CENTRE FOR GRADUATE STUDIES

TOWARDS MS ISO 9001:2000

STRIVE FOR EXCELLENCE

UTeM STARTS OFFERING

MASTER by TAUGHT COURSES

The Faculty of Information and Communication Technology, has moved one step ahead to offer a Master by Taught Courses in Computer Science (Internetworking Technology) and Computer Science (Software Engineering and Intelligence) starting in July 2008.

These courses will be opened to all potential local and international students that fulfill the University's admission requirements. Furthermore, this courses enable everyone to be more competent in managing software and intelligence development projects, and controlling internetworking services within organizations.

The courses offered are capable to groom ICT experts required by the Multimedia Super Corridor (MSC) which focus in the area of communication infrastructure development, computer networking, system administration & management and client server software developers.

Further information can be sited on http:// www.utem.edu.my/pps or http://ftmk.utem.edu.my.

Centre for Graduate Studies

To become a one stop and leading centre for all information that relates to the graduate study programme at this university

Vice Chancellor

Prof. Dr. Ahmad Yusoff bin Hassan

Assalammualaikum w.b.t,

First and foremost, I would like to express my gratitude to Allah the Almighty. I would like to congratulate the Center for Graduate Studies on the first edition of News Letter for the year 2008.

The Center was established in 2004 with the main responsibility to provide opportunities to graduate students to gain advanced knowledge and improve research capabilities in their fields of interest. Since then, the Center has involved in numerous academic exhibitions and seminars to promote Postgraduate Programs being offered by the University. As a result, the enrolment of graduate students is on the rise. Currently, the Center handles more than 258 students enrolling in various Master and PhD programs with 31 of them are foreigners. The graduate programs are being conducted by five faculties and one institute.

The University has taken another giant step by offering Master Programs by Taught Courses. The Faculty of Information and Communication Technology begins offering the taught program in July 2008 by conducting two courses. The faculties of engineering will follow suit soon in December 2008. The University hopes to see many different modes of graduate programs being offered by faculties and institute that include Research Mode, Taught Courses Mode and Executive. This approach is believed to be able to attract more potential students possessing working experience due to its flexibility in delivery methods.

Finally, with the full commitment and effort from the Center in close collaboration with Faculties and Institute, I am fully confident that the postgraduate programs at the University will become one of the main choices for local and foreign students to further their studies.

Deputy Vice Chancellor
(Academics & International)

Dato' Prof. Dr. Abu bin Abdullah

Assalammualaikum w.b.t,

The principle objective of the establishment of the Center for Graduate Studies in 2004 is to provide opportunities to highly motivated individuals who are interested in pursuing advanced knowledge through postgraduate studies. Ever since the establishment, the Center has put a lot of efforts to promote the various postgraduate programs being conducted at the University.

The University would like to increase the enrolment of graduate students by offering more postgraduate programs through five faculties and one institute. The latest effort isthrough Master Programs by Taught Courses. The Faculty of Information and Communication Technology has responded by offering the Master of Computer Science programs in the fields of Internetworking Technology and Software Engineering & Intelligence commencing in July 2008. I hope to see the engineering faculties will respond soon as the students' enrolment will be boosted by offering taught courses. The postgraduate programs at UTeM are practical biased, industry focused and modular approach to provide flexibility and opportunity to the working andexperienced individuals to undergo formal graduate studies as part of life long learning. All programs are being conducted by qualified and experienced academics from different fields of interest.

Lastly, I would like to congratulate the Center for the News Letter hoping that it can be used to highlight the various aspects and activities of the postgraduate programs at the University.

Deputy Vice Chancellor
(Research & Innovation)

