



Newsletter

Volume 4 (July 2009)

Centre For Graduate Studies



Approval for FKEKK and FKP to Offer Master by Coursework Programmes

UNIVERSITI TEKNIKAL MALAYSIA MELAKA
PUSAT PENGAJIAN SISWAZAH

STRIVE FOR EXCELLENCE

<http://www.utm.edu.my/pps>





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Greetings From The Editors

Assalamualaikum and greetings,

We would like to take this opportunity to welcome all new students, both local and international, who recently registered with us. To all continuing students, welcome back to UTeM.

As the new editors, we would like to extend our thanks and gratitude to En. Shamsul Bahari Bin Azraai for his contributions and for a job well done as the previous editor. The CGS Newsletter has been continuously improved in terms of its style and content, and the present Editorial Board strives to add more colours to its wings. It is our hope that this newsletter will provide informative and interesting news and articles.

We wish all the students good luck and thank you for choosing UTeM.

STRIVE FOR EXCELLENCE

Regards,

Dr. Tay Choo Chuan
Noorhayati binti Abu Bakar

Foreword

Assalammualaikum & Salam Sejahtera,

To embark on a post-graduate study is perhaps one of the significant decisions that you have made in your life. I should say that it is a brave (..and perhaps risky) decision that requires a high level of commitment from you. The need to stay motivated and focused on the topic that you have chosen is likely to be the greatest challenge throughout your period of study. This is true, irrespective of whether you are engaged in research mode or pursuing your masters in the taught course mode. In such a challenging situation the availability of a good support system would surely facilitate your stay at UTeM. With this regard, we at the Centre for Graduate Studies (CGS) strive to provide the necessary services that would help you throughout your stay at UTeM. It is my sincere hope that you will make full use of the facilities and services provided by the university.

As the newly appointed Dean of Centre for Graduate Studies, I've been entrusted with the responsibility of making sure that the centre is managed according to the set objectives and procedures. Our task at CGS is to make sure that activities which begin from application to processing of results and finally the graduation phase are carried out seamlessly. In order to achieve this objective, we are hoping to get cooperation from all of you.

Together, let us make your stay at UTeM a fruitful and an interesting one!

Regards,

Prof. Dr. Mohd Razali bin Muhamad
Dean of CGS

Patron

Prof. Dr. Ahmad Yusoff bin Hassan
Vice Chancellor

Advisor

Prof. Dr. Mohd Razali bin Muhamad
Dean

Editorial

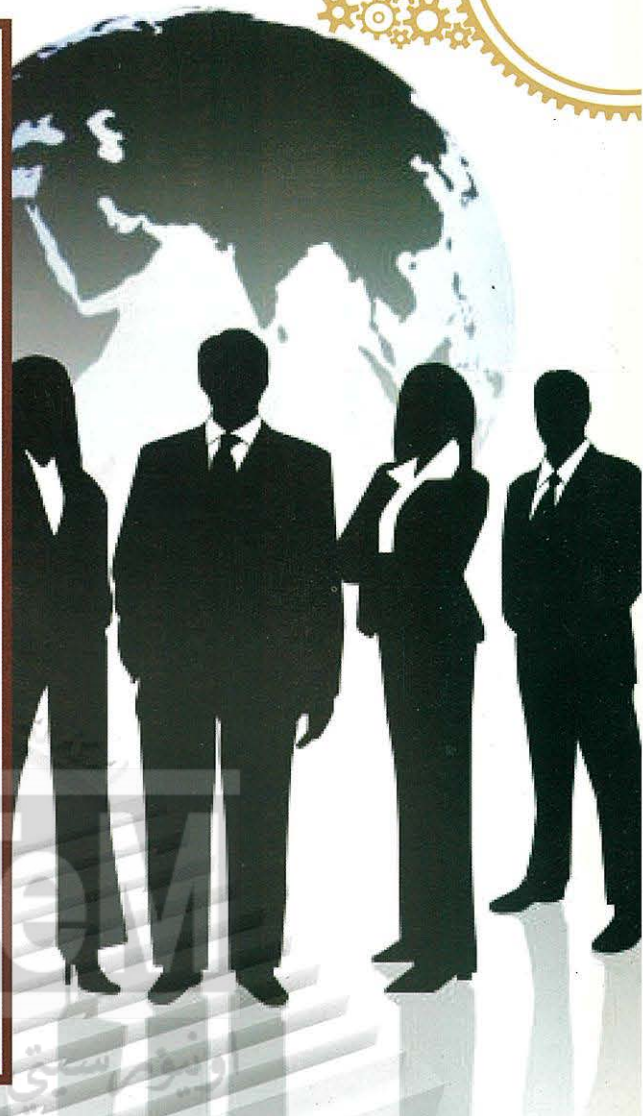
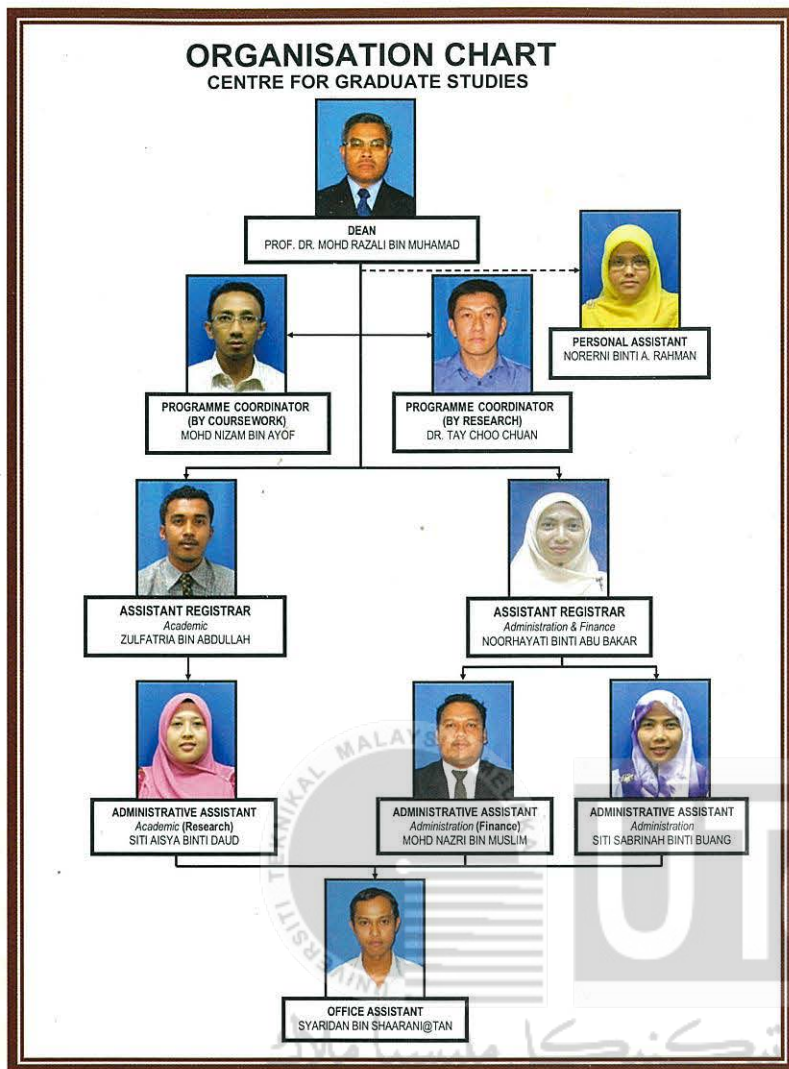
Editors

