

# ANNUAL REPORT 2009

## CONTENTS

### 1. VISION

To be an internationally renowned centre of excellent in research and education in Computer Science and Information Technology

### 2. MISSION

To advance and disseminate knowledge through research, teaching and learning in Computer Science and Information Technology inline with the hopes and aspirations of the people and the nation

### 3. OBJECTIVES

To sustain an outstanding faculty dedicated to excellence in undergraduate and postgraduate teaching, learning and research.

To contribute towards development of the nation through the production of quality research and publications

To provide innovative academic programs that can respond to the changing needs of the society

To produce quality graduates who are equipped with advanced knowledge and skills of computer science and information technology

#### 4. LOGO



#### The Philosophy of FSKTM Logo

The Faculty of Computer Science and Information Technology (FSKTM), Universiti Malaya is devoted to the teaching, learning, and research as well as disseminating of current knowledge, as symbolized by the blue arch. The arch symbolizes the circle which is self referential and that refers to self-sufficiency and completeness. The navy blue color refers to Universiti Malaya, the blue sky and the cosmos which is infinite.

Self referential refers to the highest quality whereby it does not need to be defined by any reference, accredited or benchmark (Quantum Gravity) and completeness refers to self sufficiency in terms of infrastructure, human resource and current knowledge. This will be the ultimate goal of the faculty. The purple color of FSKTM refers to the dynamic infinite knowledge in computer science and information technology. The color purple of FSKTM is of high frequency and is directional and penetrable. Hence, knowledge learnt, taught and disseminated will be of the highest quality and proper teaching pedagogy incorporated for effective teaching and learning.

The yellow arch cutting across the blue boundary of knowledge refers to the quantum jump, symbolizing the faculty's bold leap to the unknowns, i.e. beyond the boundaries of knowledge. This refers to research and the creation of new knowledge obtained by plunging into the unknown. The jump is represented as a bold arch and is of yellow colour. The bold arch refers to courage and signifies the enterprising spirit of exploring the unknown.

The logo of FSKTM represents a synergy of teaching, learning, research and dissemination of knowledge. This existence of knowledge is enriched by research done at the faculty and this crystallized new knowledge is precipitated through publications, innovations, patents and by incorporation to the existing curriculum.

### **3. ADMINISTRATIVE STAFF**

#### **Dean**

Professor Dr. Mohd Sapiyan Bin Baba (until 30.06.2009)  
Professor Dr. David Ngo Chek Ling (01.07.2009 - 2.2.2010)

#### **Deputy Dean (Development & Research)**

Dr. Teh Ying Wah (until 30.10.2009)  
Associate Professor Dr. Ling Teck Chaw (1.11.2009 – Present)

#### **Deputy Dean (Undergraduate)**

Associate Professor Dr. Phang Keat Keong (until 31.8.2009)  
Professor Dr. Zainab Awang Ngah (1.9.2009 – Present)

#### **Deputy Dean (Postgraduate)**

Associate Professor Dr. Diljit Singh

#### **Head, Department of Artificial Intelligence**

Dr. Rukaini Hj Abdullah (until 31.8.2009)  
Dr. Woo Chaw Seng (1.9.2009 – Present)

#### **Head, Department of Software Engineering**

Professor Dr. Siti Salwah Salim (until 4.8.2009)  
Associate Professor Raja Noor Ainon Zabariah (1.10.2009 – Present)

#### **Head, Department of Information Science**

Associate Professor Dr. Abrizah binti Abdullah  
Dr. Norizan Mohd Yasin

#### **Head, Department of Computer Systems and Technology**

Dr. Miss Laiha binti Mat Kiah (until 31.8.2009)  
Associate Professor Dr. Phang Keat Keong (1.9.2009 - Present)

#### **Head, Library Science and Multimedia Unit**

Associate Professor Dr. Diljit Singh (until 30.11.2009)  
Dr. Noor Harun Abdul Karim (1.11.2009 - Present)

#### **Head, Multimedia Unit**

Dr. Nor Aniza Abdullah (until 31.8.2009)  
Associate Professor Dr. Phang Keat Keong (1.9.2009 - Present)

#### **Coordinator, Industrial Training**

Professor Dr. David Ngo Chek Ling  
Dr. Chiew Thiam Kian

#### **Coordinator, Bachelor of Islamic Studies and Information Technology**

Dr. Omar Zakaria

#### **Coordinator, Master Information Technology and Communication**

Associate Professor Dr. Phang Keat Keong

#### **Coordinator, Master of Education (Mathematic) with Information Technology and Communication**

Associate Professor Dr. Phang Keat Keong

#### **Coordinator, Bachelor of Information Technology (Management)**

Dr. Norizan Mohd Yasin

**Principal Assistant Registrar**  
Rosnani Ab Aziz

**Assistant Registrar**  
Rumiza Ahmad  
Mohd Hairolnezam Kahmis

**Information System Officer**  
Nor Khaizura Mohamed Kassim  
Mohaidah Muhammad  
Noorsyahidah Abd Wahab

## 4. ACADEMIC STAFFS

### Department of Artificial Intelligence

#### **Profesor (Professor):**

Mohd. Sapiyan Baba, BSc(Hons)(Essex), MSc(Dundee), PhD(Keele)  
Roziati Zainuddin, BSc (Hons)(Monash), MSc (Reading), PhD (East Anglia)  
Roman Richard Poznanski, MSc(Monash), PhD (ANU) Australian National University

#### **Profesor Madya (Assoc. Professor):**

Sameem Abd. Kareem (Datin), B.Sc(Hons)(Mal), M.Sc(Cardiff), PhD(Mal)

#### **Pensyarah (Lecturer):**

Md. Nor Ridzuan Daud, B.Comp. Sc(Hons)(UTM), Mphil. Comp. Sc(Aberystwyth)  
Norisma Idris, B.Comp. Sc(Hons)(Mal), M. Comp. Sc. (Mal)  
Rohana Mahmud BSc(Hons)(Waikato), MSc(USM), PhD Manchester.  
Rukaini Hj. Abdullah BSc(Hons)(Virginia), MSc(Miami), PhD(Leeds)  
Siti Soraya Abdul Rahman, Dip. Tek. Maklumat(Infotech Mara), Dip. Comp. Studies(Infotech Mara),  
Bsc(Hons) IT(Glamorgan), M. Comp. Sc.(Mal)  
Woo Chaw Seng, B. Comp. Sc.(Hons)(Mal), M. Comp. Sc.(Mal), PhD (QUT), MACM, MIEEEE, MMNCC  
Norlia Md Yusof, BComp(Mal), MComp (Mal)  
Ng Liang Shing, B.Eng (Hons), Electronic Eng (Southampton)UK, PhD(Southampton) UK  
Sundar Raju Raviraja, HDSM (INDIA), PGDCA (INDIA), B.Sc (Comp Sc), INDIA, M.C.A INDIA, Ph.D (HONOLULU)  
Akcell Chiang Chii-chung, B.Sc (Taiwan), M.Sc (Math Comp Option)(USA), PhD Comp.Sc.& IT

#### **Pengajar - Skim Latihan Akademik Bumiputera (SLAB)**

##### **(Tutor – Bumiputera Academic Training Scheme):**

Erma Rahayu binti Mohd Faizal, B.S (Hons)(Mal)  
Johriah Norfizlina Ismail, B.Comp. Sc(Hons)(Mal)

#### **Pengajar Sementara (Tutor)**

Ku Chin Soon Bsc (Hons)(Mal)  
Hairul Aysa Abdul Halim Sithiq, Dip. Comp. Scien (UPM), B.Comp.Scien (KUTPM)

### Department of Computer System and Technology

#### **Profesor (Professor):**

Dato' Mashkuri Hj. Yaakub (Dato'), BE(NSW), MSc, PhD (Manc), MIEE, SrMIEEEE, MIEM, PEng, CEng  
David Ngo Chek Ling, B.A, B.A.I (Hons) (Ireland), PhD Comp Sc. Dublin (Ireland)

#### **Profesor Madya (Assoc. Professor):**

Ling Teck Chaw, BSc(Hons)(Mal), M.Comp.Sc(Mal) PhD (Mal)  
Phang Keat Keong, BSc(Mal), Dip. Comp. Sc(Mal), M. Comp. Sc(Mal), PhD(Mal)  
Farook Sattar, B.Eng(Honors)(Dhaka), M.Eng(Dhaka), PhD (Sweden)

#### **Pensyarah (Lecturer):**

Amirrudin Kamsin, B.Comp.Sc(Hons)(Mal) MSc(Bournemouth)  
Ang Tang Fong, BIT(Hons) (Mal), M. Comp. Sc(Mal)  
Emran Mohd Tamil, Beg Electrical-Robotic (UTM), MSc-IT (UiTM)

Fazidah Othman, B.Comp. Sc(Hons)(UTM), MSc(UTM)  
Hannyzzura Pal @Affal, BComp. Sc(Hons)(Mal), MSc(London)  
Liew Chee Sun, B.Comp.Sc(Hons)(USM), M.Comp.Sc(USM)  
Mas Idayu Md. Sabri, B. Comp. Sc(Hons)(Mal)MSc(bath)  
Mazliza Othman, BSc(Hons)(UKM), MSc(London), PhD(London)  
Miss Laiha Mat Kiah, BComp. Sc(Hons)(Mal), MSc(London),Phd London  
Mohammad Nizam Ayub, B.Comp. Sc(Hons)(Mal), M.Sc(Edinburgh)  
Mohd. Yamani Idna Idris, BE(Hons)(Mal) M. Comp. Sc(Mal)  
Noorzaily Mohamed Nor, BSc(Hons)(Mal) M. Comp. Sc(Mal)  
Nor Aniza Abdullah, B.Comp. Sc(Hons)(Mal), MSc(London), Phd Southampton (UK)  
Nor Badrul Anuar Juma'at, B. Comp. Sc(Hons)(Mal) (M. Comp. Sc(Mal)  
Nornazlita Hussin(Puan), B.Comp.Sc(Hons)(Mal), MSc(Bath)  
Nurul Fazmidar Mohamad Nor, BComp. Sc(Hons)( Mal), MSc(Liverpool)  
Omar Zakaria, Bcomp. Sc(Hons)(Mal), MSc(London),PhD London  
Por Lip Yee@ Por Khoo Sun, B. Comp. Sc. (Hons)(Mal) M. Comp. Sc. (Mal)  
Rafidah Mohd. Noor, BIT(Hons) (UUM), M.Sc(UTM)  
Rosli Salleh, B. Comp. Sc. (Hons)(Mal), M. Sc(Salford), PhD(Salford)  
Zaidi Razak, B. Comp. Sc(Hons)(Mal), M. Comp. Sc(Mal)  
Mohammed Ziaur Rahman, B.Engg (Comp.Sc),PhD (Australia)  
Hamid Abdulla Jallb Al-Tulea,B.Sc in Electronic Eng.(Baghdad),M.Sc Comp engg.(Ukraine),PhD (Ukraine)

**Pengajar Sementara (Temp. Tutor):**

NurulHuda Ismail,

**Pengajar - Skim Latihan Akademik Bumiputera  
(Tutor - Bumiputera Academic Training Scheme)**

Rusyaizila Ramli, BIT (UM)

Safinaz Mustapha, B. Comp. Sc. (UTM)

Ismail Ahmedy, Dip Comp.Sci, B.Sc(hons) (Comp)(UTM), M.sc (UTM)

Jazilah Jamaluddin, BICT,(AUSTRALIA)

## Department of Information Science

**Profesor (Professor):**

Zainab Dato' Awang Ngah, BA (Hons) (Cardiff), MA (Cardiff, MSc(InfoStudies) (Lough), PhD (Lough), ALA (Lond)

**Profesor Madya (Assoc. Professor):**

Abrizah Abdullah, BSc.Engrg(Hons)(Temple), Dip.Ed., MLIS (Mal), Phd (Mal)

Diljit Singh a/l Balwant Singh, BSc(Hons) (Mal), Dip.Ed.(Mal), MS(Florida State), PhD(Florida State), AMIM

Nor Edzan Hj. Che Nasir,B.Sc(Hons)(USM),PGD Info Mgmt (Sydney),M.Sc(Leeds),PhD (Mal)

Salimah Mokhtar , BSc(Hons)(Univ. of the Pacific), MSc(Eastern Washington Univ.)