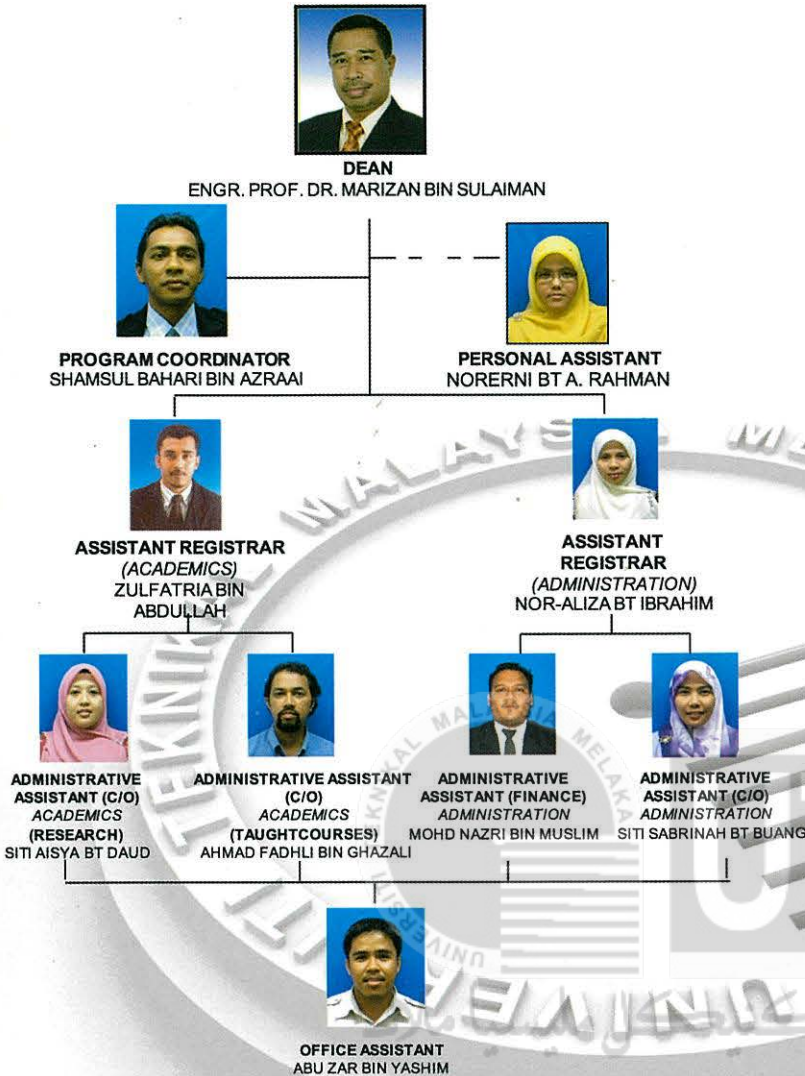**Datuk Assoc. Prof. Dr. Abu Bakar bin Mohamad Diah**

Assalammualaikum w.b.t,

The establishment of the Center for Graduate Studies is to provide opportunities to individuals who are interested in research, development and innovation. Ever since the establishment, the Center has put a lot of efforts to promote research and development activities through the formal postgraduate programs.

The University has increased research capabilities by improving infrastructure and offering research assistantships to qualified students to do Masters or Ph. D studies. Therefore, I hope that postgraduate students who involve in research and development would be able to cooperate closely with faculties and institute to achieve the objectives of the University.

Lastly, I would like to congratulate the Center for the NewsLetter hoping that it can be used to highlight the various aspects of the postgraduate programs at the University.

ORGANIZATIONAL CHART 2008

DEAN
ENGR. PROF. DR. MARIZAN BIN SULAIMAN

PROGRAM COORDINATOR
SHAMSUL BAHARI BIN AZRAAI

PERSONAL ASSISTANT
NORERNI BT A. RAHMAN

ASSISTANT REGISTRAR
(ACADEMICS)
ZULFATRIA BIN ABDULLAH

ASSISTANT REGISTRAR
(ADMINISTRATION)
NOR-ALIZA BT IBRAHIM

ADMINISTRATIVE ASSISTANT (C/O)
ACADEMICS (RESEARCH)
SITI AISYA BT DAUD

ADMINISTRATIVE ASSISTANT (C/O)
ACADEMICS (TAUGHTCOURSES)
AHMAD FADHLI BIN GHAZALI

ADMINISTRATIVE ASSISTANT (FINANCE)
ADMINISTRATION
MOHD NAZRI BIN MUSLIM

ADMINISTRATIVE ASSISTANT (C/O)
ADMINISTRATION
SITI SABRINAH BT BUANG

OFFICE ASSISTANT
ABU ZAR BIN YASHIM

CONTENTS

GREETINGS FROM THE EDITORS

Assalamualaikum.

Welcome to the Centre for Graduate Studies (Pusat Pengajian Siswazah, PPS), UTeM.

With great pleasure I would like to congratulate all the new graduate students on your successful admissions to UTeM. You will find UTeM is an interesting place for pursuing graduate studies and conducting multidisciplinary research works. Our pledge is to provide graduate students with quality education through conducive learning environment.

In this issue, we shall update you with activities that have taken place around PPS and the Academic Calendar for Semester I 2008/2009. We also present abstracts of 3 selected theses for your kind perusal.