Dr. Tay Choo Chuan
Pn. Noorhayati binti Abu Bakar

Photographer

Members

En. Mohamad Nizam bin Ayof
En. Zulfatria bin Abdullah
Pn. Siti Aisya binti Daud
Pn. Siti Sabrinah binti Buang
En. Mohd Nazri bin Muslim
Pn. Norerni binti A. Rahman



Approval for FKEKK and FKP to Offer Master by Coursework Programmes

The Faculty of Electronic and Computer Engineering has received the approval from the Ministry of Higher Education to offer three master programmes by Coursework in Electronic Engineering (Telecommunication Systems), Electronic Engineering (Computer Engineering) and Electronic Engineering (Electronic System). However, beginning July 2009 FKEKK will only offer Master of Electronic Engineering (Telecommunication System) programme. The duration of the study is a minimum of 1½ years (3 semesters) and a maximum of 3 years (6 semesters).

The ministry has also approved the Faculty of Manufacturing Engineering to offer Master Programme by Coursework in Manufacturing Engineering (Manufacturing System Engineering), Manufacturing Engineering (Quality System Engineering), Manufacturing Engineering (Precision Engineering) and Manufacturing Engineering (Industrial Engineering) beginning July 2009. The duration of the study is a minimum of 1 year (2 semesters) and a maximum of 3 years (6 semesters).

These courses are opened to all potential local and international students who fulfill the University's admission requirements. These courses are offered to students in order to enhance their academic backgrounds with specialists' knowledge and skills in various fields.

Further information can be found at <http://www.utem.edu.my/pps>

New Appointment

Prof. Dr. Mohd Razali Bin Muhamad As New CGS's Dean
(Date of Appointment : 1 February 2009)



Dr. Mohd Razali Bin Muhamad was born in 1960 in Pulau Pinang, Malaysia. He obtained his B.Sc. in Production Engineering and Management and MSc in Materials Protection from Loughborough University of Technology. He completed his PhD at The University of Liverpool in 1996. Dr. Mohd Razali is currently a Professor and was the Dean of Faculty of Manufacturing Engineering from 1 November 2004 to 31 January 2009.

On 1 February 2009, he was appointed as the Dean of Centre for Graduate Studies. Dr. Mohd Razali was previously with USM for eighteen years.

His current research interests include concurrent engineering, cutting tools technology, design of manufacturing systems, design for manufacture and assembly and new product development. He had supervised 8 Masters and 2 PhD holders and currently has 4 Masters and 3 PhD students under his supervision. He is also active in publications of research and technical publications.

Besides his academic work in the university, Dr Mohd Razali has also been active in contributions to the public. He is serving as advisor to the Japan Malaysia Technical Institute (JMTI). In the area of consultancy, he has been involved with a few organizations such as Kulim Technology Park Corporation, Domain Solution Singapore, Dynacraft and Universiti Teknologi Petronas.

It is his mission to make CGS UTeM a competitive centre for potential applicants in offering quality and timely service to its clients.

Appointment of New Staff

The management of CGS would also like to take this opportunity to welcome and congratulate the following staff on their new appointment at CGS.



Dr. Tay Choo Chuan
Programme Coordinator (Research)
13 October 2008



Ms Noorhayati binti Abu Bakar
Assistant Registrar
02 April 2009



Mr Syaridan bin Shaarani @ Tan
Office Assistant
16 April 2009



Mr Mohd Nizam bin Ayof
Programme Coordinator (Coursework)
20 May 2009

Submitting a Thesis?

Preparation of thesis and dissertation is a complex and meticulous process. It involves numerous steps beginning with the submission of a research proposal and ending with the binding of the thesis and dissertation.

With proper planning and the aid of modern typing and printing technologies, preparation of thesis can be very satisfying and rewarding exercise and experience.