**Pensyarah (Lecturer):**

Ali Fauzi Ahmad Khan, BSc. Mgmt(Hons)(Oregon), MSc(UiTM)

Azah Anir Norman, SMTM(Hons)(UKM)

Fariza Hanum Md. Nasaruddin, BSc(Hons)(Illinois), MSc(Illinois)

Kiran Kaur Gurmit Singh, BSc. Ed(Hons)(UKM); MLIS(UM)

Maizatul Akmar Ismail, BIT(Hons)(Mal), MSc(UPM)

Mohd. Khalit Othman B. Comp Sc(Hons)(Mal), STM(UKM)

Mustaffa Kamal Mohd. Nor, BBA(Management)(Hons)(Texas), MSc(Comp.) (Newcastle)  
Norizan Mohd. Yasin, DPA(UiTM), BBA(Hons)(Miami), MBA(Miami), MSc(CIS) (Miami), PhD  
(Manchester) UK  
Norjihhan Abdul Ghani, SMTM(Hons)(UUM), STM(Sains Maklumat) UKM  
Sri Devi a/p Ravana, BIT(Hons)(UKM), Masters in Software Engineering (Mal)  
Suraya Hamid, BIT(Hons)(UKM), MIT(UKM)  
Teh Ying Wah, BSc. Comp. Sc(Hons)(Oklahoma), MSc. Computer Science(Oklahoma),  
PhD(Mal)  
Noorhidawati Abdullah, SMTM(Hons)(UKM), STM(UKM), PhD (Glas)  
Noor Harun Abdul Karim, Dip.Lib Scien (UITM), MSc.IS(UK), PhD Com.&info studies(USA)

### **Pengajar - Skim Latihan Akademik Bumiputera (SLAB)**

#### **(Tutor – Bumiputera Academic Training Scheme):**

Hilmi Md Rifin, BIT(Hons)(Mal)

#### **Pengajar Sementara (Temp. Tutor):**

Mohd Norhaedir Idris ,BIT(Hons)(Mal)

Nor Liyana Mohd Shuib, IT(UKM), Sains (UITM)

Ely Salwana Mat Surin, BSc. Comp (UITM), MSc. Comp(UITM)

## **Department of Software Engineering**

### **Professor (Professor):**

Siti Salwah Salim , B. Sc(Hons)(Kansas), M. Comp. Sc.(Mal), PhD(Manchester)

Lee Sai Peck, B.Sc.(Comp. Sc.) (Hons) (NatUMalaysia), M.Sc.(Comp. Sc.)(Mal), D.E.A. Comp  
Sc.(Paris VI), PhD(Paris I)

### **Professor Madya (Assoc. Professor):**

Ow Siew Hock, B.A. (Hons)(Mal), Dip. Comp. Sc.(Mal), M. Comp. Sc.(Mal), PhD(Mal)

Raja Noor Aion Zabariah bt. Raja Zainal Abidin, BSc(Hons)(Mal), Dip. Comp. Sc.(Mal),  
MSc(Bristol)

### **Pensyarah (Lecturer):**

Chiew Thiam Kian, B.Comp. Sc(Hons)(Mal), M. Comp. Sc(Mal) ,Phd University Glasgow

Nazean Jomhari), SMTM(Hons)(UKM) Master in Software Engineering

Methods(Essex,UK)

Norazlina Khamis, B. Comp. Sc(Hons)(Mal), M.Sc(UTM)

Rodina Ahmad, BSc(Hons)(Hartford), MSc(Comp. Sc.) (Hartford), PhD (UKM)

Raja Jamilah Raja Yusof , BEng(Hons)(London), M. Comp. Sc. (Mal)

Siti Hafizah Abd. Hamid, B.Comp. Sc(Hons)(UTM) MSc. in Computer Systems Design  
(UMIST, Man)

Su Moon Ting , B. Comp. Sc. (Hons)(UPM), M. Comp. Sc(UPM)

Zarinah Mohd. Kasirun, SmSn(Hons)(UKM), SSn(UKM), PhD UM (Mal)

Mohd. Hairul Nizam Md. Nasir, BComp. Sc(Hons)(Mal)

### **Pengajar - Skim Latihan Akademik Bumiputera**

#### **(Tutor – Bumiputera Academic Training Scheme):**

Asmiza Abdul Sani, BComp.Sc (UM)

Lee Boon Why, B.Com.SC(Mal)

Nor Suhaila Jama'in, B.INFORMATION TECHNOLOGY (HONOURS)S.E, (MMU),

## 5. SUPPORT STAFF

The faculty is housed in two buildings. There are two administrative offices with functions as follows:

1. Main building built in 1994 – Dean's office and administration of Postgraduate affairs
2. New building built in 1996 – Administration of undergraduate affairs (Annex's Building)

The office provides administrative support to the Dean and the management team to facilitate the smooth operation of the Faculty on day-to-day basis. Today we have about 35 support staff that is placed into 2 offices. Their main duties include student enrolment, records keeping, timetabling and the management of the faculty as well as answering general enquiries about the faculty. They have a very good knowledge of the faculty's infrastructure, academic programmes, procedures, rules and regulations.

### Office Hours

Monday through Thursday: Friday

8.30 a.m. - 1.00 p.m. 8.30 a.m. – 12.15 p.m.

2.00 p.m. – 5.30 p.m. 2.45 p.m. – 5.30 p.m.

### Assistant Information

#### System Officer (F29) :

Hamisah Redzwan

Sim Kian Hwa

Rita Afriani bt. Mohd. Yusu

#### Assistant engineer (J32) :

Baharuddin Khalid

#### Administrative Assistant

##### (Secretarial) (N22)

Habibah Tandang (until 12.7.2010)

Masnah Mohammed (13.7.2010 – present)

Latifah Noordin

Roslaili Rusli (Cuti Tanpa Gaji 3 Tahun)

#### Administrative Assistant

##### (Clerical / Operational) (N22):

Wan Saripah Wan Sulaiman

#### Administrative Assistant

##### (Secretarial) (N17)

Noordalilia Ilyana Kiwam

Siti Amiza Hashim

#### Administrative Assistant:

##### (Clerical / Operational) (N17)

Ernie Irwana Badarudin

Faridah Mat Yaacob

Masyithah Yusof

Mazrulhisham Mat Yusuf

Mursyida binti Che Aziz

Natrah Abdul Rahman

Noraishah Abd. Latiff

Norazirah Mohd Supi

Norhafidzan Ahmad  
Norhazariah Husin  
Rohayu Mohd Nor  
Pappu a/p Sappani

**Administrative Assistant  
(Accounts)(W17):**  
Nurul Akmar Hashim

**Technician (J17):**  
Mohd. Nizam Ismail  
Mohd Azren bin Misnan

**Technician (FT17):**  
Azrul Ahmad  
Aini Munira Ahmad  
Huswadi Hussain  
Mohd Ezuan Amom  
Muhamad Farhan b. Yeop Abdul Hamid

**Lab. Assistant (C17):**  
Seemandass s/o Ryepun

**Office Assistant (N1):**  
Herman Shah Ramli  
Mohd. Syariffuddin Ibrahim

**Driver (R3):**  
Mohamad Lutfi Shuhud

## **6. PROGRAMMES AND STUDENTS**

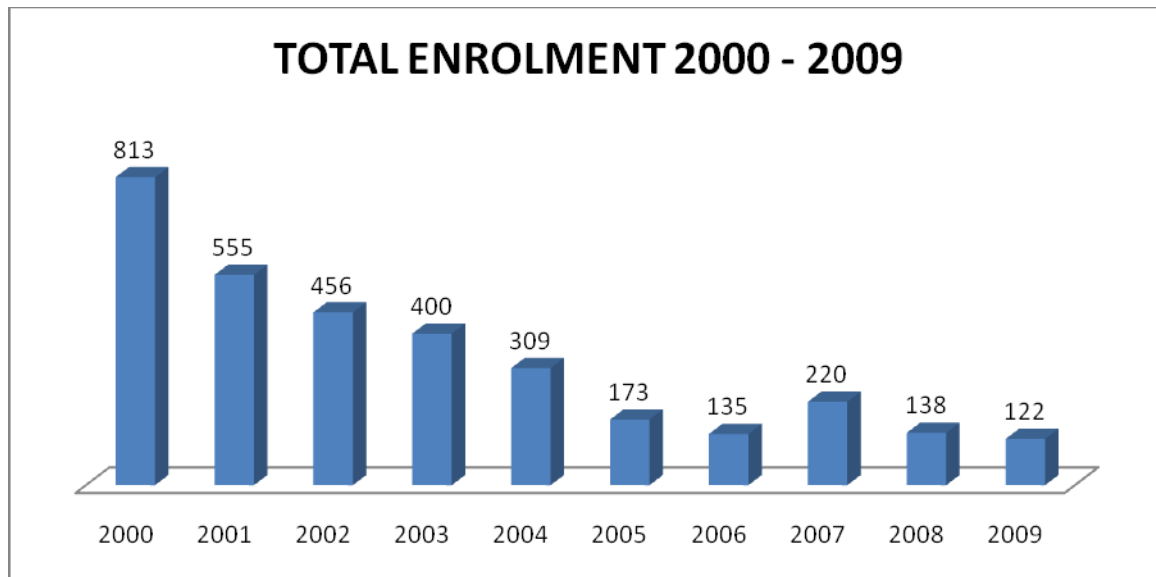
[Undergraduate Programmes](#) (Cik Rumiza kena semak dulu)

### **Enrollment**

Since its inception in 1994, the Faculty offers two undergraduate degree programmes, the Bachelor of Computer Science and the Bachelor of Information Technology. The Bachelor of Computer Science offers specialization in the fields of Artificial Intelligence (AI), Computer Systems and Networking (CSN), Management Information System (MIS) and Software Engineering (SE). The fields of specialization offered by the Bachelor of Information Technology are Management (M), Multimedia (MM) and Information System (IS).

The total number of students enrolled in the two undergraduate degree programmes has increased gradually and peaked in the year 2000. However, in order to improve the quality of the learning environment and to maintain an ideal student-lecturer ratio, the Faculty has begun to gradually reduce its intake since the 2004/05 session. Figure 1 indicates the total number of students enrolled with the Faculty between 2000 and 2009. The intake for the Bachelor Degree in Computer Science has remained doubled to that of the Bachelor of Information Technology over the years (Table 1).

**Figure 1:**



**Figure 1: Total Enrolment 2000-2009**

**Table 1: Intake Trends between 2000 and 2009 by Programmes**

Year	Computer Science	Information Technology	Total
2000	475	338	813
2001	361	194	555
2002	275	181	456
2003	250	150	400
2004	198	111	309
2005	117	56	173
2006	113	22	135
2007	141	79	220
2008	97	41	138
2009	93	29	122

Table 2 and Figure 2 indicate that the total number of active students with the Faculty as in 2009/2010 is 717 comprising of 520 students in the Bachelor of Computer Science and 197 students in the Bachelor of Information Technology programmes. Table 2 also shows the number of active registration by fields of specialization from 2000/2001 to 2007/2008. Beginning from 2007/2008 intake, a change in the curriculum structure of the two programmes resulted in students only permitted to specialize in the second year of their studies.

Figure 2:

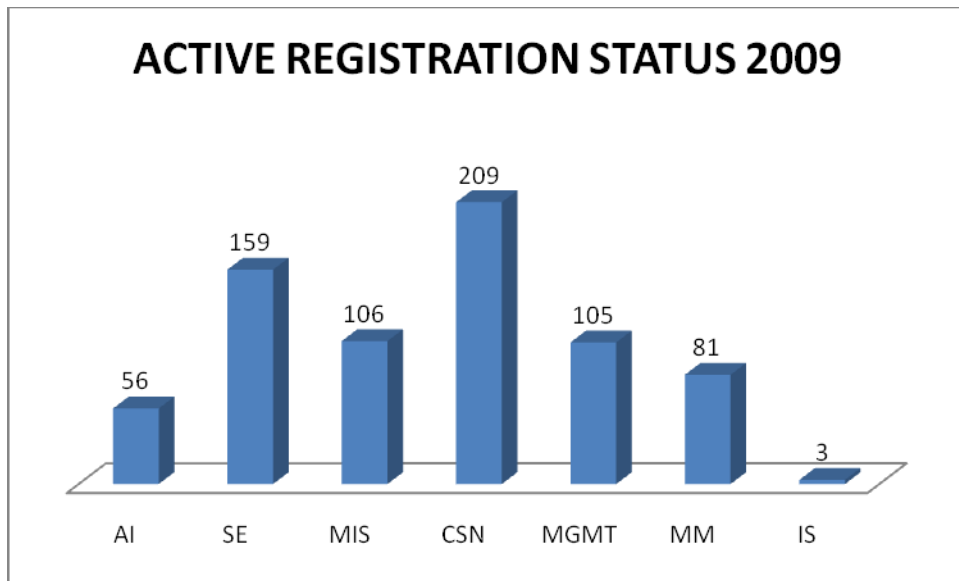
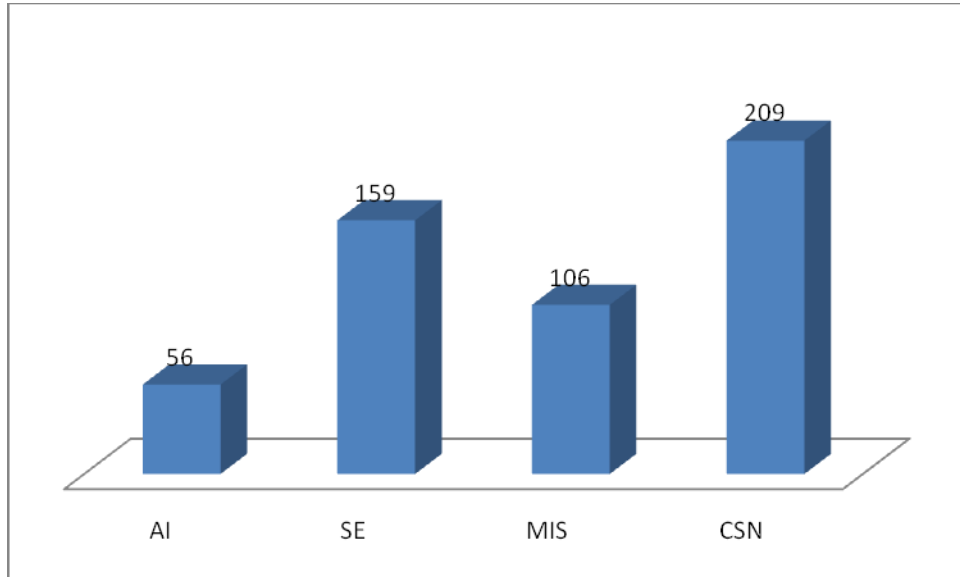