I take this opportunity to congratulate all graduate students who will be conferred with Masters during the upcoming annual UTeM 4th Convocation in August 2008.

We at PPS hopes this newsletter will furnish you with handy and yet valuable information. Once again, congratulations and best wishes!
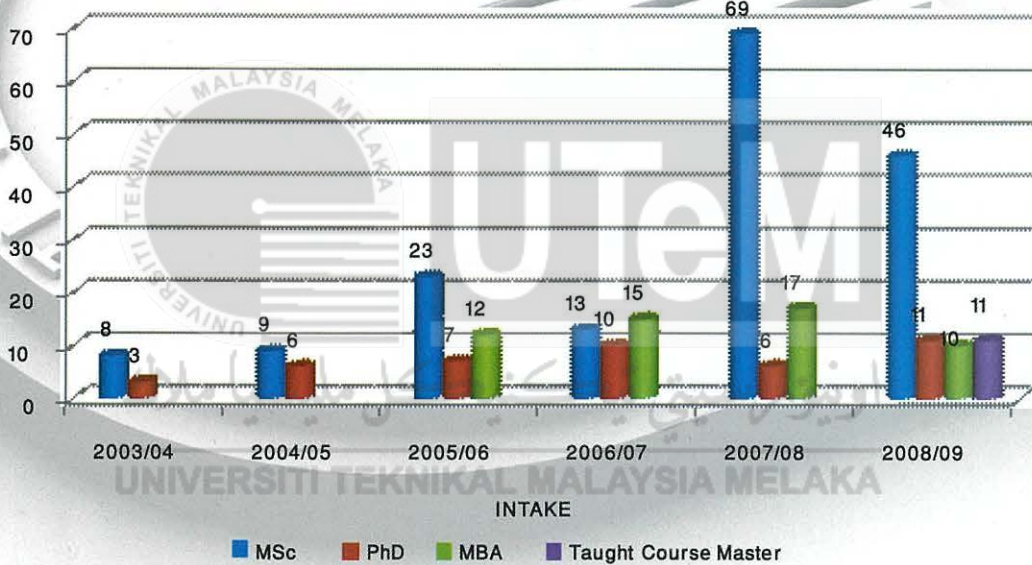
STRIVE FOR EXCELLENCE

Regards.

Engr. Prof. Dr. Marizan bin Sulaiman (DEAN)

Engr. Shamsul Bahari bin Azraai
(Program Coordinator)

PROGRAMS OFFERED

Faculty	By Taught Courses	By Research	
	Master	Master	Ph.D
Electrical Engineering		/	/
Electronics & Computer Engineering		/	/
Manufacturing Engineering		/	/
Mechanical Engineering		/	/
Information Technology & Communications	/	/	/
Institute of Technology Management & Entrepreneurship	/	/	/

STUDENTS' ENROLMENT

Legend: MSc, PhD, MBA, Taught Course Master

LIST OF GRADUATES

Legend: 2005, 2006, 2007, 2008

4
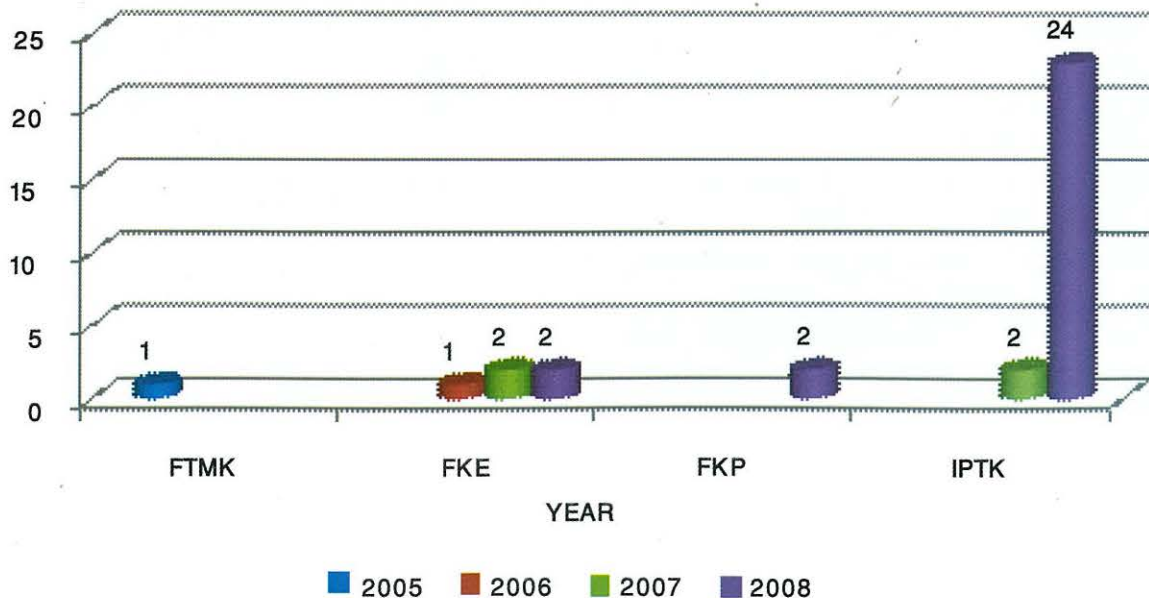
NUMBER OF POSTGRADUATE STUDENTS AT UTeM IN 2008