The Guideline for Preparation of Thesis, Report of Master Project and Dissertation is prepared by CGS to help graduate students of UTeM in the preparation and to ensure students thesis conforms to the Guidelines. **GET YOUR COPIES TODAY!!!!**

FAREWELL FROM CENTRE FOR GRADUATE STUDIES

End Of Term For Eng. Prof. Dr. Marizan Bin Sulaiman (Dean)



Effective 31 January 2009, Eng. Prof. Dr. Marizan Bin Sulaiman left CGS after completing his term as CGS's Dean. He served CGS as Dean since 1 November 2007. His contribution to CGS has been fantastic and he will always be remembered for his great team spirit and cheerful personality. All members of CGS would like to thank him for his support, his great leadership, guidance and encouragement to the supporting staff during his term at CGS. We wish him success in his career and life.

End Of Term For En. Shamsul Bahari Bin Azraai As Programme Coordinator (Coursework)



Effective 10 April 2009, En. Shamsul Bahari Bin Azraai left CGS after completing his term as Programme Coordinator (Coursework). He served in CGS as Program Coordinator for 2 years since 1 Mac 2007. During this period he was actively involved in organizing postgraduate students' activities and participated actively in promotional activities both locally and overseas. He was also the Editor of the CGS Newsletter. All members of CGS would like to thank him for his support and guidance to the supporting staffs during his term at CGS. We wish him success in his career and life.

The management of CGS would also like to take this opportunity to thank the following staff who has left CGS, for their contributions and services given while at CGS. We wish them success in their career and future undertakings.



Nor – Aliza binti Ibrahim
Assistant Registrar
(Administration)



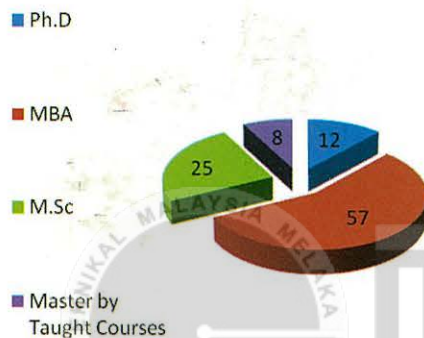
Abu Zar Bin Yashim
Office Assistant
(Administration)



PROGRAMMES OFFERED

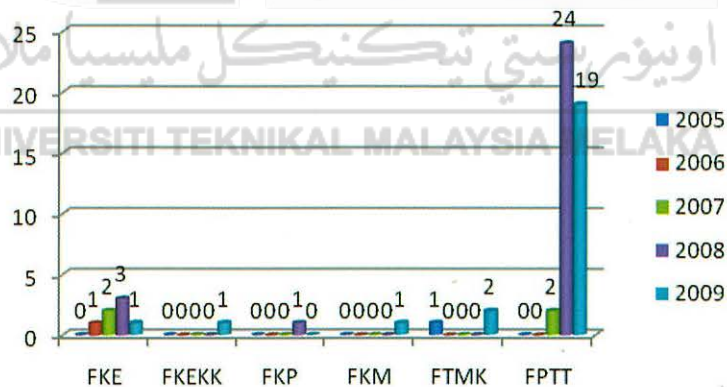
FACULTY	BY TAUGHT COURSES	BY RESEARCH	
	MASTER	MASTER	Ph.D
Electrical Engineering		√	√
Electronics & Computer Engineering	√	√	√
Manufacturing Engineering	√	√	√
Mechanical Engineering		√	√
Information Technology & Communications	√	√	√
Technology Management & Technopreneurship	√	√	√

STUDENT ENROLMENT (INTAKE II SESSION 2008/2009)



On the 22 of December 2008, 102 candidates were registered as graduate students. 25 students have enrolled in the MSc programme, 8 in the Master by Taught Courses, 12 in the PhD and 57 in the MBA programme. The CGS is glad to welcome all the graduate students.

NUMBER of STUDENT ENROLMENT from 2005 to 2009



NUMBER OF POSTGRADUATE STUDENTS AS AT MAC 2008/2009 (SEM II 2008/2009)

FACULTY	M.Sc.	Ph.D	MBA	MASTER BY TAUGH COURSE	TOTAL
FKE	20	3	-	-	23
FKEKK	22	2	-	-	24
FKM	20	1	-	-	21
FKP	35	3	-	-	38
FTMK	44	13	-	17	74
FPTT	13	24	57	-	94
TOTAL	154	46	57	17	274

NUMBER OF INTERNATIONAL STUDENTS AT UTEm AS AT MAC
(SEM II 2008/2009)

PROGRAMME	COUNTRY							TOTAL
	Indonesia	Cameroon	Pakistan	Bangladesh	Syria	Saudi Arabia	India	
Ph.D	6	-	-	-	-	1	-	7
M.Sc & MBA	17	1	1	2	1	-	4	26
TOTAL	23	1	1	2	1	1	4	33

LIST OF POSTGRADUATE STUDENTS GRADUATED IN ACADEMIC YEAR 2009

NO	NAME	FACULTY	PROGRAMME
1.	Abd. Samad bin Hassan Basari	FTMK	Ph.D
2.	Abd. Karim bin Mohammad	FTMK	Ph.D
3.	Siva Kumar S/O Subramaniam	FKEKK	M.Sc
4.	Eshah binti Mat	FPTT	M.Sc
5.	Imanurezeki Mohamad	FKM	M.Sc
6.	Muhammad Herman bin Jamaludin	FKE	M.Sc
7.	Tezar Mauludin Budiman	FPTT	MBA
8.	Nor Watee binti Hj. Rahman	FPTT	MBA
9.	Aziz bin Jaapar	FPTT	MBA
10.	Baharom bin Said	FPTT	MBA
11.	Muhammad Azam bin Ghazali	FPTT	MBA
12.	Mazidah binti Said	FPTT	MBA
13.	Ng Kok Ming	FPTT	MBA
14.	Zaini binti A. Karim	FPTT	MBA
15.	Lilian A/P Anthonysamy	FPTT	MBA
16.	Raju A/L Periasamy	FPTT	MBA
17.	Soong Chong Seng	FPTT	MBA
18.	Azizah binti Hj. Vaheed	FPTT	MBA
19.	Zalinawati binti Othman	FPTT	MBA
20.	Rashdan bin Baharom	FPTT	MBA
21.	Mohd Hafizam bin Mustafa	FPTT	MBA
22.	Shahrul Niza bin Samsudin	FPTT	MBA
23.	Zulkarnain bin Othman	FPTT	MBA