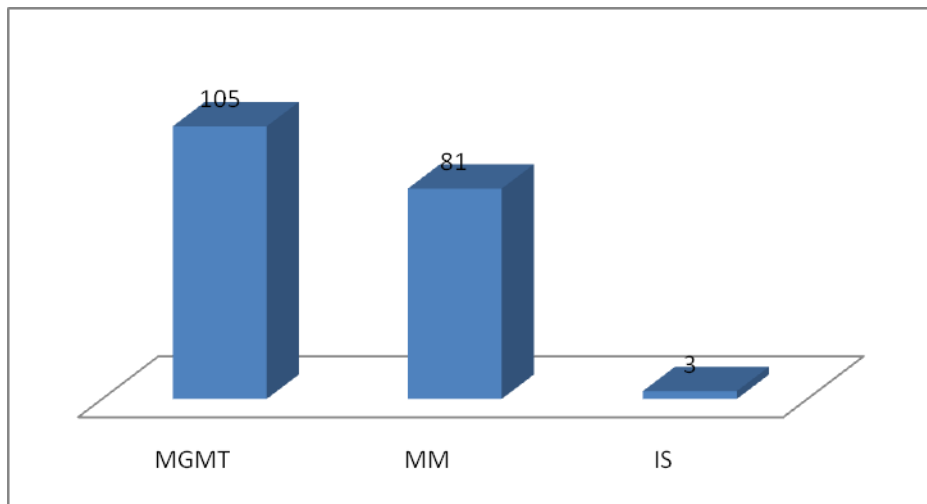
Figure 2: Active Registration Status for Undergraduates in 2009

	AI	SE	MIS	CSN	TOTAL	MGMT	MM	IS	TOTAL
2000/2001	0	0	0	0	0	0	0	0	0
2001/2002	0	1	0	1	2	1	0	1	2
2002/2003	0	7	0	1	8	2	0	1	3
2003/2004	7	6	2	7	22	8	2	1	11
2004/2005	4	19	16	32	71	16	19	0	35
2005/2006	10	21	15	49	95	30	11	0	41
2006/2007	5	44	14	50	113	10	12	0	22
2007/2008	17	27	37	31	112	14	28	0	42
2008/2009	13	34	22	38	107	24	9	0	33
2009/2010	0	0	0	0	93	0	0	0	29
<b>Total</b>	<b>56</b>	<b>159</b>	<b>106</b>	<b>209</b>	<b>623</b>	<b>105</b>	<b>81</b>	<b>3</b>	<b>218</b>

Figures 3 and 4 indicate the detailed breakdown of those still actively registered by fields of specialization. In Computer Science, the areas of specialization, which are popular in 2007/2008, are Computer Systems and Networking and Software Engineering. In Information Technology, Management is the first choice among undergraduates in 2009/2010.



**Figure 3; Total Number of Active Registration as in 2008/2009: Computer Science**



**Figure 4: Total Number of Active Registration as in 2008/2009: Information Technology**  
 MGMT – Management; MM – Multimedia

### Graduation

The total of 77 students was graduated in 2009 consisting of 55 students from the Bachelor of Computer Science and 22 students from the Bachelor of Information Technology (Table 3). Meanwhile, Table 4 shows the number of graduates by their specialization for both Computer Science and Information Technology for the year 2009.

**Table 3: Graduates between 2001 and 2009 by Programmes**

Year	Computer Science	Information Technology	Total
2001	184	118	302
2002	328	193	521
2003	417	221	638
2004	402	258	660
2005	319	205	524
2006	302	181	483
2007	169	109	278
2008	135	57	192
2009	55	22	77
<b>Total</b>	<b>2311</b>	<b>1364</b>	<b>3675</b>

**Table 4: Graduates in Each Specialization – 2009**

BCS		BIT	
Specialization	Total	Specialization	Total
AI	7	M	8
SE	18	MM	18
MIS	9	IS	0
CSN	21		
<b>Total</b>	<b>55</b>		<b>22</b>
<b>Total</b>	<b>77</b>		

Tables 5 and 6 list the number of graduates who has attained a CGPA of 3.0 and above. In 2009, a total of 13 (17%),out of 77 students graduated from both the Computer Science and the Information Technology programmes with a CGPA of 3.0 and above.

Of this total, 9 (16%) out of 55 students from the Bachelor of Computer Science programme and 4 (18%) out of 22 students from the Bachelor of Information Technology programme (see Tables 5 and 6) graduated with a CGPA of 3.0 and above. These figures indicate that the Faculty has surpassed the minimum quality target of the university; i.e. ensuring that 30% of graduating students attain a CGPA of greater than 3.0.

**Table 5: Graduates with CGPA 3.0 and Above (2009)**

CGPA	Computer Science	Information Technology	Total
3.7 - 4.0	0	0	0
3.5 - 3.69	0	0	0
3.0 - 3.49	9	4	13
Total	9	4	13

**Table 6: Graduates with CGPA > 3.7 (2009)**

	<b>Computer Science</b>	<b>Information Technology</b>	<b>Total</b>
2009 Graduates	55	22	77
CGPA > 3	9	4	13
CGPA > 3.7	0	0	0

Table 6 indicates that 11 students, which are 10 students from the Bachelor of Computer Science and 1 student from the Bachelor of Information Technology achieved a CGPA of 3.7 and above (Dean's List).

## **AWARDS**

### **Excellent Students**

Table 7 and 8 list students graduated with excellence and were awarded the University of Malaya Book Prize for the year 2009

**Table 7: University of Malaya Book Prize (Computer Science)**

<b>No</b>	<b>Name</b>	<b>Metric no.</b>
1	Gan Eng Chin	WEK050023
2	Ho Peng Foong	WEK050026
3	Hong Jia Jean	WEK050029
4	Lam Shiau Yun	WEK050041
5	Lee Kok Keong	WEK050045
6	Low Weng Kin	WEK050053
7	Olivia Leong Huey Ling	WEK050094
8	Yeoh Kim Thiam	WEK050131
9	Yong Yoke Leng	WEK040206
10	Ong Sim YIng	WEK050095

**Table 8: University of Malaya Book Prize (Information Technology)**

<b>No</b>	<b>Name</b>	<b>Metric no.</b>
1	Lim Xi Zieh	WET050024

## Postgraduate Programmes

### Enrolment

The Faculty offers four postgraduate programmes comprising of the:

- i. Master of Computer Science
- ii. Master of Library and Information Science
- iii. Master of Software Engineering
- iv. Master of Information Technology.

All the Master programmes are conducted through a variety of modes which are;

- i. by coursework (MLIS, MIT),
- ii. by coursework and dissertation (MCS, MLIS, MSE, MIT),
- iii. by dissertation (MCS, MLIS).

The minimum duration for each programme is three semesters and a maximum of ten semesters.

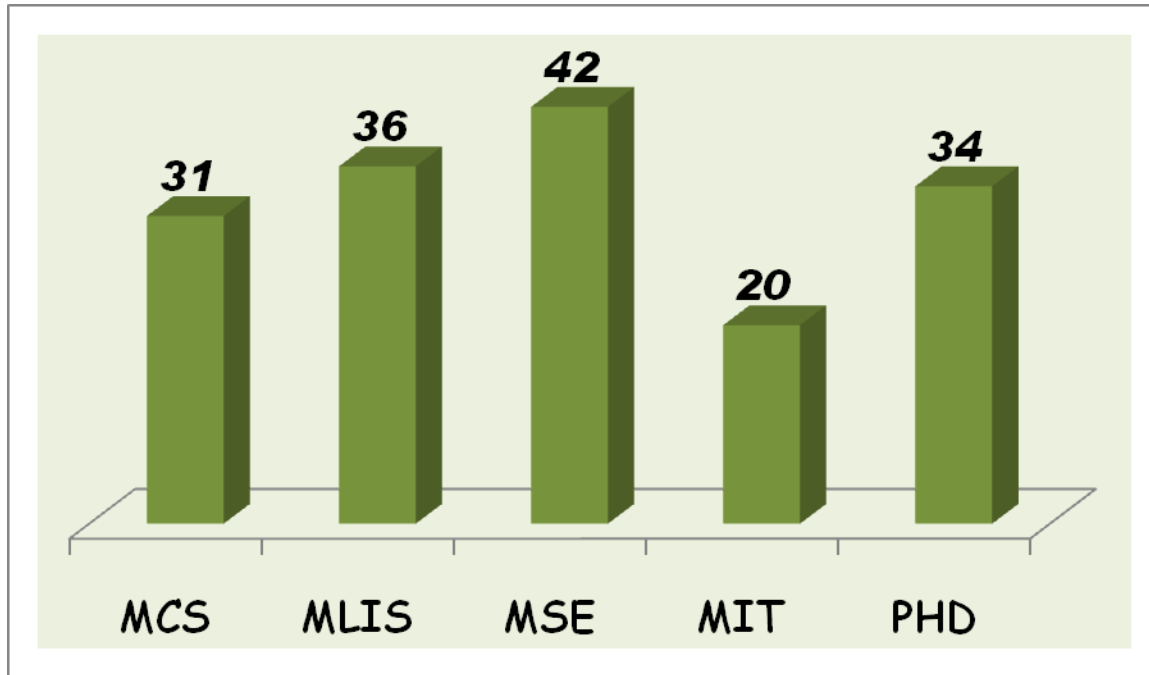
Over the years, the total numbers of postgraduate admissions have increased as indicated in Table1. However, from 2004 onwards, the Faculty reduced its student admission in order to lower the staff and student ratio.

**Table1: Total Admission of Postgraduate Students by Programmes 1993 - 2009**

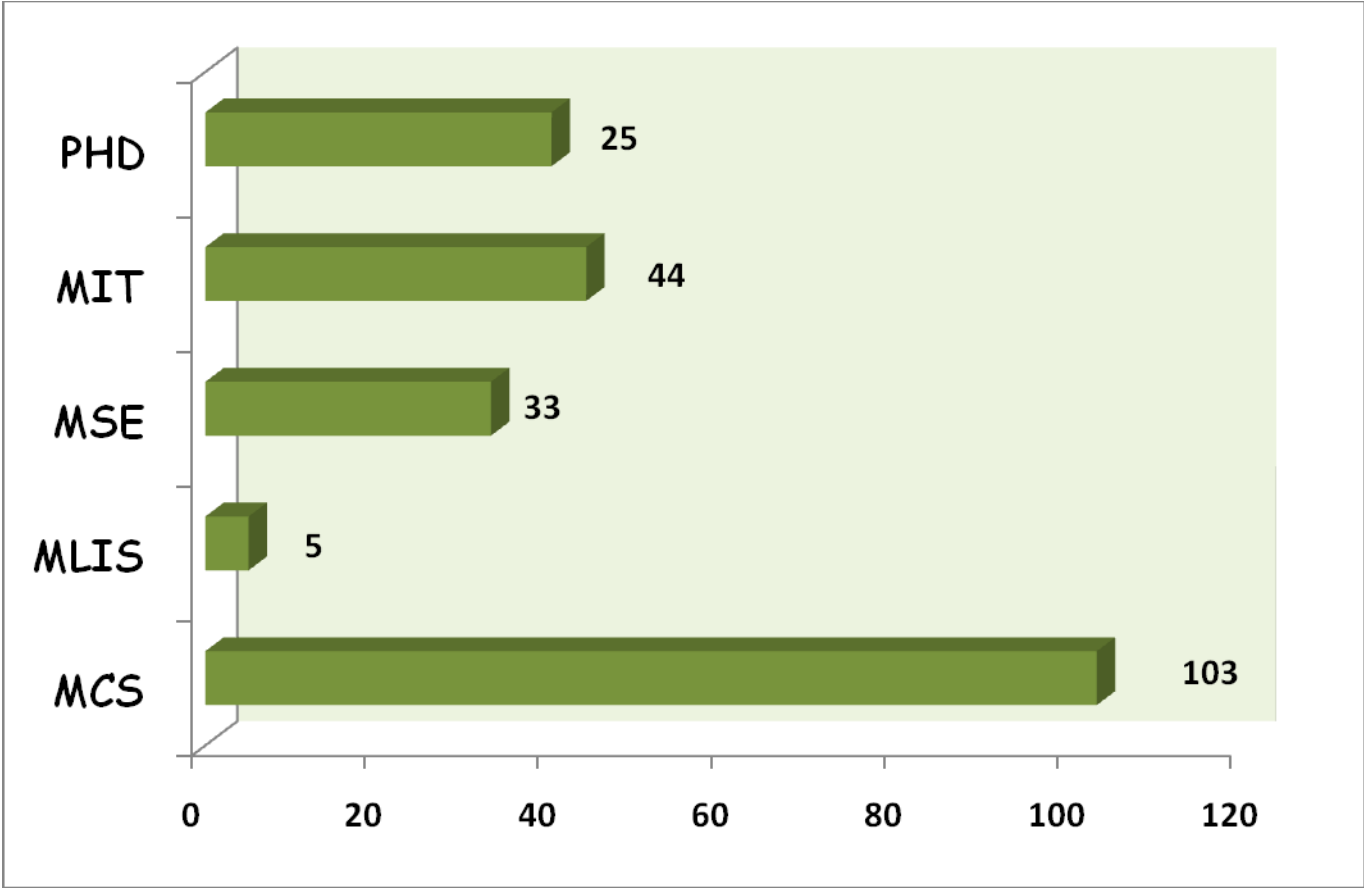
Year	Master of Computer Science	Master of Library and Information Science	Master of Software Engineering	Master of Information Technology	Doctor of Philosophy	Total
1993-96	16	37	0	0	11	64
1997	4	18	10	0	1	33
1998	32	18	9	0	2	61
1999	58	11	8	0	5	82
2000	49	21	15	74	9	168
2001	52	31	36	66	6	191
2002	57	36	64	50	11	218
2003	91	39	93	83	18	324
2004	84	39	23	48	21	215
2005	104	40	24	47	28	243
2006	99	23	50	44	19	235
2007	106	17	22	65	29	239
2008	53	10	19	17	21	120
2009	31	36	42	20	34	163
<b>Total</b>	<b>836</b>	<b>376</b>	<b>415</b>	<b>514</b>	<b>215</b>	<b>2,356</b>