Faculty	M.Sc.	PhD.	MBA	TAUGHT COURSES MASTER	Total
FKE	22	3			24
FKEKK	21	1			22
FKM	16				16
FKP	31	4			35
FTMK	30	12		11	53
IPTK	15	20	73		98
					258

Program				Total
M.Sc.	MBA	TAUGHT COURSES	PhD.	
135	73	11	39	258

NO. OF INTERNATIONAL STUDENTS

PROGRAMS	NO. OF STUDENTS	COUNTRY					
		INDONESIA	IRAN	PAKISTAN	INDIA	BANGLADESH	SAUDI ARABIA
PhD.	8	5	1	1			1
M.Sc.	15	13			1		
MBA	8	6		1	1	1	
TOTAL	31	24	1	2	2	1	1

LIST OF POSTGRADUATE STUDENS GRADUATED IN ACADEMIC YEAR 2008

NO.	NAME	FACULTY	PROGRAM
1.	Hairul Nizam bin Mohd Shah	FKE	MSc. in Electrical Engineering
2.	Mohd Yuhazri bin Yaakob	FKP	MSc in Manufacturing Engineering
3.	Soo Wai Lian	FKE	MSc. in Electrical Engineering
4.	Hasbullah bin Ashari	FKP	PhD in Manufacturing Engineering
5.	Noor Faiezah bte Yaakup	IPTK	MBA
6.	Hasan bin Saleh	IPTK	MBA
7.	Sa'odah bt Abu Noh	IPTK	MBA
8.	Noor Akmal bt Abdul Wahab	IPTK	MBA
9.	Nor Azah bt Abdul Aziz	IPTK	MBA
10.	Nor Azizah be Hj. Sadar Mohamad	IPTK	MBA
11.	Rose Hakimah bte Mohd Raus	IPTK	MBA
12.	Norhafizah bt Mohamed Nor	IPTK	MBA
13.	Sek Sock Hoon	IPTK	MBA
14.	Deenoo Aizad Abadi bin Md. Noh	IPTK	MBA
15.	Khairul Nizam bin Ismail	IPTK	MBA
16.	Ng Sze Fern	IPTK	MBA
17.	Lai Nai Yeen Gavin	IPTK	MBA
18.	Mansor bin Md. Yusof	IPTK	MBA
19.	Mohd Zamri bin Abu Bakar	IPTK	MBA
20.	Fadzlin bt Amzah	IPTK	MBA
21.	Mohd Sufian bin Abd. Kadir	IPTK	MBA
22.	Haryaty bt Hamzah	IPTK	MBA
23.	Ruziah bt Ali	IPTK	MBA
24.	Khairul Niza bin Yahya	IPTK	MBA
25.	Juan Rizal bin Sa'ari	IPTK	MBA
26.	Nurul Aini bt Md. Rais	IPTK	MBA
27.	Zulfiqar Ali Leghar	IPTK	MBA
28.	Anuar bin Senin @ Abdul Rahim	IPTK	MBA

CENTRE FOR GRADUATE STUDIES ACTIVITIES

Working visits to ITB

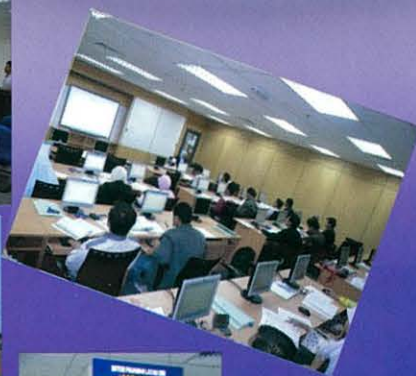Students registration

Students workshop

Facilities

Ten-pin bowling

WORKSHOPS

The Centre for Graduate Studies has organized a series of workshop on the Centre's Annual Planning and Operations at Mahkota Hotel, Melaka in January 2008 and at Royale Bintang Hotel, Seremban in April 2008. These workshops were conducted to improve and finalize important documents related to the running of graduate programs such as Guidelines for Preparation of Thesis, Report of Master Project and Dissertation and Academic Regulations for Graduate Studies.

