PROF.DR.SHAHRIN SAHIB, UTEM CONFERENCE ROOM, JHEAA

8-9 JAN 2013 - MQA WORKSHOP FOR FSKKP POSTGRADUATE PROGRAM DEWAN TUN FATIMAH



16 JAN 2013 - PERBENTANGAN LAPORAN TAHUN 2012 KEPADA DATO' NC, TNC (P), DEKAN IPS DAN PENGARAH BJIM

18 FEB – 2 OGOS 2013 - PELAJAR DIPLOMA : NORFATINFAIZAH BINTI ABD. RAHIM (CC10085) MENJALANI LATIHAN INDUSTRI DI TURKI , SYARIKAT KURTULUS HUKUK BUROSU, JABATAN WEB DEVELOPER & GRAPHIC DESIGNER, IT DEPARTMENT

23 MAC 2013 - PROGRAM FINISHING SCHOOL DI FSKKP



20 MAC 2013 - TRAINING FOR TRAINER - FSKKP STAF

16 APRIL 2013 - LAWATAN KERJA RASMI DARI UNIVERSITI TEKNOLOGI YOGJAKARTA (UTY) KE UMP

APRIL 2013 - HI-TEA FSKKP KMPH



10 MEI 2013 - BRIEFING SESSION ON CONTINUOUS PROFESIONAL DEVELOPMENT (CPD) BY BLPK



7- 9 JUN 2013 - BENGKEL PENGSTRUKTURAN BAHAGIAN PENTADBIRAN & TEKNIKAL FSKPP



2013 FSJKP ACTIVITY

19 JULAI 2013 - PENERANGAN TENTANG KEWAJIPAN ZAKAT PENDAPATAN (ZAKAT GAJI) OLEH WAKIL PUSAT KUTIPAN ZAKAT



20-22 OGOS 2013 - PERSIDANGAN ANTARABANGSA KEJURUTERAAN PERISIAN DAN SISTEM KOMPUTER (ICSECS) UNTUK KALI KETIGA



29 OGOS 2013 - LAWATAN WAKIL DARIPADA UNIVERSITY OF COMPUTER SCIENCE & ENGINEERING (UNIMY), CYBERJAYA



3 SEPTEMBER 2013 - TAKLIMAT FAKULTI DENGAN PELAJAR TAHUN PERTAMA



SEPTEMBER - JAMUAN RAYA PERINGKAT UMP

3 – 5 OKTOBER 2013 - LAWATAN PENILAIAN AKREDITASI PENUH OLEH MQA BAGI PROGRAM MSC. ICT, FSKPP



7 – 8 OKTOBER 2013 - LAWATAN JURUAUDIT PROGRAM PASCA SISWAZAH FSKPP

6 – 7 NOVEMBER 2013 - THE IPV6 TRAINING BY INTERNETWORKS RESEARCH LABORATORY, UUM

PROMOSI FAKULTI PROGRAM

JOM MASUK U ANJURAN KEMENTERIAN PENGAJIAN TINGGI

By: Prof Madya Dr Noraziah Ahmad



TARIKH: 22-23 Januari 2013

TEMPAT: Perkarangan Stadium Tertutup Kompleks Sukan Negeri Terengganu, Gong Badak Kuala Terengganu, Terengganu.

PEGAWAI PENGIRING:
Prof Madya Dr Noraziah Ahmad (wakil FSKKP)

AHLI TERLIBAT:

- En Rosilavi bin Mat Jusoh (Penolong Pendaftar Kanan, BPA)
- Pn Azlina binti Daharudin (Penolong Pendaftar, BPA)
- Pn Siti Masliza binti Abd Azis (Pembantu Tadbir, BPA)
- En Alhamdi bin Salleh (Juruteknik, BPA)
- Cik Nabilah binti Alias (Pensyarah FSTI)
- Pn. Norshahida binti Zaidon (Pegawai Sains FSTI)
- Dr Syed Mohd Saufi Tuan Chik (Pensyarah FKKSA)
- En Hafiz (CENFED)

LAPORAN PERJALANAN PROGRAM

Program Karnival Jom Masuk U telah dilaksanakan di Perkarangan Stadium Tertutup Kompleks Sukan Negeri Terengganu, Gong Badak Kuala Terengganu, Terengganu pada 22-23 Jan 2013 bermula pukul 9.00 pagi hingga 6 petang.

Program ini disertai 20 buah Universiti seluruh Malaysia termasuk UMP, UM, UKM, USM, UPM, UTM, UIAM, UUM, UNIMAS, UMS, UPSI, UiTM, UMT, UTHM, USIM, UTeM, UniMAP, UniSZA, UMK, UPNM serta Jabatan Pengajian Politeknik (JPP) bagi mempromosikan program pengajian lepasan SPM dan yang setaraf. Booth Universiti Malaysia Pahang (UMP) turut dikunjungi wakil Jabatan Pengajian Tinggi (JPT) sekitar jam 3.25 ptg. Secara keseluruhannya, Booth UMP mendapat sambutan hangat dan dikunjungi ramai calon-calon lepasan SPM dan STPM untuk bertanyakan program-program yang ditawarkan di UMP.

HASIL PROGRAM

Berdasarkan rekod promosi FSKKP di karnival ini, seramai 67 orang calon berminat untuk mengikuti program pengajian yang ditawarkan oleh FSKKP mengikut statistik kehadiran yang mana telah mendapat khidmat nasihat daripada wakil promosi FSKKP, Prof Madya Dr. Noraziah Ahmad.

CADANGAN

Menggunakan media elektronik untuk aktiviti promosi termasuk turut menayangkan video promosi / video korporat UMP. Walaubagaimana pun, penggunaan media elektronik perlu turut memper-
timbangkan keluasan ruangan booth UMP.



KESIMPULAN KESELURUHAN PROGRAM

Program berjalan lancar dan mendapat sambutan hangat daripada masyarakat setempat.

Contact Us:

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Kuantan, Pahang Darul Makmur.
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Website: <http://fskkp.ump.edu.my/>**

"To be a world class competency-based faculty in computer technology"