In 2009, the total number of postgraduate students is 163 (Table 1). Comparing this number towards undergraduate's number which is 122, the ratio is almost inline with the university's requirement of 1:2 postgraduate to undergraduate students. Beside that, currently, there are about 134 foreign students enrolled in the various postgraduate programmes (Figure 1).

**Figure 1: Total Enrolment of Postgraduate Students as at 31 December 2009**



**Figure 1: Total Enrolment of Postgraduate Students as at 31 December 2009**



**Figure 2: Total Enrolment of International Postgraduate Students in the Various Programmes in the 2009/2010 Academic Session**

## Graduation

A total of 784 students graduated from the Master programme from 1999 to 2009 (Table 2)

**Table 2: Total Number of Postgraduate Students Graduating from 1999 to 2009**

Program	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Total
Master of Computer Science	5	23	13	27	20	23	28	29	30	21	30	243
Master of Software Engineering	8	9	5	21	13	23	18	31	46	23	23	220
Master of Information Technology	-	2	3	1	6	9	11	13	26	17	41	129
Master of Library & Information Sc	-	-	-	42	58	31	37	46	23	27	17	281
Doctor of Philosophy	-	1	1	2	0	3	2	3	4	0	14	16
<b>Total</b>	<b>13</b>	<b>35</b>	<b>22</b>	<b>93</b>	<b>97</b>	<b>89</b>	<b>96</b>	<b>122</b>	<b>129</b>	<b>88</b>	<b>125</b>	<b>784</b>

## Performance

In each convocation ceremony, the faculty has successfully produced postgraduate students with excellence achievement (Table 3)

**Table 3: Students Graduating with Excellence Achievement in 2009**

No	Name	Country	Programme
1	Maawya Mohammed Sidahmed Mohammed (Sudan)(LC) *	SUDAN	MIT
2	Tan Yaw Kuen (LC)	MALAYSIA	MIT
3	Chin Shee Hor	MALAYSIA	MLIS
4	Cow Dick Mun	MALAYSIA	MLIS

## Thesis and Dissertations Submitted in 2009

No	Name	Program	Title
1.	Ibrahim Hammed Kalgan Alighieri	MCS	Critical Success Factors for an e-Tourism Services Implementation Initiative
2.	Adel Lasagna	MCS	Evaluation of Credit Risk Using Evolutionary Fuzzy Logic Scheme
3.	Nor Mazlizzah Seet Binti Abdullah	MCS	Knowledge Sharing in Malaysian Armed Forces Pay Directorate Through a Knowledge Management System
4.	Alagu Rathina Bairavi	MCS	Content based Image Retrieval of Blood Cells based on Colour
5.	Jothi Prakash a/l Murugan	MCS	Implementation of Secure Medical Record Using Smart Card Technology
6.	Seetha Devi a/p Govindasamy	MCS	Dynamic Data Caching for Web Services with JINI Technology
7.	Suzana Binti Kassim	MCS	Applying Agile Approach for the Development of Web-based Prayers Guide
8.	Noor Widasuria Binti Abu Bakar	MCS	A Visualization Tool for Requirements Specification
9.	Yap Lah Ghee @ Yap Lay Ghee	MCS	The Development of Mobile-Learning Content Management Tool in Hypermarket Storewide Environment
10.	Marina Binti Mansor	MCS	A Web-based Course and Teaching Evaluation System : An Open Source Approach
11.	Gan See Leng	MCS	Managing Departmental Knowledge Through an Open Source E-Portal
12.	Murugan a/l Thangavelu	MCS	Combating Fraud and Theft Threats at Host Level Using Intrusion Prevention System
13.	Rekha Nair a/p C Gamgadharan Nair	MCS	Desktop and Intranet-based Searching, Downloading and Monitoring Tool
14.	Lai Hooi Li @ Lee Hooi Li	MCS	Cued Recall Graphical Password System Resistant to Shoulder Surfing
15.	Philip Yeo Chin Poh	MCS	Persistency for Web-based Feed Reader
16.	Lai Ngan Kuen	MCS	Mobile Messaging Using Public Key Infrastructure : M-PKI
17.	Lutfiah Binti Mukhtar	MCS	The Development of Knowledge Management Portal for Small Medium Enterprises in Malaysia
18.	Yu May Leen	MCS	e-Balanced Scorecard System for Performance Planning and Management of Lecturers in Higher Education Institutions
19.	Ahmed Helmi Bin Mohd Isa	MCS	Automated Statistical Based Worm Discovery Using Packet Frequency Burst Detection

20.	Lee Jen Funn	MCS	Reducing Handoff Delay in WLAN Using Selective Proactive Context Caching
21.	Mohd Al-Hafiz Bin Ahmad	MCS	Pembinaan Perisian Pemeriksaan dan Pemantauan Kerja-Kerja Penyenggaraan Bangunan
22.	Soo Hsaoi Pei	MCS	Individual Performance Planning and Measurement for Academicians Through the Development of e-Balanced Scorecard (e-BSC)
23.	Ahmed Riza	MCS	Improving QoS in WLAN Using Dynamic Weighted Fair Scheduling
24.	Samih Eisa Suliman Abdalla	MCS	A Dynamic Source Routing Protocol for Wireless Mesh Network Using Signal-to-Noise Ratio
25.	Yalda Azarbarzin	MCS	A Framework of Knowledge Portal for Malaysian Public Consultation
26.	He Xiao Dong	MCS	Automated Intrusion Prevention Mechanism in Enhancing Network Security
27.	Aws Khaled Mohammad-Said Hassan	MCS	Enhancing Handoff Management in Mobile IPv6
28.	Amir Shareghi Najar	MCS	The Application of Service-Oriented Architecture in e-Complaint System
29.	Mohammed Mozammel Hoque	MCS	An Information System Planning Framework for E-governance in Bangladesh
30.	Aos A. Z. Ansaef	MCS	Securing Cover-file of Hidden Data Using Statistical Technique and AES Encryption Algorithm
31.	Eizan Azira Binti Mat Sharif	MIT	"EZWAY : A Wap Application For GPRS Users"
32.	Hoda Sayyahi	MIT	An Application of Fuzzy Case Based Reasoning for Poison Classification
33.	Narges Mahyar	MIT	Implementation Of Creative-Pad: A New Creativity Support Tool
34.	Kevin Wan Utap Anyi	MLIS	Single Journal Study Of Malaysian Journal Of Computer Science : A Bibliometric Approach
35.	Marlini	MLIS	Penggunaan Internet Dalam Pencapaian Maklumat Di Kalangan Pelajar-Pelajar Indonesia Di Universiti Malaya
36.	Ogbonnaya Chukwudi Ogbonnaya	MLIS	The Use Of Electronic Information Services By New International Students At The University Of Malaya

37.	Ruslina Binti Ahmad	MLIS	Barriers And Facilitators In The Provision Of School Library Services For Inclusive Education
38.	Afzal Hussain	MSE	Development Of A Web-Based System To Analyse The Emotional, Mental And Physical (Emp) Health Conditions Of Users
39.	Ainie Hayati Binti Noruzman	MSE	Cetls: A Collaborative Learning System To Support Students Group Activities Using Think-Pair-Share Technique
40.	Ali Sarvghad Batmoghaddam	MSE	Dynamic Display Of Text Using Lexical Chains
41.	Busyairah Binti Syd Ali	MSE	Crosscutting Concern Identification At The Requirements Level Using Nlp
42.	Fereshteh Soltani Zamani	MSE	Facial Emotion Detection Using Supervised Neural Networks
43.	Khalil Ibrahim Khalil Shaat	MSE	Development Of A Portal To Manage The Activities Of A Research Centre
44.	Lam Woon Yee	MSE	A Metrics Tool For Requirements Specification Based On Use Case Diagram
45.	Lim Mei Yen	MSE	Myslang - An Electronic Malaysian Sign Language Dictionary
46.	Lin Guanjing	MSE	Search Engine System With Statistical Result Analyzer
47.	Maryam Zakeryfar	MSE	The Design Of Web-Based Medical Image System Using Attribute-Driven-Design (Add) Method
48.	Mehrnaz Kazemi Bavani	MSE	A Questionnaire Support Tool For Using Persona Technique
49.	Mohammad Reza Zare	MSE	Content-Based Image Retrieval For Blood Cell Images
50.	Mohammed Mohsen A Alharthi	MSE	Visualizing Requirements Negotiation Using Zest Algorithm In Groupware
51.	Muhammad Haroon	MSE	Empha-An Emotional, Mental And Physical Health Analyser
52.	Muhannad Nasser Younis Al Naabi	MSE	Detecting Emotions In Arabic Speech Using Hidden Markov Models
53.	Nik Azlina Binti Nik Mahmood @ Nik Ahmad	MSE	Collaborative Teaching Environment System Using Think-Pair-Share Technique

54.	Nor Azlina Binti Mohd Azmeir	MSE	Scenario-Based Management Tool Isolated Digit Speech Recognition In Malay Language Using Neuro-Fuzzy Approach
55.	Reem Sabah Ahmed	MSE	Isolated Digit Speech Recognition In Malay Language Using Neuro-Fuzzy Approach
56.	Somasundaram Athappan	MSE	A Lightweight Tool For Project Monitoring Using Earned Value Management
57.	Wael M K Fares	MSE	Design Patterns Detection Tool
58.	Wei Fuguo	MSE	Objects-To-Multivalued Database Mapping For Facilitating Multivalued Database Applications Development
59.	Yong Yik Loong	MSE	3d-Sign-A Computer-Aided Learning Package For Malaysian Sign Language Developed Using 3d Computer Graphics And Animation
60.	Zainuddin Bin Yunus	MSE	Requirements Development Using Round Robin
61.	Ahmed Mueen (WHA020010)	PHD	Multi-Level Automatic Medical Image Annotation
62.	Akcell Chii Chung Chiang (WHA050012)	PHD	Integrating Cognitive Agents For Problem-Based Learning in an Information Technology Environment
63.	Azlina Bt Ahmad (WHA020009)	PHD	A Computer Learning Environment For Fraction Word Problems On Cognitive-Communicative Model
64.	Bahram Sadeghi (Canadian)(WHA060002)	PHD	An Integrated Approach For Face Recognition
65.	Hajar Mat Jani (WHA030005)	PHD	A Hybrid Framework Documentation Approach for Effective Use Of Object-Oriented Application Framework Documentation
66.	Mohammed Azlan Bin Mohamed Iqbal (WHA040015)	PHD	A Discrete Computational Aesthetics Model For a Zero-Sum Perfect Information Game
67.	Oras Fadel Baker (IRAQ) (WHA020001)	PHD	Applications Of Soft Computing Techniques in the Prediction Of Survival In Cancer
68.	Rohiza Bt Ahmad (WHA030019)	PHD	A Generic Database Querying System WAP-Enabled Mobile Phones
69.	Rosma Binti Mohd Dom (WHA040021)	PHD	A Fuzzy Regression Model For The Prediction Of Oral Cancer Susceptibility
70.	Wan Ab. Kadir Wan Dollah (WHA030013)	PHD	Determining The Effectiveness Of Digital Reference Services In Selected Academic Libraries

71.	Wee Mee Chin (WHAQ0000002)	PHD	Computer-Managed Instruction (CMI)-Based Tool To Support Information Systems Instructional Processes
72.	Zarinah Mohd Kasirun (WHA99003)	PHD	Fokus Group Discussion-supported Approach To Requirements Elicitation For Courseware Development
73.	Dalbir Singh A/L Valvir Singh (WHA040016)	PHD	A Hybrid Interaction Architecture Telematicsystem
74.	Peterseon @ Robinson A/L J Samuel (WHA030018)	PHD	ICT Integration In Enhancing Teaching And Learning

## 7. ACADEMIC STAFF STATISTICS

The Faculty of Computer Science & Information Technology (FCSIT) was established in 1994. Since its inception, the Faculty has expanded in its teaching and educational curriculum. Academically, it started with 12 teaching staff and 189 students headed by Prof. Dato' Ir. Dr. Mashkuri Hj. Yaacob as the Dean. Somehow in 1999, the faculty has undergone a tremendous change and it was considerable expansion of the faculty's activities.