Furthermore, the Centre for Graduate Studies with co-operation from the Centre for Quality Assurance and Accreditation had successfully organized the first workshop on ISO 9001:2000 for graduate programs at UTeM from February 29 to March 2, 2008 at the Awana Genting. The workshop was also attended by representatives from faculties and Institute. The follow-up workshop on ISO had been jointly-organized at Port Dickson from June 20 - 22, 2008.

Seminar on Supervision of Graduate Students

The one-day seminar on supervision of graduate students and research projects was conducted on June 11, 2008 at City Bayview Hotel, Melaka. The invited speakers were Prof. Hamid Hamidon of UTeM and Prof. Dr. Nasrudin Abdul Rahim from Universiti Malaya. This seminar was targeted for academic staffs of UTeM who were actively involved in supervision of graduate students.

Working Visit To Institut Teknologi Bandung (ITB), Indonesia

This delegation was headed by the Dean of Centre for Graduate Studies, Engr. Prof. Dr. Marizan Sulaiman, accompanied by the Assistant Registrar, Ms. Nor-Aliza Ibrahim and a group of graduate students from UTeM. The delegation participated in the seminar and visited the research laboratories and centres of excellence at ITB from November 18-21, 2007. Mr. Othman Mohd who is the President of Club for Postgraduate Students (KEPS) headed the students' group.

Promotional Activities Of Postgraduate Programs

The Centre for Graduate Studies has been in charged with the promotional activities of postgraduate programs with co-operations from Public Relations and Corporate Division (BPAK) and Academic Development and International Division (BPAA). The Centre and BPAA participated in the 13th Middle East Education & Training Exhibition and Symposium (MEETES 2008) in Jeddah, Saudi Arabia from March 10-13, 2008. The delegation from UTeM comprised of Engr. Prof. Dr. Marizan Sulaiman, Engr. Shamsul Bahari Azraai and Mr. Mohd. Azmi Mat Said. In addition, The Centre and BPAK also participated in Malaysia Education Exhibition (MOHEX 2008) which took place in Banda Acheh and Medan, Indonesia from May 17-21, 2008. UTeM was represented by Engr. Prof. Dr. Marizan Sulaiman, Ms. Kalthom Hussain and Ms. Nor-Aliza Ibrahim.

Jeddah
Arab Saudi

Medan & Aceh,
Indonesia

KELAB PASCA SISWAZAH (KEPS)
2007/2008

Foreword

Kelab Pasca Siswazah (KEPS) was established on 2005. The postgraduate students are automatically registered as members of this society. KEPS is a platform for postgraduate students to contribute their ideas, expertise, skills and creativity towards university mission and vision.

Currently, KEPS members consist of local and foreign students from different faculties and institute. Since 2007 until May 2008, the committee has conducted several activities for the members which include the working visit, workshops, community service and social events.

On behalf of KEPS members, the committee would like to thank Centre for Graduate Studies (CGS) for the support and cooperation.

In future, we hope KEPS members will grasp this opportunity to involve in

Committee Members

President :
Othman Mohd

Secretary :
Zahriah Othman

Treasurer :
Noor Akmal Abdul Wahab

Committee Members:
Mohd Najwan Md Khambari
Esmar Budi
Sazali Mohamad
Ismail
Mimi Haidazatul Zuhanaria Haron
Shahrul Niza Samsudin
Azril Naim Zainuddin
Chang Gee Guan

June - Dec 2008 Activities

Corporate Jacket
(June 2008)

International Students Carnival
(August 2008)

Ramadhan with Orphanage
(September 2008)

Working Visit
(November 2008)

Article for
Newsletter & Website
(July & November 2008)

Working visit - Institut Teknologi Bandung, Indonesia (18-21 Nov. 2007)

New Postgraduates Registration (Dec. 2007)

Thesis Writing Using MS Word (28 Feb, 2008)

Data Analysis Using SPSS (10 & 11 April 2008)