PROMOTIONAL ACTIVITIES

Promotional Visit To POU & PSP
7 - 8 May 2009



Postgraduate Promotional Talk
28 April 2009
UTeM



MEETES 2009
15 – 18 March 2009
Jeddah, Saudi Arabia



MIDDLE EAST EDUCATION, TRAINING, EQUIPMENT AND SOLUTIONS (MEETES) 2009

Jeddah, Saudi Arabia, 15 March – 18 March 2009

CGS UTeM had participated in Middle East Education, Training, Equipment and Solutions (MEETES) 2009 which was held on 15 March to 18 March 2009 in Jeddah, Saudi Arabia. MEETES features exhibitors from around the globe with a range of exhibits such as undergraduate and postgraduate courses, distance learning, universities, polytechnics, private schools, language schools and centres.

Major institutions from Canada, Cyprus, Malaysia, UAE, UK, USA, Ireland and Germany alongside Arab Saudi educational institutions participated at the show.



The delegation from UTeM was led by the Dean of CGS, Prof. Dr. Mohd. Razali bin Muhamad, together with Prof. Dr. Salleh bin Yahya, Dean of Faculty off Technology Management and Technopreneurship; Engr. Imran bin Ibrahim, Deputy Dean of Faculty of Electronic and Computer Engineering; Dr. Burairah bin Hussin, Deputy Dean of Faculty of Information and Communication Technology; and Mr. Zulfatria bin Abdullah, Assistant Registrar of CGS UTeM.

The UTeM booth had received an encouraging number of visitors and many have expressed interest in our postgraduate programs. Our presence at MEETES 09 has definitely provided the necessary information on our university to the Saudi Arabia public.

MINISTRY OF HIGHER EDUCATION EXHIBITION (MOHEX) 2009

Pekan Baru and Padang, Indonesia, 17 February – 23 February 2009

MOHEX 2009 in Pekan Baru and Padang, Indonesia was one of the Centre for Graduate Studies (CGS) Universiti Teknikal Malaysia Melaka (UTeM) targeted promotional programmes in 2009.

CGS was represented by Mr. Shamsul Bahari bin Azraai, Programme Co-ordinator of CGS and Mr. Zulfatria bin Abdullah, Assistant Registrar (Academic) of CGS. There were also participations from other local institutions.

The first location of the exhibition was Pangeran Hotel in Pekan Baru, where CGS had opened a booth for two days from 18 to 19 February 2009. During the 2 days, the CGS booth had entertained inquires from about 118 visitors which are 60% of them enquired about Postgraduate studies.

The next location was in Pangeran Hotel in Padang from 21 to 22 February 2009. Here, CGS entertained about 102 visitors; 44% of them enquired about postgraduate studies and 56% enquired about undergraduate programs in UTeM.



MOHEX 2009
17 – 23 February 2009
Pekan Baru & Padang





ACTIVITIES WITH STUDENTS

Graduate Discourse Programme
30 October 2008
CGS

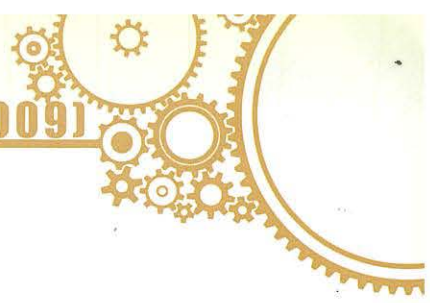


Orientation Ceremony With Vice
Chancellor For Postgraduate Students
26 July 2008 Mahkota Hotel