Now, the faculty has a total of 69 teaching staff and 10 visiting plus contract lecturers. There are 6 Professors, 9 Associate Professors, 17 senior lecturers and 36 lecturers. Besides these, there are 29 lecturers whose were on their Ph.D study leave. The faculty has also recruited 5 tutors under the lecturer trainee scheme, who are enrolled in postgraduate Masters and Ph.D programmes at local and foreign universities. It is also supported by 35 non-academic staff that is categorized into 2 groups, which are 19 general support staff and 16 technical staff.

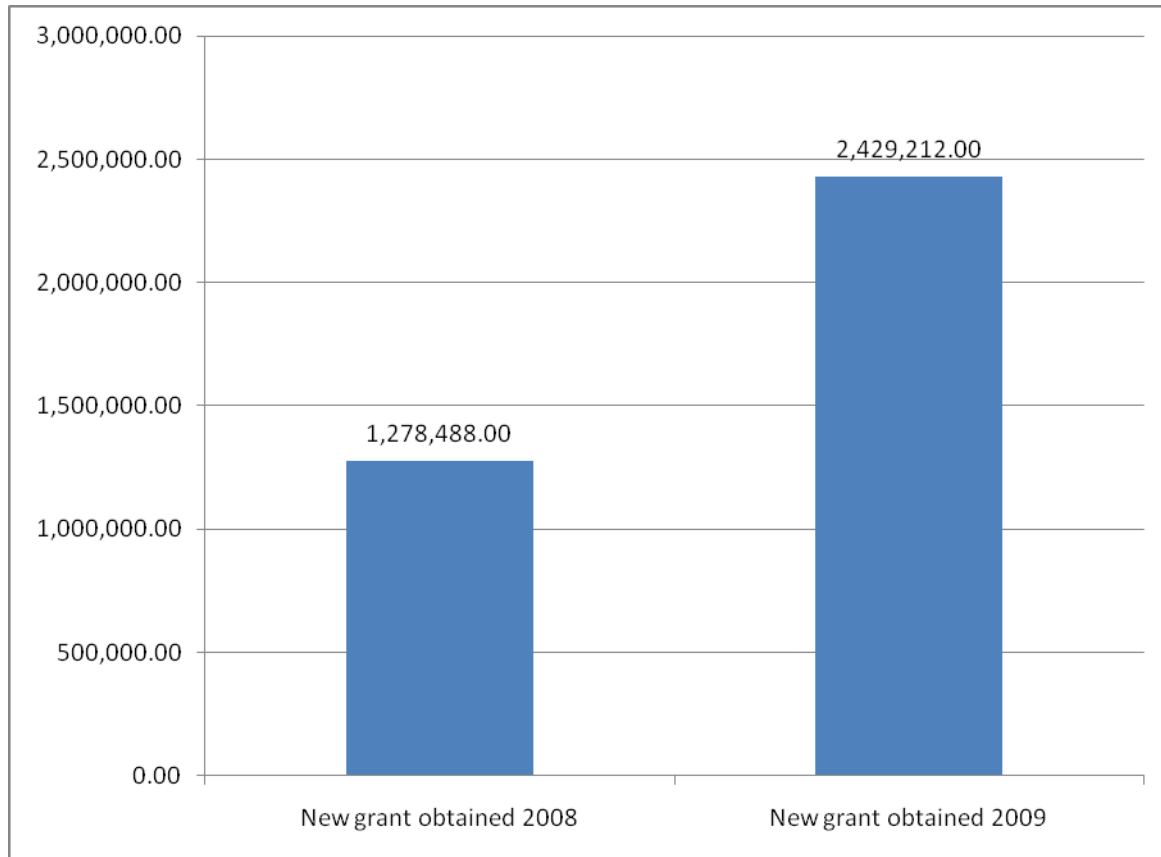
## 8. RESEARCH

### Research Grants

#### Faculty of Computer Science and Information Technology Research Grant (2009)

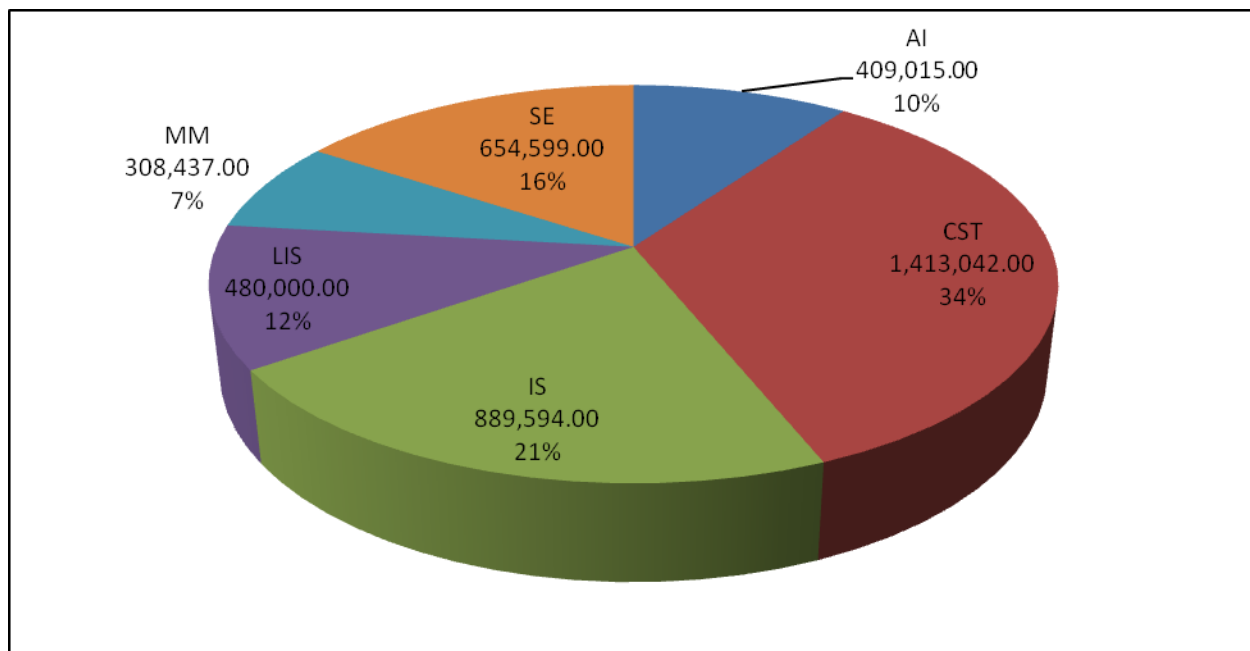
New grant obtained 2008: RM 1,278,488.00

New grant obtained 2009: RM 2,429,212.00



#### Research Grant per Department/Unit: (Active Research Grants)

Department of Artificial Intelligence (AI)	409,015.00
Department of Computer System & Technology (CST)	1,413,042.00
Department of Information Science (IS)	889,594.00
Department of Software Engineering (SE)	654,599.00
Library & Information Science Unit (LIS)	480,000.00
Multimedia Unit (MM)	308,437.00
<b>Total</b>	<b>4,154,687.00</b>



## Research Areas

No	Agency Status	Source of Funding	Researcher	Title of Research Project	Dep t.	Amount (RM)
1	UM	UMRG	Dr. Ng Liang Shing	Novel Computer Architecture based on Processor-Memory Cell	AI	39,000.00
2	UM	PJP	Dr. Rohana Binti Mahmud	Multi-agent Consultation Systems for Obesity Related Problem	AI	30,600.00
3	UM	UMRG	Dr. Rohana Binti Mahmud	Text Understanding through revealed discourse structure	AI	71,000.00
4	UM	PJP	Professor Dr. Mohd Sapiyan Bin Baba	Reducing Cognitive Load In Programming With Visualization Techniques	AI	60,000.00
5	Government	FRGS	Professor Dr. Mohd Sapiyan Bin Baba	Restructuring The Unstructured Biologists' databases	AI	40,000.00
6	UM	UMRG	Assoc Prof Datin Dr. Sameem Binti Abdul Kareem	The Application of AI Techniques in Oral Cancer Prognosis Based on Clinical and Genomic Markers	AI	75,415.00
7	Government	FRGS	Dr. Abdullah Bin Gani	Cybernetic Approach To Self-Regulated Network Resource Management Using Reinforcement Learning	CST	110,000.00
8	UM	UMRG	Dr. Abdullah Bin	Modified VSM Approach to Self-Regulated	CST	75,000.00

			Gani	Networks		
9	UM	UMRG	Dr. Miss Laiha Binti Mat Kiah	An implementation of secure group communication	CST	62,000.00
10	UM	PJP	Dr. Miss Laiha Binti Mat Kiah	Secure Routing Protocols for Large Mobile Ad-Hoc Networks	CST	41,750.00
11	UM	PJP	Mr Ang Tan Fong	Efficient Task Dispatching in Grid Environment	CST	30,500.00
12	Government	Science Fund	Mr Ang Tan Fong	Enhancement of Classic Heterogeneous Scheduling Algorithms in Grid Environments	CST	143,200.00
13	UM	PJP	Mr Mohd Yamani Idna Bin Idris	Automated Vehicle Guidance for Parking Systems in WSN Environment	CST	57,500.00
14	Government	FRGS	Mr Mohd Yamani Idna Bin Idris	High Speed Co-Processor Design for Intelligent Emergency Vehicle Pre-emption System Using Image Processing & Shortest Path Route Algorithm (FP092/2007C & FR191/2007A)	CST	130,000.00
15	Government	ScienceFund	Mr Nor Badrul Anuar Bin Juma'at	SMS/MMS Encryption For Secure Mobile Communication Using Public Key Infrastructure : M-PKI	CST	186,200.00
16	UM	UMRG	Mr Por Lip Yee @ Por Khoon Sun	Information hiding: A New Approach On Manipulation Of White Spaces In Text Steganography Using Dynamic Text Generator	CST	51,400.00
17	Government	ScienceFund	Mr Zaidi Bin Razak	Designing A Dedicated Hardware Of Real-Time Speech-To-Text Engine For Jawi Character In Supporting jQAF Learning Module Using DWT Coding	CST	74,800.00
18	UM	PJP	Mr Zaidi Bin Razak	Implementing An FPGA As A Pipelining Dot_product Platform	CST	63,692.00
19	Government	PJP	Associate Prof Dr. Ling Teck Chaw	Graph Partitioning In Computational Grids	CST	68,000.00
20	UM	UMRG	Associate Prof Dr. Phang Keat	Knowledge-based resource discovery in distributed environment - mapping unstructured query to structured web resources	CST	79,000.00
21	Government	Science Fund	Associate Prof Dr. Phang Keat	Quality of Service in Mobile Ad-hoc Network	CST	240,000.00
22	Local	Industrial	Dr. Teh Ying Wah	Design and Development of Collaborative Workflow and Data Warehouse for Lean Production in a Repair and Overhaul Industry	IS	221,200.00
23	Government	ScienceFund	Mr Mustaffa Kamal Bin Mohd Nor	Development of a river basin network system modelling with GIS application for water quality monitoring. (01-01-03-SF0231)	IS	198,500.00
24	UM	UMRG	Mr Mustaffa Kamal	Pembangunan Model Diskriptif Sistem	IS	47,550.00