Ten-pin Bowling 2008 (03 May 2008)

THESIS ABSTRACT 1

Hairol Nizam bin Mohd Shah
MSc in Electrical Engineering
(January 2007)

Intelligent Space is a new concept to making a region of interest area that effectively use to track the mobile robot and other objects activities inside the region such as in a room. To create an Intelligent Space more efficient, the system must have three major algorithms related to each other. They are object classification, object tracking and obstacle avoidance. The inputs are receives from the cameras which are mounted on a camera stand. The main idea of the object classification is to classify object into three categories selected by colors; the categories are mobile robot, destinations and obstacle and represented it by X symbols. The goal of the system is to teach and train the mobile robot proceeding to destination without colliding with the obstacle.

The mobile root is autonomous; that means, it could be pursuing to the target position automatically without user guidance. Fuzzy logic is a medium to give the instruction about direction to the mobile robot until it reaches the target destination positions. This system is generated in real-time processes and it operates with two methods; the methods are point to point and continuous motion. In term of time-taken to complete the task, point to point method is faster which it take around 73.54 second compares continuous motion is around 80.9 second. One of the unique advantages of this research is that it only uses a camera and image processing generated by the algorithms itself without additional sensor such as sonar or IR sensor.

THESIS ABSTRACT 2

Mohd Yuhazri bin Yaakob
MSc in Manufacturing Engineering
(July 2007)

Most ballistic products use synthetic material such as Kevlar, also known as Aramid fiber for reinforcement. As Kevlar is petroleum based, its cost is very much dependent on world market price. It is envisaged that natural materials to replace Kevlar can contribute to the drop in cost of ballistic products. Waste bio-organic materials as a filler in matrix materials to be made into hybrid composites have emerged as an alternative. One such material is coconut fiber in the form of chopped strand mat to be used as a filler, sandwiched between Kevlar and woven roving fiber glass. ABS resin from thermoplastic polymer was used as the matrix material. By using hydraulic hot press, the hybrid plastic composite is produced in panels with size of 10 x 12 inches and thickness range between 14 to 16 millimeters controlled weight not more than 1.5 kilograms. As many as twelve different composite designed were produced in this research.

The highest filler in this composite reached 45.67% wt. The highest value for tensile force, hardness and pendulum impact test are 24.83 kN, 81.2 and 210.783 Joule respectively, with specimens shown pullout, peel off, delamination and slip condition on failure specimens. The ballistic test requested on the composite is based on NIJ standard-0101.04 to meet Type One requirement. However, the panel was tested using 9 mm FMJ projectile and 9 mm SMG Sterling Gun weapon for level IIA. This ballistic test show that all the hybrid composite panels behave differently, it is found that the composites panel has higher ductility and is less brittle compared to ceramic panel. The raw material cost for the panel is very dependent and influenced by the number of Kevlar layer in the composite. It is suggested that the best material is composite panel S/N 11 which has four plies of Kevlar and six plies of fiber glass. This is due to its mechanical strength, low raw material cost which is as low as RM 72.788 and its effectiveness as a high impact hybrid composite for ballistic resistance.

THESIS ABSTRACT 3

Soo Wai Lian
MSc in Electrical Engineering
(June 2008)

Supply disruption such as overloading will caused interruptions of electricity power supply to customers. The technicians have to manually locate the fault point and this tedious work may last for extended periods of time. So far, no research works on Supervisory Control Data Acquisition (SCADA) system have been done in the service substation side of the downstream distribution systems. This research presents the development of a customer side distribution automation system (DAS) for operating and controlling low voltage down stream of 415/240V by using the Tenaga Nasional Berhad (TNB) distribution system. The objectives of this research are to develop a Human Machine Interface (HMI) for SCADA that able to interact with the I/O devices by using Remote Terminal Unit (RTU), the SCADA system should be able to send correct response during faults and isolate faults as well as to reenergize unfaulted loads. An embedded Ethernet controller is used as RTU to act as converter for HMI to interact with digital input and output modules. Multi-point SCADA architecture is applied in this research where RTU is the master and digital input and output modules are the slaves. Polled approached is used as communication philosophy where the RTU will initiate the transaction with the digital input and output modules. Two proprietary software are used in this research which are to develop algorithm for the controller and to develop setup, alarm configuration, trending tools and communication setup. The algorithm written for fault isolation method is based on open loop distribution system. The algorithm is simulated using simulator tool provided by the software to check the fault isolation operation in producing the desired result. The experimental results are compared with the simulation results to make the final conclusion of the algorithm functionality. Based on the comparison, the simulation results are the same with the experimental results. This shows the algorithm has proved to be function correctly. The HMI monitoring system is correctly showing the fault point and generates the correct alarm messages for operator to be acknowledged. The SCADA system can be set to operate manually or automatically. In manual mode, operator can control the loads from the monitor. In automatic mode, the system will locate the fault, isolate the fault and reenergize unfaulted loads if faults occurred. Analysis based on the data collected has shown that the system able to reduce the outage time suffered during fault. By reducing the outage time, the utility company is able to improve service quality to customers and reduces money lost during supply disruptions. This research contributes to the research on low distribution automation system. The SCADA system developed provides automatic fault isolation, monitoring and controlling function for the operators and data collection for future