Postgraduate Research Seminar
17 - 18 October 2008
Le Paris International

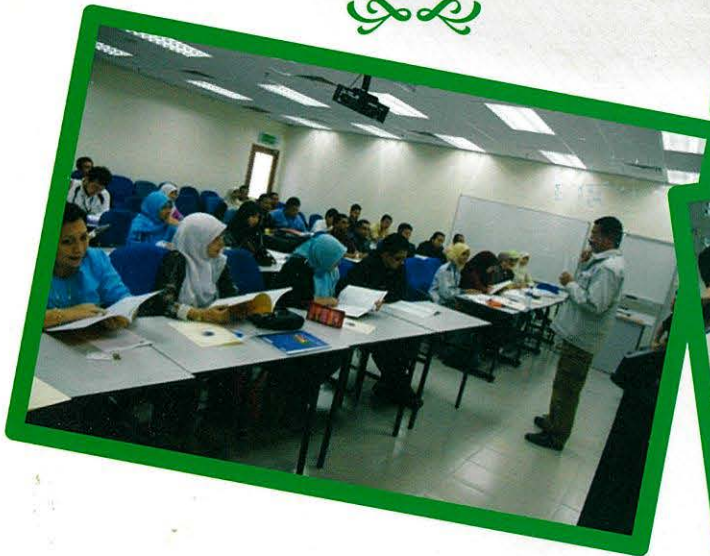




Academic Visit To
UMT & UMP
30 November - 1 December 2008



New Postgraduates Registration
Semester II 2008/2009
CGS



WORKSHOPS



Workshop On 2008 Annual Planning & Revision Of CGS ISO Documents

30 January - 1 February 2009

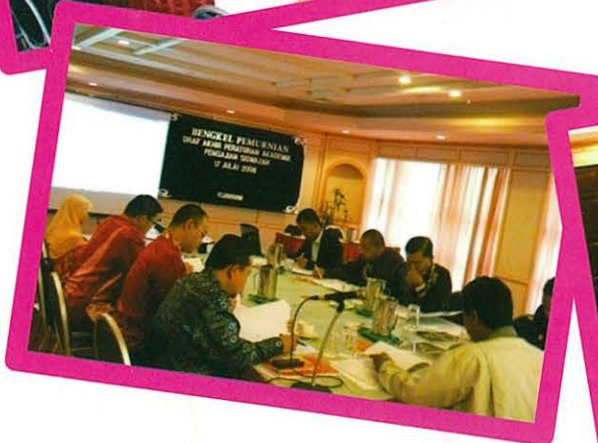
Bella Vista Hotel



Workshop On Final Draft Of Postgraduate Policies & Procedures

17 July 2008

Bayview Hotel



VIVA VOCE EXAMINATION

October 2008

Monday

20 ESHAH BTE MAT
(MSc / FPTT)

'The Recruitment and Selection Process for The Best Marketing Personnel in The Technical organization'

Chairperson:
Prof. Dr Hj. Taib bin Hj. Dora
(Dean of PBPI UTeM)

Internal Examiner:
Dato' Prof. Dr. Abu Bakar bin Mohd Yusof
(FPTT UTeM)

External Examiner:
Dr. Rosli bin Salleh
(Universiti Putra Malaysia)

November 2008

Monday

12 SIVAKUMAR A/L SUBRAMANIAM

'Real Time Production Monitoring System'

Chairperson:
Engr. Prof. Dr. Marizan bin Sulaiman (Dean of CGS UTeM)

Internal Examiner:
Prof. Dr. Razali bin Ayob
(FKM UTeM)

External Examiner:
Y.Bhg Dato' Prof. Dr. Hj. Mortaza bin Mohamed
TNCA HEPA
(Universiti Malaysia Kelantan)

January 2009

Tuesday

13 AL-MANSOR BIN ABU SAID

'An Epirical Investigation of Entrapreneurial Behavior Within Manufacturing Sectors'

Chairperson:
Engr. Prof. Dr. Marizan bin Sulaiman (Dean of CGS UTeM)

Internal Examiner:
Prof. Dr. Salleh bin Yahya
(Dean of FPTT UTeM)

External Examiner:
Assoc. Prof. Dr. Mohamed Dahlan bin Ibrahim
(Universiti Malaysia Kelantan)

Friday

23 ABD. SAMAD HASAN BASARI
(PhD / FTMK)

' Computer- Based Problem Recognition And Delay Time Data Collection Techniques For Maintenance Modelling In The Absence Of Data '

Chairperson:
Engr. Prof. Dr. Marizan bin Sulaiman (Dean of CGS UTeM)

Internal Examiners:
Prof. Dr. Mokhtar Mohd Yusof
(Adjunct Prof. FTMK UTeM)

Dr. Burairah bin Husin
(FTMK UTeM)

External Examiner:
Assoc. Prof. Dr. Md Nasir bin Sulaiman
(Universiti Putra Malaysia)

February 2009

Monday

23 ABDUL KARIM MOHAMAD
(PhD / FTMK)

'Enabling Collaborative Organization Learning (OL) Environment Through Email System : The Socio-Technical Framework Approach'

Chairperson:
Prof. Dr. Mohd Razali bin Muhamad (Dean of CGS UTeM)

Internal Examiners:
Dr. Burairah bin Husin
(FTMK UTeM)

Dr. Sazilah bte Salam
(FTMK UTeM)

External Examiner:
Assoc. Prof. Dr. Wan Rozaini bte Shaik Osman
(Universiti Utara Malaysia)

April 2009

Friday

10 MUHAMMAD HERMAN BIN JAMALUDDIN
(MSc / FKE)

'Vision Guided Manipulator For Optimal Dynamic Performance'

Chairperson:
Prof. Dr. Mohd Razali bin Muhamad (Dean of CGS UTeM)

Internal Examiners:
Dato' Prof. Dr. Mohd Ruddin bin Ab Ghani
(FKE UTeM)

Assoc. Prof. Dr. Zulkiflie bin Ibrahim
(FKE UTeM)

External Examiner:
Assoc. Prof. Dr. Mohd Noh bin Karsiti
(Universiti Teknologi Petronas)

Friday

28 ZAINAL ARIFFIN SELAMAT

'The Effect of Cutting Fluid Pressure On Cutting Performance'

Chairperson:
Prof. Dr. Abu bin Abdullah (FKP UTeM)

Internal Examiner:
Dr. Azizah bte Shaaban
(FKP UTeM)

External Examiner:
Dr. Hj. Wan Mansor Wan Muhamad
(Universiti Kuala Lumpur)

May 2009

Tuesday

05

SOBAH A/P PERIASAMY
(MSc / FTMK)

**'The Enhanced Model
For Software Project
Estimation'**

Chairperson:
Prof. Dr. Mohd Razali bin
Muhamad (Dean of CGS UTeM)

Internal Examiner:
Dr. Burairah bin Hussin
(FTMK UTeM)

External Examiner:
Assoc. Prof. Dr. Habibollah bin
Haron
(Universiti Teknologi Malaysia)

Monday

25

ROHANA BTE ABDULLAH
(MSc / FKP)

**'Man To Machine
Technique For Labor
Productivity
Improvement'**

Chairperson:
Prof. Dr. Md Radzai bin Said
(FKM UTeM)

Internal Examiners:
Assoc. Prof. Dr. Adi Saptari
(FKP UTeM)

Assoc. Prof. Dr. Mohamed
Khaled Omar
(FKP UTeM)

External Examiner:
Assoc. Prof. Dr. Rosnah bte
Mohd Yusuff
(Universiti Putra Malaysia)

June 2009

Monday

22

SYED MOHAMAD SHAZALI BIN
SYED ABDUL HAMID

(MSc / FKE)