			Bin Mohd Nor	Penyampaian perkhidmatan Dan Maklumat Awam Berasaskan Web (Ekhidmat) Bagi Pejabat Pendidikan Daerah (PPD)		
25	Government	FRGS	Mr Mustaffa Kamal Bin Mohd Nor	Pembangunan RangkaKerja Perancangan Strategik Teknologi Maklumat dan Indikator Penilaian Prestasi (KPI) untuk Pelaksanaan ITSP (TT001-2006)- UKM	IS	28,444.00
26	Government	FRGS	Associate Prof Salimah Mokhtar Binti	A Framework for Service-Oriented Information System: Towards A Transparent Public Delivery System	IS	50,000.00
27	Government	ScienceFund	Associate Prof Salimah Mokhtar Binti	Development of a Computer-Supported Active Learning System for Blended Learning Environment	IS	176,100.00
28	UM	UMRG	Mrs Fariza Hanum Md Nasaruddin	Design & Development of Database for Maxillofacial and Craniofacial Data	IS	38,000.00
29	Government	FRGS	Mrs Maizatul Akmar Binti Ismail	Expert and Research Trend Detection in Institutional Repository	IS	110,000.00
30	UM	PJP	Mrs Norjihan Abdul Ghani Binti	Access Control Data Privacy in Hippocratic Database	IS	19,800.00
31	Government	ScienceFund	Professor Dr. Zainab Awang Ngah Binti	Digital libraries of Malay Manuscripts	LIS	246,000.00
32	Government	FRGS	Professor Dr. Zainab Awang Ngah Binti	MyAIS, Malaysian Abstracting and Indexing System	LIS	75,300.00
33	UM	UMRG	Professor Dr. Zainab Awang Ngah Binti	Soft and Empowering Approach to Malay Manuscript Instruction and Learning	LIS	70,100.00
34	UM	UMRG	Associate Prof Dr. Abrizah Abdullah Binti	A Model Of Facilitating On Institutional Repository Implementation And Contribution: The Case Of Academic Libraries	LIS	62,000.00
35	UM	PJP	Mrs Kiran Kaur A/P Gurmit Singh	Assessing The Relationship Between Service Quality, Customer Satisfaction And Loyalty In Academic Libraries	LIS	26,600.00
36	UM	UMRG	Dr. Nor Aniza Abdullah Binti	Authoring A Reusable Educational Multimedia Game	MM	46,200.00
37	UM	PJP	Mrs Mas Idayu Md Sabri Binti	Mobile to Server Face Recognition	MM	53,500.00
38	Government	Science Fund	Professor Dr David Ngo Chek Ling	Aesthetic Visualization For Learning Science In 3d Interactive And Immersive Environment	MM	159,337.00
39	UM	UMRG	Professor Dr David Ngo Chek Ling	Aesthetics Of Human-Computer Interaction In E-Learning Environments	MM	49,400.00

40	Government	PJP	Dr. Chiew Kian Thiam	A Component-Based Web Page Reengineering Framework	SE	42,900.00
41	UM	PJP	Dr. Rodina Ahmad Binti	Implementation of Capability Maturing Model Integration (CMM-I) Framework In Malaysia,	SE	39,800.00
42	UM	UMRG	Dr. Rodina Ahmad Binti	Viable Requirements Prioritization	SE	48,800.00
43	UM	UMRG	Dr. Zarinah Mohd Kasirun Binti	Making tacit knowledge accessible through requirements elicitation tool	SE	46,700.00
44	Government	FRGS	Dr. Zarinah Mohd Kasirun Binti	Requirements elicitation using focus group discussion (FGD) Technique and aspect-oriented requirements engineering	SE	50,000.00
45	UM	UMRG	Mr Mohd Hairul Nizam Bin Md Nasir	Multi Agent-Based Cost Estimation & Performance Evaluation Tool for Personal Software Process (PSP),	SE	50,490.00
46	UM	UMRG	Professor Dr. Lee Sai Peck	Design Patterns Orchestration and Adaptation to Facilitating Software Reuse	SE	42,000.00
47	UM	PJP	Professor Dr. Lee Sai Peck	Metrics for Object-Oriented Systems and Components	SE	41,800.00
48	UM	PJP	Associate Prof Dr. Ow Siew Hock	Development of A Computer-Aided Handwriting Analysis System for the Detection of Dyslexia in Children	SE	33,000.00
49	UM	UM	Associate Prof Dr. Ow Siew Hock	E-SCRAPBOOK 2.0: A System for Gathering, Managing, Extending and Publishing Web Contents	SE	46,509.00
50	Government	AKEPT	Associate Prof Dr. Ow Siew Hock	Investigation on the Leadership Styles of Top Management in Academia Using the Managerial Grid Model	SE	50,000.00
51	Government	FRGS	Associate Prof Raja Noor Ainon Zabariah Binti Raja Zainal Abidin	An Evolutionary-Neuro-Fuzzy Methodology for Predictive Modeling and Data Analysis	SE	80,000.00
52	UM	UMRG	Associate Prof Raja Noor Ainon Zabariah Binti Raja Zainal Abidin	HMM-Based Speech Synthesis and Recognition for Malay and Arabic Languages	SE	56,000.00
53	UM	PJP	Mrs Raja Jamilah Binti Raja Yusof	Visualization of Al-Quran	SE	26,600.00
<b>Total of Amount</b>						<b>4,154,687.00</b>

### Student Research Grant (2009)

No	Name	Title	Dpt	Total
1.	BASSAM ALI QASEM AL-QATAB	ARABIC SPEECH RECOGNITION USING HIDDEN MARKOV MODEL TOOLKIT	SE	7,150.00
2.	HUSSEIN YOUSEF ALI	A SUPPORT TOOL FOR REQUIREMENT CHECKING USING LINGUISTIC ENGINEERING TECHNIQUE	SE	1,800.00
3.	IMAN ATTARZADEH	A HEURISTIC PROJECT PLANNING AND SCHEDULING TECHNIQUE FOR SOFTWARE PROJECT MANAGEMENT	SE	9,350.00
4.	MUMTAZ BEGUM BINTI PEER MUSTAFA	AUTOMATIC EMOTIONS GENERATOR FOR A MALAY LANGUAGE USING HMM-BASED SPEECH SYNTHESIS	SE	7,090.00
5.	OUDELHA MOURAD	RECOGNITION OF HUMAN SPEECH PHONEMENS USING HYBRID GA-HMM APPROACH	SE	5,400.00
6.	ALIREZA JALALI	BIOLOGICALLY INSPIRED ROBOTS IN UNSTRUCTURED ENVIRONMENT	AI	3,000.00
7.	ELEDO ONYEMA CELESTINE	DIGITAL GOLD CURRENCY	AI	8,250.00
8.	HADI SABOOHI	WORLD ALTERING SEMANTIC WEB SERVICES EXPRESSING LANGUAGE	AI	10,500.00
9.	HAYAN TAREQ	AN AUTOMATED METHOD FOR ACUTE LEUKEMIA DIAGNOSIS AND CLASSIFICATION USING PERIPHERAL BLOOD MICROSCOPE IMAGE	AI	2,000.00
10.	LEILA HADDADI	E-COMMERCE IN DIGITAL GOLD CURRENCY	AI	8,300.00
11.	TIRAD MOHAMMED AREF ALMALAHMEH	BIOPHYSICAL NEURAL NETWORKS UNDERLYING DIRECTIONAL SELECTIVITY TO MOTION	AI	5,000.00
12.	SINAN A NAJI	FACE DETECTION BIOMETRIC SYSTEM IN COLORED IMAGES	AI	8,000.00
13.	ALIREZA RIASATI	A WEB -BASED SYSTEM FOR TEACHING IELTS LISTENING SUBTEST	IS	7,500.00
14.	AMINEH AMINI	ADAPTIVE DENSITY-BASED ALGORITHMS FOR DATA STREAM MINING	IS	5,100.00
15.	AZAH ANIR BINTI NORMAN	INFORMATION SYSTEMS SECURITY MANAGEMENT MATURITY IN E-COMMERCE	IS	5,100.00
16.	CHRISTINA VINCENT	PREDICTING TREATMENT OUTCOMES IN HIV/AIDS PATIENTS USING DATA MINING TECHNIQUES	IS	3,700.00
17.	EHSAN	CUSTOMER SATISFACTION ASSESSMENT SYSTEM FOR MALAYSIAN SMALL MEDIUM ENTERPRISE CONSTRUCTION INDUSTRY	IS	6,600.00
18.	FATIMEH LAGZIAN	NETWORKING AND RESOURCE SHARING AMONG DIGITAL LIBRARIES IN DEVELOPING COUNTRIES	IS	5,800.00
19.	HAFIZ AAMIR RASUL	THE ROLE OF THE ACADEMIC LIBRARIES IN FACILITATING RESEARCH: PERCEPTIONS OF POSTGRADUATE STUDENTS	IS	4,200.00
20.	HAJAR SAFAHIEH	INFORMATION TECHNOLOGY ACCEPTANCE AND	IS	7,050.00

		USAGE IN ACADEMIC LIBRARIES		
21.	HALIDA BINTI YU	HOW TEACHERS AND TEACHER LIBRARIAN PERCEIVE, ENGAGE IN AND VIEW INFORMATION LITERACY IN PROJECT BASED LEARNING	IS	8,300.00
22.	KALAIMAGAL RAMAKRISHNAN	KMS AS A TOOL TO REENGINEER CURRICULUM	IS	4,700.00
23.	MAIDABINO ABASHE ATIKU	ASSESSING COLLECTION SECURITY GOVERNANCE IN NIGERIAN UNIVERSITY LIBRARIES USING INFORMATION SECURITY GOVERNANCE FRAMEWORK	IS	5,700.00
24.	MARYAM ALSADAT DERAKHSHAM	PERCEPTIONS OF ACADEMICS ON INFORMATION LITERACY AND ITS INTEGRATION INTO THE CURRICULUM	IS	4,800.00
25.	MOHAMMADAMIN ERFANMANESH	THE EFFECTIVENESS OF INFORMATION SEARCH SKILLS INSTRUCTION ON REDUCING LIBRARY RESEARCH ANXIETY AMONG IRANIAN GRADUATE STUDENTS	IS	5,600.00
26.	MAHATHIR BIN MAHFORDS	A WEB BASED SYSTEM FOR RESEARCH OF SUPERVISION	IS	7,850.00
27.	MAHMOUD REZA SAYBANI	IMPROVING PRODUCTIVITY OF AN OIL REFINERY USING DATA MINING AND FUZZY LOGIC	IS	2,100.00
28.	MARJAN MANSOURVAR	FSKTM WEB PORTAL	IS	6,700.00
29.	NAWZAT S AHMED	REAL TIME PLANNING AND CONTROL AGENT-BASED RESEARCH AND DEVELOPMENT FOR FRACTAL HOSPITAL	IS	4,500.00
30.	NOR LIYANA BINTI MOHD SHUIB	LEARNING SUPPORT TOOLS IN DIGITAL LIBRARY COLLECTION FOR COMPUTER SCIENCE STUDENTS	IS	8,900.00
31.	TAN SHYH MEE	AN ASSESSMENT OF INFORMATION LITERACY COMPETENCIES AMONG SECONDARY SCHOOL LIBRARY MEDIA TEACHERS	IS	6,200.00
32.	TEY SIEW KEE	E-MATHEMATICS FOR PMR	IS	9,550.00
33.	TOO WEI CHIN	E-SEJARAH FOR PMR (ESPMR)	IS	9,350.00
34.	YEOH KIM HONG	INFORMATION NEEDS AND SEEKING BEHAVIOR OF CANCER PATIENTS	IS	6,150.00
35.	ZAHIDAH BINTI ZULKIFLI	TRANSLITERATION TOOL ENVIRONMENT FOR MALAY MANUSCRIPT RESEARCHERS	IS	6,000.00
36.	ADDY MAJED ABDALKAREM ALQURA'AN	PUBLIC KEY INFRASTRUCTURE FOR SECURE MOBILE MESSAGIN USING ELLIPTIC CURVE CRYPTOSYSTEM	CST	1,430.00
37.	CHEE KOK ONN	INFORMATION HIDING A NOVEL APPROACH IN TEXT STEGANOGRAPHY	CST	5,980.00
38.	KIANOUSH FARHAT	MULTI GRID BACKGROUND PASS-GO	CST	2,700.00
39.	SAMANEH FARMAND	IMPROVING GRAPHICAL PASSWORD RESISTANT TO SHOULDER-SURFING USING 4-WAY RECALL-BASED SEQUENCE REPRODUCTION (RBSR)4	CST	1,400.00
40.	Faridah binti Sappar	Motivating Human Cognitive Thinking: Preliminary Validation Biofeedback Using EEG	A AI	5,050.00