THESIS ABSTRACT 4

Hasbullah bin Ashari
Ph.D in Manufacturing Engineering
June, 2008

Gaps in the existing literature especially with respect to Manufacturing Strategies components alignment and its effect on firm performance provide the rationales to the current studies. This study examines specifically the alignment of three components of Manufacturing Strategies namely competitive priorities, structural decision represented by process structures, and infrastructural decision represented by IT applications, and their effects on firms' performance. In doing so, various relationships between the components have been examined and using Profile Deviation Method the overall alignment of the three components and its effect on performance has been assessed. A research framework was developed and five hypotheses were tested. Primary data was collected from Production or Manufacturing Managers or senior Engineers using mailed questionnaire while a case study was conducted to a company that has invested large amount to have an integrated IT applications system in place. Although the recommended sample size is 330, to ensure sufficient participation, 800 questionnaires were sent out to 800 companies. 104 questionnaires were returned which represented for about 12.88 % participation rate or a representative rate of 5.2 % of the population. Four types of statistical analyses were utilized namely Descriptive, Simple T-test, Profile deviation technique, and Simple Linear Regression. The following results were obtained (i) in general the results of the hypotheses testing on the various relationships between Process Structure and Competitive Priorities and Process Structure and IT Applications, and Competitive Priorities and Process Structure did not support the hypotheses; (ii) companies understudy exhibited the pattern of the Sand Cone theory; (iii) Profile Deviation technique employed to determine the effect of alignment or misalignment on performance yielded mixed results for Product Focused companies and Process Focus Companies. The case study indicated that there were indeed misalignments between the variables under study. Limitations to the current findings were also discussed and directions for future research proposed.

KALENDAR AKADEMIK

SEMESTER I 2008/2009
(JULAI - DISEMBER)

Semester I (25 Minggu)	7 Jul. 2008 - 28 Dis. 2008
Tempoh Pendaftaran dan pembayaran Yuran Pelajar Kanan dan Pelajar Baru	30 Jun 2008 - 4 Jul. 2008
Tarikh akhir untuk penambahan dan pengguguran mata pelajaran	8 Jul. 2008
Kuliah (Bahagian 1 - 6 Minggu)	7 Jul. 2008 - 17 Ogos 2008
Cuti Pertengahan Semester (1 Minggu)	18 - 24 Ogos 2008
Kuliah (Bahagian 2 - 5 minggu)	25 Ogos 2008 - 26 Sep. 2008
Cuti Khas (1 minggu)	26 Sep. 2008 - 5 Okt. 2008
Pengedaran Borang Laporan Kemajuan Pelajar (PPS-PG4)	8 Sep. 2008
Tarikh akhir Tarik Diri (TD) Mata Pelajaran	26 Sep. 2008
Kuliah (Bahagian 3 - 3 Minggu)	6 Okt. 2008 - 26 Okt. 2008
Cuti Ulang kaji (1 Minggu)	27 Okt. 2008 - 2 Nov. 2008
Tarik akhir untuk menyerahkan Borang Laporan Kemajuan (PPS-PG4) bagi pelajar program pengajian siswazah Mod Penyelidikan	31 Okt. 2008
Minggu Peperiksaan Akhir (3 Minggu)	3 Nov. 2008 - 23 Nov. 2008
Cuti Akhir Semester (5 Minggu)	24 Nov. 2008 - 28 Dis. 2008
Mesyuarat Jawatankuasa Pengajian Siswazah (JKPS) mengenai Peperiksaan/Keputusan Peperiksaan Semester 1 Sesi 2008/2009	13 Nov. 2008*
Mesyuarat Jawatankuasa Tetap Senat (JKTSPS) mengenai Peperiksaan/Keputusan Peperiksaan Semester 1 Sesi 2008/2009	27 Nov. 2008*
Mesyuarat Senat mengesahkan Keputusan Peperiksaan Semester 1 Pengajian Siswazah	24 Dis. 2008*

Tangguh Pengajian (TP)	
Tarikh akhir Tangguh Pengajian bagi pelajar yang belum mendaftar	1 Ogos 2008

Nota:

Pelajar dikehendaki mendaftar pada setiap semester sepanjang tempoh pengajiannya. Pelajar yang gagal mendaftar pada atau sebelum 1 Ogos 2008 akan ditamatkan pengajiannya.