**'Vision-Based Multi Sensor
Feedback System For Robot
System With Artificial
Intelligent'**

Chairperson:
Prof. Dr. Mohd Razali bin
Muhamad (Dean of CGS UTeM)

Internal Examiner:
Dr. Ismadi bin Bugis
(FKE UTeM)

External Examiner:
Assoc. Prof. Dr. Mohd Noh bin
Karsiti
(Universiti Teknologi Petronas)

UTeM

اونيورسيٲي ٲيكنيٲ

**The 22th MEETING OF THE
COUNCIL OF GRADUATE
STUDIES**

The 22th meeting of the Council of Graduate Studies Deans was held from 22 – 24 Mei 2009 at the Renaissance Hotel, Kota Bharu, Kelantan. CGS was represented by Mr. Mohamad Nizam bin Ayof, Programme Co-ordinator (Coursework) and Mr. Zulfatria bin Abdullah, Assistant Registrar (Academic). This meeting was jointly organized by Universiti Teknologi MARA (UiTM) and Universiti Putra Malaysia (UPM) as the secretariat. The meeting discussed issues related to the management of graduate schools / institutes.

MAINTENANCE MODELLING TOOLS WITH SPECIAL REFERENCE TO INCOMPLETE DATA

ABD. SAMAD BIN HASAN BASARI

Ph.D in Information Technology & Communication

The problem of incomplete maintenance data, the knowledge on how to analyse the data and represent the result in a proper and understandable way are the major difficulty faces by many maintenance engineers during identification and definition of the real maintenance problem. The situation is more difficult and time consuming without the assistance of operation research (OR) experts. Other related problem that has also been addressed is how well experts estimate the delay time for maintenance modelling, which as consequences either overestimate or underestimate. If these problems could not be solved, the condition causes a wrong maintenance decision and may lead to unforeseen consequences. This research proposes a tool that enhances snapshot model for maintenance problem recognition in order to easily assist maintenance engineers during identification and definition of the real maintenance problem. The proposed tool is a hybrid of failure mode, effect and criticality analysis (FMECA) with decision analysis embedded into the current snapshot model and implemented in computers environment. This tool aims is ensure and enable maintenance engineers to conduct snapshot modelling with little or without the help of OR experts to facilitate the maintenance problem recognition process. An information technology (IT) tool that improves the accuracy of the delay time data estimates has been also proposed as an enhancement of the subjective survey method. These tools have been tested into Palm Oil Mill (POM) plant machines from three different companies. The result of this particular part of this research shows that the users need more features and less time to facilitate them during identification and definition of the real maintenance problem. The developed tool also satisfies the users in term of ease of use and user friendliness but need a further investigation due to some limitation. The limitation includes the need to enhance the processing speed when building the snapshot model, the accuracy of the result and the decision support technique. For the case of delay time estimates, even though the result of enhancement of the subjective survey method is still varying but the applicability of the method is proven more acceptable when it is compared to the current method. This method also improves the elicitation and calibration process but need a further enhancement. The enhancement includes the need to reduce the involvement of experts during elicitation and calibration process, increase the performance when retrieving the information and improve its consistency.

Thesis Abstract 2

SYNTHESIS AND CHARACTERISATION OF MICROPOROUS CARBON ADSORBENTS FROM OIL PALM SHELL

IMANUREZEKI MOHAMAD
M.Sc in Mechanical Engineering

The carbon adsorbent is paramount important in separation gaseous components, and adsorption and desorption of gaseous. Carbon adsorbents hold a strong market position due to their unique properties and low cost for gas adsorption and desorption applications. Carbon adsorbents can be prepared from any raw materials that contain high carbon contents, cheap, availability, high stability, high adsorptive capacity and regenerative characteristics due to the finer pore structure such as coal and wood. The preparations of carbon adsorbents consist of two process; activation and carbonization by physical process. The preparation step is important as it will effect the development of pore size, pore volume, and surface area which will further affect the effectiveness of the carbon adsorbents on adsorption and desorption process. The oil palm shells are selected as the main raw carbon material for present study. The carbon adsorbents produced from oil palm shell is then compared with potential carbon adsorbents from coconut shells and commercial activated carbon. In addition, LDPE plastic bags are mixed with carbon adsorbents to investigate the effectiveness in adsorption and desorption of gas. Carefully investigations have been made from the handling and preparation step, to activation and carbonization process especially in terms of temperature, pressure, and time controlled. Two types of carbon adsorbent test bed name as Test Bed 1 and Test Bed 2 is designed and developed to determine the adsorption and desorption capacity of gas such as nitrogen, methane and LPG that used carbon adsorbents as medium. This study focused on the applications gas storage systems, and particularly to systems of such type utilizing a carbon adsorbent as a storage medium. To achieve the target of adsorption and desorption efficiency of carbon adsorbents, the gravimetric tank storage model is developed and tested under given flow rate of LPG and methane. Preliminary analysis results determined that the carbon adsorbents successfully work as adsorbate in adsorption and desorption of nitrogen. It was also investigate that the specific surface area for carbon adsorbents, temperature, and time involved is an important factor for both adsorption and desorption process. It is evaluated that the use of carbon adsorbents in LPG and methane storage system is great application and expected to have market potential in future as it reduced the size of tank but increased the amount of LPG and methane stored.

REAL TIME PRODUCTION MONITORING SYSTEM

SIVA KUMAR S/O SUBRAMANIAM

M.Sc in Electronics Engineering

A production monitoring system is a system that is used in real time to record production line problems. It is constructed using programmable logic controller and sensors to collect data from production lines. The real time production monitoring system is designed to collect data automatically and display the data on display boards for the workers to see. Devices in the real time production monitoring system are capable of working as individual units or working together with multiple terminal links such as automated machineries, robotic systems and manual process line. The data will also be relayed to the management for prompt action.