41.	Mohd Amin bin Mohd Yunus	Semantic Speech Translation and Retrieval With Visualization	AI	5,050.00
42.	Rasoul Samad Zadeh Kaljahi	Shallow Semantic Persing Using Semi Supervised Learning	AI	3,400.00
43.	Syed Hamid Talebian	An Algorithm for View Selection Problem	AI	7,850.00
44.	Khaled MA Ismail	OLPC: Interface Design Issues For Arabic And Jawi Characters For Kids in Malaysia	SE	2,640.00
45.	Mohammad Abd Al Rahman Mahmoud Abushariah	Large Vocabulary Continuous Speech Recognition (LVCSR) For Arabic Language	SE	6,350.00
46.	Noureldin Abbaker Zakria Aden	Resource Planning Using Requirement Engineering	SE	2,610.00
47.	Seyed Alireza Shahrestani	Knowledge Discovery For Botnet Traffic Direction Via Visualization And Data Mining	SE	3,800.00
48.	Shahibullah Ithnin	Requirements Engineering Implementation For Learning Software Organization	SE	3,350.00
49.	Tee Keok Kwee	Student Information Management System For National Type Schools In Malaysia: Implementation And Utilization	IS	2,170.00
50.	Babak Daghighi	Group Key Management For Secure Group Communication In Wireless Environment	CST	5,800.00
51.	Chong Sin Ni	SLA-aware Resouces Management & Negotiation Mechanism to improve Qos in Grib Computing	CST	4,300.00
52.	Daryous Naghneh Abbaspour	Establishing The Key And The Certificate Management For Mobile Message Encryption System	CST	4,450.00
53.	Liu Qiang	Smartt Stook Trading System fof KLSE Iomposite Indro by Ecog Nearal Network Technical Indicator	CST	4,950.00
54.	Hazhir Hajian	n_ Captch.New Proposal for SUS Anti-spam Filten	CST	3,900.00
55.	May Zin Oo	Effcient Data Transfer Protocol for Wirelee Ad Hoc Network	CST	1,300.00
56.	Wong Ming Tat	Enhancing Network Simulator in Multi-core environment	CST	3,900.00
57.	Amirseyyedanesh	Evolving Prioritization Requirements In Agile Software Development For Market Driven-Product	SE	4,250.00
58.	Bassam Atieh M Rajabi	Change Management in Business Process Modelling Based On Object Oriented Petri Net	SE	3,200.00
59.	Elham Ebrahimi Alavijeh	A Visual Composition Tool For UML Components	SE	3,000.00
60.	Hazrina binti Hassan	Performance Appraisal And Cost Estimation Tool For Personal Software Process Using Agent-Based Approach	SE	2,950.00
61.	Jamshid Tamouk	Landrover Recognition Using Satellite Image Classification Methods	SE	1,940.00
62.	Mo'azh Zaid Abedalaziz	Evaluating And Redesigning of WAQS User Interface (Adaptive Quiz System)	SE	2,080.00
63.	Nazanin Aminzadeh	Detecting HCI Design Patterns Using UML Class Diagrams	SE	3,000.00
64.	Sheyda	Mobile Requirements Elicitation Tool	SE	7,900.00
65.	Hamed Khanpour	Automatic Notetaking System Based On Cognitive	AI	860.00

		Approach		
66.	Leong Lai Fong	Innovative Biometric Imaging For Secure Login On Smart Phones	AI	6,450.00
67.	Mogeeb Ahmed Ahmed Mosleh	Scaffolding Approach For Automatic Note-Taking	AI	5,200.00
68.	Somayeh Ghanbarzadeh	Development Of A Prototype Personal Digital Assistant-Decision Support System For Improving Student's Comprehension And To Help Producing Better Summarization	AI	1,530.00
69.	Ayad A Yass	Enhance The Parking System In Malaysia Using SSME Approach	IS	2,000.00
70.	Farhatuzzakiyah Ahmad Fakhrizzaki	Preliminary Data Collection On Mass Customization In Malaysian Manufacturing Companies	IS	3,700.00
71.	Hasti Khorasanizadeh	Computer Supported In Reflective Learning	IS	3,100.00
72.	Iddamalgodage Dona Anusha Lakmini Wijayarathne	Modelling A Usable And Accessible Virtual Library Interface For Distance Learners	IS	4,000.00
73.	John Veri	Mining Hidden Or Powerful Knowledge From Large Databases	IS	4,460.00
74.	Mohammed Saiful Islam	Customer Retention In Retail Company Using Data Mining Technique	IS	2,300.00
75.	Muhammad Sukran	Peranan Perpustakaan Sekolah Dalam Mempengaruhi Minat Membaca Di Kalangan Kana-Kanak Pelajar Madrasah Tsanawiyah Al Washliyah 16 Perbaungan, Sumatera Utara, Indonesia	IS	3,900.00
76.	Saeed Reza Aghabozorgi Sahaf Yazdi	Data Mining For Recommender Systems And Web Personalization	IS	4,600.00
77.	Sudirman	Predictive Data Mining Base On Similarity And Clustering Techniques	IS	4,710.00
78.	Chan Siew Yin	Resource-Aware Load Balancing In Parallel Scientific Applications	CST	2,350.00
79.	Hero Modares	Low-Cost Co-Processor Design For Elliptic Curve Cryptography	CST	4,530.00
80.	Liana R M Qabajeh	A Scalable, Distributed And Secure Position-Based Routing Protocol For Ad-Hoc Networks	CST	5,400.00
81.	Mohmd Ali Saleh Abomhara	Implementing Encryption On H.264/AVC Video	CST	5,100.00
82.	Yasser Salem Mohamed Ali	Implementation Of Elliptic Curve Cryptography Using Biometric Features To Enhance Security Services	CST	5,100.00
		<b>TOTAL</b>		<b>397,280.00</b>

**Total Student research grant: RM 397,280.00 (2009)**

## 9. AWARDS

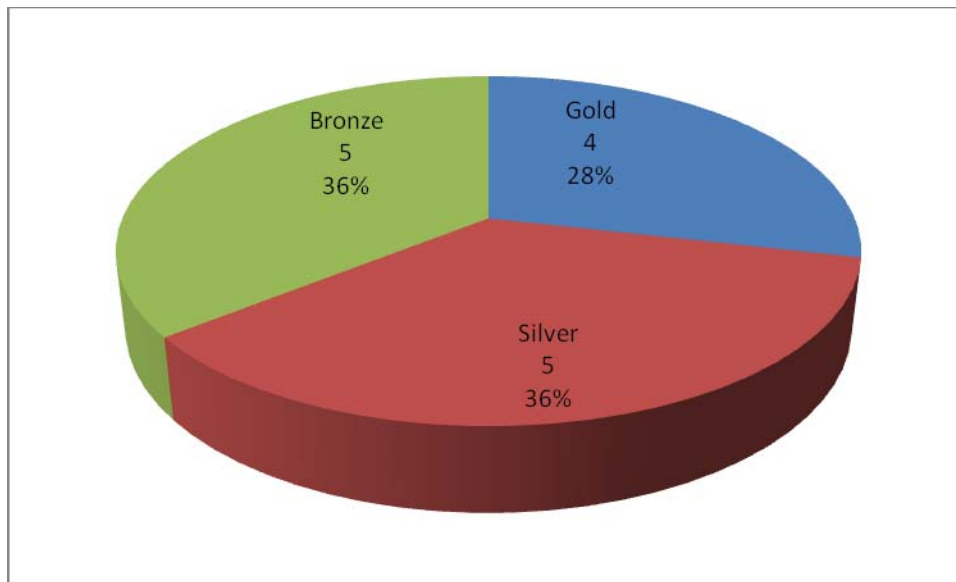
### Excellence Service Awards

A total of thirteen Faculty's staff received the Excellence Service Award and Excellence Service Certificate for their 2008 performance appraisal.

No	Excellence Award
1	Associate Professor Dr Ling Teck Chaw
2	Mohd Hairol Nizam Md Nasir
3	Azrul Bin Ahmad
4	Faridah Binti Mat Yaacob
5	Mohd Izuan Bin Amom
6	Norkhaizura Binti Mohamed Kassim
7	Norhazariah Binti Hussin
8	Pappu a/p Sappani
	<b>Excellence Certificate</b>
9	Professor Dr Siti Salwah Binti Salim
10	Associate Professor Dr Abrizah Binti Abdullah
11	Dr Rodina binti Ahmad
12	Mokhaidah Binti Muhammad
13	Mohd Hairolnezam Bin Kahmis

### International & National Medal Awards

The Faculty participated in a number of international and national exhibitions in the year 2009. Judges were take place during these exhibitions and conferring prizes to the innovation and excellence researchers. Winning four gold medal and five silver and bronze respectively indicates the Faculty was successfully spawning the excellent researchers.



Malaysia Technology Expo 2009 (MTE 2009) 19 - 21 February 2009, PWTC, Kuala Lumpur

No.	Title of Invention/Innovation	Inventors	Award
1.	Mobile Messaging Using Public Key Infrastructure: m-PKI	Nor Badrul Anuar Juma'at Lai Ngan Kuen Omar Zakaria Aliff Syazwan Othman	Gold
2.	Smart Emergency Vehicle Preemption System Based On A-Star Algorithm, FPGA And SIM508 GPS/GSM	Noorzaily Mohamed Noor Mohd Yamani Idna Idris Emran Mohd Tamil Zaidi Razak Moraali Sivalingam	Silver
3.	Improving the Performance of the Authorization Process of a Credit Card System Using Thread-Level Parallelism and Singleton Pattern	Siti Hafizah Ab. Hamid Mohd Hairul Nizam Md. Nasir Hazrina Hassan Noor Hafizah Hassan Wong Yew Ming Shukor Sanim Mohd Fauzi	Silver
4.	Eliminating Scanning Delay In WLANs Using Advanced Neighbours Discovery With Caching	Rosli Salleh Ghaith Al-Rawi Laeth Al-Rawi	Silver
5.	StegoBeta: An Improved Scheme in Data Hiding Using Enhanced LSB Substitution	Por Lip Yee Delina Beh Mei Yin	Bronze

**International Invention, Innovation and Technology Exhibition 2009 (ITEX) 15 - 17 May 2009, KLCC, Kuala Lumpur**

No.	Title of Invention/Innovation	Inventors	Award
1.	WhiteSteg	Por Lip Yee, Chee Kok Onn, Zaidi Razak, Ang Tan Fong, Delina Beh Mei Yin & Ong Sim Ying	Gold
2.	MyAddyXia – A Computer-Aided Diagnosis System to Detect Dyslexia Among Children	Assoc. Prof. Dr. Ow Siew Hock & Teh Kok Wui	Gold
3.	HyPro-E: Hyper-threading Processing Engine	Mohd Hairul Nizam Md. Nasir, Shukor Sanim Mohd Fauzi, Hazrina Hassan & Masliyana Azmi	Silver
4.	MetricSoft	Prof. Dr. Lee Sai Peck & Ervin Loh Chuan Ho	Silver
5.	Smart Emergency Vehicle Preemption (SEVP) System Based on A-Star Algorithm, GPS/GSM and Xilinx Microblaze FPGA.	Mohd Yamani Idna Idris, Moraali Sivalingam, Emran Mohd Tamil, Zaidi Razak, Noorzaily Mohamed Noor & Dr. Rosli Salleh	Bronze
6.	Halal RF-Validator	Azah Anir Norman, Mohd Hairul Nizam Md Nasir, Shukor Sanim Mohd Fauzi, Masliyana Azmi,	Bronze

		Hazrina Hassan & Noor Hafizah Hassan	
7.	Anomaly Activity Detection Framework with Artificial Immune System Approach in Wireless Sensor Network	Emran Bin Mohd Tamil, Lim Boon Keat, Mohd Yamani Idna Idris, Zaidi Razak & Noorzaily Mohamed Noor	Bronze
8.	Mobile to Server Face Recognition	Mas Idayu Md. Sabri & Nurulhuda Ismail	Bronze

**Ekspo Penyelidikan Dan Ciptaan Institusi Pengajian Tinggi Antarabangsa 2009 (PECIPTA 2009) , 8-10 Oct 2009, KLCC, Kuala Lumpur**

No.	Title of Invention/Innovation	Inventors	Award
1.	WhiteSteg	Por Lip Yee	Gold

## 10. PUBLICATIONS

### *ISI indexed Journal Publication Listing*

1. A. Mueen, R. Zainuddin and M. Sapiyan Baba, MIARS: A Medical Image Retrieval System, Journal of Medical Systems, May 2009
2. Zainab, A.N., Abrizah, A. and Hilmi. M.R. 2009. What a Digital Library of Malay Manuscripts Should Support: An Exploratory Needs Analysis. Libri, Vol 59, no 4: 275-289
3. May Leen Yu, Suraya Hamid, Mohamad Taha Ijab and Hsaio Pei Soo (2009). The e-balanced scorecard (e- BSC) for measuring academic staff performance excellence. Higher Education. Vol 57 No 6: 813-828.
4. Suzinor Kamaralzaman and Kiran Kaur. 2009. Quality Management of Reference Services in Malaysian Public University Libraries. International Journal of Libraries and Information Services, 59(2): 104-113. .
5. Zaidi Razak, Khansa Zulkiflee, Noorzaily Mohamed Noor, Rosli Salleh, Mashkuri Yaacob, "Off-line Handwritten Jawi Character Recognition Using Histogram Normalization and Sliding Window Approach For Hardware Implementation" Malaysian Journal of Computer Science, pg 35-43, Vol. 22. No. 1, 2009
6. Kevin Wan Utap Anyi , A.N. Zainab , N.B. Anuar . Bibliometric studies on single journals: a review. Malaysian Journal of Library & information Science, vol .14, no.1 Apr 2009: 17-55.
7. A.N. Zainab, K.W.U. Anyi , N.B. Anuar. A single Journal Study: Malaysian Journal of Computer Science, Malaysian Journal of Computer Science, Vol.22, no.1 Julai 2009:1-18
8. Abrizah, A. 2009. The Cautious Faculty: their Awareness and Attitudes Towards Institutional Repositories. Malaysian Journal of Library & Information Science. Vol 14, no. 2: 17-37
9. [Muhammad Ramzan, Diljit Singh. Status of information technology applications in Pakistani libraries. The Electronic Library. Vol 27 No. 4 pp: 573-587. 2009.](#)
10. Woo Chaw Seng, Jiang Du, Binh Pham. Semi Fragile Watermark with Self Authentication and Self Recovery. Malaysian Journal of Computer Science, pg 64-84, Vol. 22. No. 1, 2009