* Tertakluk kepada perubahan
- Hari Kebangsaan (31 Ogos 2008)
- Awal Ramadhan (1 September 2008)
- Hari Raya Aidil Fitri (1-2 Oktober 2008)
- Hari Jadi Yang Dipertua Negeri Melaka (14 Oktober 2008)
- Deepavali (27 Oktober 2008)
- Hari Raya Aidil Adha (8 Disember 2008)
- Hari Krismas (25 Disember 2008)

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CENTRE FOR GRADUATE STUDIES
UNIVERSITI TEKNIKAL MALAYSIA MELAKA

UTeM focuses on the applied-based Public Institution of Higher Learning located on the fringe of the Historic City of Melaka. UTeM aims at providing the industry-relevant technical and technology biased higher education at the graduate levels leading towards Masters and Doctor of Philosophy (Ph. D). UTeM is offering opportunities to high-calibre and motivated graduates to pursue advanced studies and to conduct multidisciplinary research works in the following fields of interest.

A. ADMISSIONS TO GRADUATE PROGRAMS (BY RESEARCH)

1. Faculty of Electronic Engineering and Computer Engineering
   - Doctor of Philosophy and Master of Science in Electronic Engineering

2. Faculty of Electrical Engineering
   - Doctor of Philosophy and Master of Science in Electrical Engineering

3. Faculty of Mechanical Engineering
   - Doctor of Philosophy and Master of Science in Mechanical Engineering

4. Faculty of Manufacturing Engineering
   - Doctor of Philosophy and Master of Science in Manufacturing Engineering

5. Faculty of Information and Communication Technology
   - Doctor of Philosophy and Master of Science in Information and Communication Technology

6. Institute of Technology Management and Entrepreneurship
   - Doctor of Philosophy and Master of Science in Technology Management and Entrepreneurship

B. ADMISSIONS TO GRADUATE PROGRAMS (BY TAUGHT COURSES)

(I) Master of Business Administration (MBA)
1. Master of Business Administration (Technology and Innovation Management)
2. Master of Business Administration (Advanced Operations Management)

(II) Master of Computer Science (MCSc.)
1. Master of Computer Science (Internetworking Technology)
2. Master of Computer Science (Software Engineering and Intelligence)

(III) Master of Science (UTeM-Coventry University Collaborative Program)
1. Master of Science (Engineering Business Management)
2. Master of Science (Manufacturing Systems Engineering)

C. ENTRY REQUIREMENTS

Master of Science (including UTeM-Coventry University Collaborative Program), Master of Business Administration and Master of Computer Science:

- An Honours Bachelor degree with good grades from Universiti Teknikal Malaysia Melaka or any other institutions of higher learning recognized by the Senate; or
- A qualification equivalent to the Bachelor degree and experience in the relevant fields recognized by the Senate.

Doctor of Philosophy:

- A Master degree from Universiti Teknikal Malaysia Melaka or any other institutions of higher learning recognized by the Senate; or
- A qualification equivalent to the Master degree and experience in the relevant fields recognized by the Senate.

D. ANNUAL INTAKES

- Masters and Doctor of Philosophy : July and December
- Master of Business Administration: March and July
- Master of Science (UTeM - Coventry University): September

E. APPLICATION FOR ADMISSION

Application form can be obtained from the Centre for Graduate Studies or by sending a self-addressed envelope (28 x 34 cm) and RM1.00 stamp. Please write the name of the programme on the top left hand corner of the envelope and address it to:

DEAN
CENTRE FOR GRADUATE STUDIES
UNIVERSITI TEKNIKAL MALAYSIA MELAKA
LOCKED BAG 1200, HANG TUAH JAYA,
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Online application form can be downloaded from www.utem.edu.my/pps. All supporting documents with the processing fee (non-refundable) of RM30.00 for local or USD25.00 for international students must be submitted by post to the Centre for Graduate Studies.

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