Data on production time, non-production time, targets, rejection rates, planned stops, and cycle times will be displayed as well as relayed to the management. Unadulterated data collected from the real time production monitoring system should be relayed to the management without human intervention. Such data would then be interpreted accordingly in order to identify the faults at production level and to spur corrective measures from the management. It is also preferable to link the data collected to a computer system. With the help of this real time production monitoring system the management will be able to monitor both the workers and machine performance. Display of data can also prompt instant action from both workers and line supervisors.

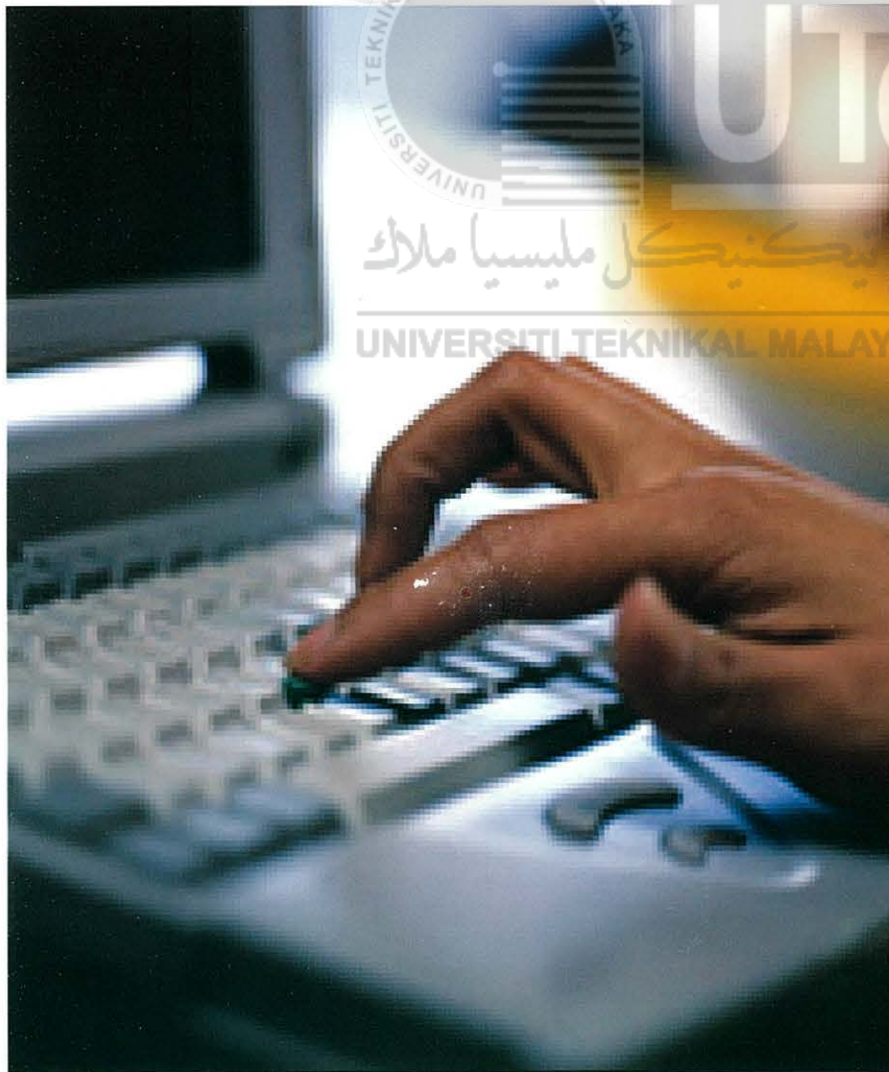
The data collected should be in line with the requirements of overall equipment effectiveness. Overall equipment effectiveness is the tool for improving efficiency. Efficiency of production lines enables better yield and utilization of the available resources. The real time production monitoring system together with overall equipment effectiveness will help companies to generate higher revenue.

FINANCIAL ASSISTANCE

FINANCIAL ASSISTANCE	QUALIFICATIONS	CONTACT INFORMATION
I) Fellowship Scheme (FRGS)	<ul style="list-style-type: none"> Malaysian or international student. Full time studies in Master or PhD programme by research A Bachelor's degree with honours or its equivalent, or a Master's degree. Pass in Bahasa Malaysia or credit in MCE/SPM or Certificate in Bahasa Malaysia from HSC/STPM No other job or holding scholarship or other financial assistance Good Academic result 	<p>Centre for Graduate Studies Universiti Teknikal Malaysia Melaka Locked Bag 1752, 76109 Durian Tunggal Melaka, MALAYSIA</p> <p>Tel: 06-233 3375/2340 Fax: 06-233 3369 Email: pps@utem.edu.my</p>
II) National Science Fellowship (NSF) Scholarship - MOSTI	<ul style="list-style-type: none"> Malaysian citizen A Bachelor's degree with honours or its equivalent, or a Master's degree. Must not exceed 30 years of age (for Masters) and 35 years of age (for PhD) on application date No other job or holding scholarship or other financial assistance 	<p>Online application can be made through the website http://ehcd.mosti.gov.my/nsf1.php</p>
III) University Postgraduate Research Scholarship Scheme (PGD)	<ul style="list-style-type: none"> Malaysian citizen Good Academic result Full time studies in Master or PhD programme by research in science and technology research areas No other job or holding scholarship or other financial assistance Must not exceed 30 years of age (for Masters) and 35 years of age (for PhD) on application date 	<p>Centre for Graduate Studies Universiti Teknikal Malaysia Melaka Locked Bag 1752, 76109 Durian Tunggal Melaka, MALAYSIA</p> <p>Tel: 06-233 3375/2340 Fax: 06-233 3369 Email: pps@utem.edu.my</p>
IV) PAKEJ RANGSANGAN EKONOMI KEDUA (BAJET MINI 2009) MELALUI KEMENTERIAN PENGAJIAN TINGGI MALAYSIA	<ul style="list-style-type: none"> Warganegara Malaysia Pelajar telah menerima surat tawaran dan mendaftar sebagai pelajar Sarjana dan Ph.D Calon-calun yang mengikuti pengajian sepenuh masa sahaja Tidak mempunyai pekerjaan tetap atau berpendapatan tetap atau diberhentikan pekerjaan sebelum dan sepanjang tempoh pengajian Umur tidak melebihi 35 tahun bagi calon peringkat Sarjana dan 43 tahun bagi peringkat Ph.D pada tarikh memulakan pengajian Mempunyai kelayakan Ijazah Sarjana Muda sekurang-kurangnya CGPA 2.75 atau setaraf dengannya bagi pengajian peringkat Sarjana dan berkelayakan Sarjana yang baik bagi pengajian peringkat Ph.D. Bagi calon-calun yang mempunyai kelayakan CGPA Sarjana Muda di bawah 2.75 atau setaraf, pengalaman kerja dalam bidang yang berkaitan 	<p>Permohonan boleh dibuat terus ke Kementerian Pengajian Tinggi secara "online" atau dengan muat turun borang permohonan yang boleh didapati melalui laman web www.mohe.gov.my</p> <p>Pemohon perlu mengemukakan bukti bahawa beliau telah diterima masuk dan mendaftar sebagai dokumen sokongan untuk tujuan ini. Dokumendokumen tersebut boleh dikemukakan terus ke alamat berikut:</p> <p>KETUA SETIAUSAHA KEMENTERIAN PENGAJIAN TINGGI MALAYSIA BAHAGIAN BIASISWA ARAS 4, BLOK 1, MENARA PjH, PRESINT 2, PUSAT PENTADBIRAN KERAJAAN PERSEKUTUAN 62100 PUTRAJAYA (u.p: Tajaan Khas Bajet Mini 2009)</p>



FINANCIAL ASSISTANCE	QUALIFICATIONS	CONTACT INFORMATION
	<p>akan dipertimbangkan berdasarkan sistem "point" yang akan ditentukan oleh Kementerian</p> <ul style="list-style-type: none"> • Pelajar tidak menerima sebarang bentuk penajaan dari lain-lain penaja kecuali pinjaman pelajaran atau Elaun Pembantu Penyelidik Siswazah (<i>Graduate Research Assistant</i>) • Tiada ikatan perjanjian dengan pihak-pihak lain • Tiada ikatan kontrak dikenakan dan pembiayaan. Ini tidak bermaksud untuk berkhidmat dengan Kerajaan selepas tamat pengajian; dan • Pembiayaan akan dibuat pada setiap semester tertakluk kepada pelajar mengemukakan bukti telah mendaftar untuk meneruskan pengajian sehingga tempoh maksimum penajaan. Pelajar yang gagal dan ditamatkan pengajian lebih awal iaitu sebelum tempoh maksimum, pembiayaan akan turut ditamatkan dan tiada perlanjutan akan dibiayai. 	<p>Sebarang pertanyaan dan maklumat lanjut mengenai program ini boleh terus dikemukakan kepada alamat di atas atau telefon 03-88844600 atau faksimili 03-88844701 atau email bajetmini@mohe.gov.my</p>



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CENTRE FOR GRADUATE STUDIES ACADEMIC CALENDER SEMESTER I SESSION 2009/2010

SEMESTER I (JULY- DECEMBER)	
Semester I (25 Weeks)	6 July 2009 – 27 December 2009
Registration and Fees Payment for New and Senior Students	27 June 2009 – 5 July 2009
Late Registration with penalty for New and Senior Students	6 July – 17 July 2009
Last Day to Add/Drop Subjects	17 July 2009
Semester I Lectures(Part One) (6 Weeks)	6 July 2009 – 14 August 2009
Semester I Mid Term Break (1 Week)	15 August 2009 – 23 August 2009
Semester I Lectures (Part II) (4 Weeks)	24 August 2009 – 18 September 2009
Special Leave (1 Week)	19 September 2009 – 27 September 2009
Remittance of Students Progress Report Form (UTeM.29/1/16) for Research Mode Students	7 September 2009
Last Day to Defer (TD) the Subjects	25 September 2009
Semester I Lectures (Part III) (4 Weeks)	28 September 2009 – 23 October 2009
Study Leave (1 Week)	24 October 2009 – 1 November 2009
Last Day to submit the Progress Report Form (UTeM .29/1/16) for Research Mode Students	23 October 2009
Semester I Examination (3 Weeks)	2 November 2009 –22 November 2009
Semester I Final Break (5 Weeks)	23 November 2009 – 27 December 2009
Graduate Studies Committee on Examination/ Examination Result Meeting (Semester I Session 2009/2010 Examination)	30 November 2009*
Graduate Studies Standing Committee on Examination /Examination Result Meeting (Semester I Session 2009/2010 Examination)	7 December 2009*
Senate on Examination Result Meeting (Semester I Session 2009/2010 Examination)	21 December 2009*
Deferment (TP)	
• Unregistered Students	3 August 2009
• Registered Students	28 September 2009

Notes:

- (I) Students are required to register on each semester throughout their study. Fail to do so before 17th July 2009, the candidature of the candidates will be terminated.
- (II) * Subject to change
- (III) Malacca State Holidays 2009
 - Awal Ramadan (22 August 2009)
 - National Day (31 August 2009)
 - Hari Raya Aidilfitri (20 & 21 September 2009)
 - Melaka Governor's Birthday (10 October 2009)
 - Deepavali (17 October 2009)
 - Hari Raya Aidiladha (27 November 2009)
 - Awal Muharram (18 December 2009)
 - Christmas Day (25 December 2009)

(When a holiday falls on a weekend, the following day become a public holiday)