11. K.K.Phang, T.C.Ling, T.F.Ang. QoS Routing In DiffServ MPLS Networks. *Malaysian Journal of Computer Science*, Vol. 22. No. 2, 2009: 160-173
12. Abrizah, A., Noorhidawati, A., Hilmi, M. R. and Azeana, D. 2009. What do the highly-ranked and accredited LIS programmes inform us about education in digital libraries? *Malaysian Journal of Library and Information Science*, Vol 14, no. 3: 77-94.
13. Liana Khamis Qabajeh, Miss Laiha Mat Kiah & Mohammad Moustafa Qabajeh. 2009. A Scalable and Secure Position- Based Routing Protocol for Ad-Hoc Networks. *Malaysian Journal of Computer Science* Vol. 22, No. 2, Dec 2009: 99-120
14. Mohd Sharif Mohd Saad & A.N. Zainab. 2009. An investigation of information seeking behaviour of Computer Science and Information Technology undergraduates: a qualitative approach. *Malaysian Journal of Library & Information Science*, Vol.14, no.3, Dec 2009: 15-34
15. Maged A. Alyahya, Rodina Ahmad, Sai Peck Lee. Effect of CMMI-Based Software Process Maturity on Software Schedule Estimation. *Malaysian Journal of Computer Science* Vol. 22, No. 2, Dec 2009: 121-137
16. Ram Gopal Raj, S. Abdul-Kareem. Information Dissemination and Storage for Tele-Text Based Conversational Systems' Learning. *Malaysian Journal of Computer Science*, Vol. 22. No. 2, 2009: 138-159

#### **Accepted for publication (ISI indexed journal)**

17. Mohd Hairul Nizam Md. Nasir, Azah Anir Norman, Shukor Sanim Mohd Fauzi & Masliyana Azmi. An RFID-Based Validation System for Halal Food. *The International Arab Journal of Information Technology* (Accepted for Publication).
18. Hazleen Aris and Siti Salwah Salim, State of Component Models' Usage: Justifying the Need for Component Model Selection Framework, *The International Arab Journal of Information Technology* (IAJIT). (In press)
19. Mohammed Mohsen A. Alharthi and Siti Salwah Salim, Zest Based Visualization For Requirements Negotiation, *The International Arab Journal of Information Technology* (IAJIT). (In press)
20. Maged A. Yahya, Rodina Ahmad, Sai Peck Lee. Impact of CMMI-Based Software Process Maturity on COCOMO II s Effort Estimation, *International Arab Journal of Information Technology*. (In press)
21. Adel, L., Raja, N.Ainon. and Teh, Y.W. Credit Scoring Models using Soft Computing Methods: A Survey. *The International Arab Journal of Information Technology*. (in press) .
22. Abdul Kareem, Sameem; Raviraja, S; A Neural Network Prediction on the Survival of Aids, *International Journal of STD & AIDS* (Accepted for Publication).

#### **Non-ISI indexed publications**

1. X. Li, R. Salleh and Omar Zakaria, (2009) "Wireless Spectrum Combination Protocol for 4G Networks", *Journal of Applied Sciences*, Issue 9, No. 2, pp 334-341.
2. X.Li, R. Salleh and Omar Zakaria, (2009), "Mobile Multimedia Control Model for Fire Disaster of City Building", *Journal of Applied Sciences*, Issue 9, No. 2, pp304-311.
3. Hajmoosaei, A., Abdul-Kareem, S., Resolving Semantic Data Schema Heterogeneity on the Web, 2009 World Congress on Computer Science and Information Engineering (CSIE 2009), March 31 to April 2, 2009, Los Angeles/Anaheim, USA.
4. Xichun Li, Abdullah Gani, Rosli Salleh, Omar Zakaria, "The Future of Mobile Wireless Communication Networks", *IEEE International Conference on Communication Software and Networks (ICCSN 2009)*, 27-28 Feb, 2009. Macau.
5. Xichun Li, Rosli Saleh, Abdullah Gani, Omar Zakaria, "Multi-Network Data Path for 5G Mobile

- Multimedia", IEEE International Conference on Communication Software and Networks (ICCSN 2009), 27-28 Feb 2009. Macau.
6. Raja Jamilah Raja Yusof, Khairuddin Hashim. 2009. Improving Usability of HTA Charts. Proceedings of the Second International Conferences on Advances in Computer-Human Interactions, February 1-7, 2009, Cancun, Mexico..
  7. HASHEM SALARZADEH JENATABADI, ALI NOUDOOSTBENI and NORIZAN MOHD YASIN, A mixed method for training ERP systems based on knowledge sharing in Malaysian Small and Medium Enterprise (SMEs), International Conference on Information Management and Engineering (ICIME 2009) 3 - 5, April 2009, Kuala Lumpur , Malaysia ..
  8. Ali Noudoostbeni, Hashem Salarzadeh Jenatabadi And Norizan Mohd Yasin, To Investigate The Success And Failure Factors Of ERP Implementation Within Malaysian Small and Medium Enterprises, ICIME 2009, April 3 - 5, 2009, Kuala Lumpur, Malaysia [Http://Www.Icime.Org](http://www.icime.org).
  9. Lina Yang, Abdullah Gani, Omar Zakaria, Nor Badrul Anuar, Implementing Lightweight Reservation Protocol for Mobile Network Using Crossover Router & Pointer Forwarding Schema. 8th WSEAS Int. Conf. on Signal Processing, Robotics, and Automation, Cambridge, 21-23 Feb 2009.(ISI Indexed).
  10. Qi Han, Abdullah Gani, Nor Badrul Anuar, Omar Zakaria, Improving ACK Reply of DSR Protocol for Mobile Ad Hoc Network. 8th WSEAS Int. Conf. on Signal Processing, Robotics, and Automation. Cambridge, 21-23 Feb 2009.(ISI Indexed).
  11. Mohd Ikhsan Mokhsin and Norizan Mohd Yasin, The Implementation of Wireless Student Attendance System in Examination Procedure, IACSIT-SC 2009.
  12. Ayad Ahmed Yass and Norizan Mohd Yasin, 2009. Using the Concept of Management Information System to Improve an Effusive Intelligent.
  13. Ayad Ahmed Yass, Norizan Mohd Yasin, Bilal Bahaa Zaidan, Aws Alaa Zaidan, 2009. New Design for Intelligent Parking System Using the Principles of Management Information System and Image Detection System.
  14. Iman, A. & Ow, S.H. 2009. Using Enhancement Method to Improve Earned Value Index to Achieve an Accurate Project Time and Cost Estimation. Proceedings of the 2009 International Conference on Future Computer and Communication, 3-5 April 2009, Kuala Lumpur, Malaysia, pp. 421-425..
  15. Iman, A. & Ow, S.H. 2009. A New Forecasting Model to Improve Earned Value Index to Achieve an Accurate Project Time and Cost Estimation. Proceedings of the 2009 International Conference on Information Management and Engineering, 3-5 April 2009, Kuala Lumpur, Malaysia, pp. 317-321..
  16. Abdullah Gani, Lina Yang, Nor Badrul Anuar, Omar Zakaria, Ros Surya Taher, Implementing Lightweight Reservation Protocol for Mobile Network Using Hybrid Schema. WSEAS TRANSACTIONS ON COMPUTERS. Vol 8(3), 2009. (ISI/Scopus indexed) (ISI-Cited Publication).
  17. Zaidi Razak, Nurulhuda Abd Ghani, Emran Mohd Tamil, Mohd Yamani Idna Idris, Noorzaily Mohamed Noor, Rosli Salleh, Mashkuri Yaacob, Mohd. Yakub @ Zulkifli Bin Mohd Yusoff, Off-line Jawi Handwriting Recognition using Hamming Classification, Information Technology Journal, IC-6713-ITJ-ANSI ISSN:1812-5638.
  18. Siti Hafizah Ab. Hamid, Mohd Hairul Nizam Md. Nasir & Hazrina Hassan. 2008. Java Versus .NET: A Comparative Analysis of Performance, Size and Complexity of Credit Card Authorization Systems, Journal of Applied Sciences 9(7):689-697 (**Indexed by Scopus**).
  19. Mohd. Yamani Idna Idris, Hamzah Arof, Emran Mohd. Tamil, Noorzaily Mohammed Noor, Zaidi Razak "Review of Feature Detection Techniques for Simultaneous Localization and Mapping and

System on Chip Approach" Information Technology Journal 2009, ISSN 1812-5623.

20. M. Y. I. Idris, Y. Y. Leng, E. M. Tamil, N. M. Noor, Z. Razak 2009. Car Park System: A Review of Smart Parking System and its Technology. Information Technology Journal, 2009. ISSN 1812-5638.
21. Ismail M.A, Mashkuri Yaacob, Sameem Abdul Kareem & Fariza Hanum Nasaruddin (2008), Assisting Novice Researchers in Utilizing the Web as a Platform for Research: Semantic Approach, WSEAS Transactions on Information Science and Applications, 2(6), pp10, ISSN 1790-0832.
22. M.Y.I. Idris, E.M. Tamil, N.M. Noor, Z. Razak, K.W. Fong "Parking Guidance System Utilizing Wireless Sensor Network and Ultrasonic Sensor" Information Technology Journal 2009, ISSN 1812-5638.
23. M. Y. I. Idris, E. M. Tamil, Z. Razak, N. M. Noor, L. W. Kin 2009. "Smart Parking System using Image Processing Techniques in Wireless Sensor Network Environment". Information Technology Journal, 2009. ISSN 1812-5638.
24. TEH YING WAH, ONG SUAN SIM. 2009. Development of a Data Warehouse for Lymphoma Cancer Diagnosis and Treatment Decision Support. WSEAS TRANSACTIONS ON INFORMATION SCIENCE AND APPLICATIONS..
25. Hazleen Aris And Siti Salwah Salim, Current State Of Component-Oriented Software Development Practice In Malaysia: Towards Identifying Its Potential And Research Areas, Journal Of Computer Science, Vol. 5, No. 1, pg. 39-48, ISSN:1549-3636, Science Publications.
26. Azlina Ahmad, Siti Salwah Salim and Roziati Zainuddin, An Experimental Study on the Effectiveness of MINDA: A Computer-Based Learning Environment for Fractions Word Problems, Eurasia Journal of Mathematics and Technology Education, 2009.
27. Norjihhan Abdul Ghani, Zailani Mohamed Sidek. (2009).Controlling and Disclosing your Personal Information. WSEAS Transaction on Information Science and Applications. 3(6). 397-406. ISSN 1790-0832.
28. Norjihhan Abdul Ghani, Zailani Mohamed Sidek. (2009).Personal Information Privacy protection in E-Commerce. WSEAS Transaction on Information Science and Applications. 3(6). 407-416. ISSN 1790-0832.
29. Fariza Hanum Nasaruddin, Maryam Zakeryfar, Rodina Ahmad, Development of an Online Image Repository System for Cardiac Modeling, WSEAS Transactions on Information Science and Applications, 2(6):211 - 220, February 2009..
30. Kiran, Kaur. 2009. Marketing the Academic Librray on the Web . Library Management, 30 (6/7)..
31. ROSMA MOHD DOM, BASIR ABIDIN, SAMEEM ABDUL KAREEM, ADEEBA KAMARUZAMAN, The Prediction of AIDS Survival: A Data Mining Approach, WSEAS Transactions on Information Science and Applications. Accepted for Publication..
32. Sai Peck Lee, Chuan Ho Loh. 2009. Object-Oriented Design Metrics as Early Quality Indicators of Faulty Classes and Components. ICIC Express Letters -- An International Journal of Research and Surveys (indexed by Ei Compindex, Scopus, INSPEC, etc.).
33. T.F. Ang, W. K. Ng, T.C. Ling, L.Y. Por, C.S. Liew, "A Bandwidth-aware Job Grouping-based Scheduling on Grid Environment", Information Technology Journal, Volume 8 (3), 2009, pp. 372-377. ISSN 1812-5638..
34. Abdullah, N. and Gibb. F. (2009). Students' Attitudes towards E-books in a Scottish Higher

Education Institute: Part 3 - Search and browse tasks. Library Review. vol. 58. Accepted for publication.

35. Abdullah Gani, Xichun Li, Lina Yang, Omar Zakaria, Nor Badrul Anuar (2009), "Multi-Bandwidth Data Path Design for 5G Wireless Mobile Internets", WSEAS Transactions on Information Science & Applications, vol. 6, Issue 2, February 2009, pp 159-168.
36. Nor Badrul Anuar, Lai Ngan Kuen, Omar Zakaria, Abdullah Gani, Ainuddin Wahid Abdul Wahab (2009), "Usability and Performance of Secure Mobile Messaging: M-PKI", WSEAS Transactions on Information Science & Applications, Vol.6, Issue 2, February 2009, pp 179-189.
37. Abdullah Gani, Qi Han, Nor Badrul Anuar, Omar Zakaria (2009), Enhancing DSR Protocol Performance in Mobile Ad Hoc Network Using ACK Reply. WSEAS TRANSACTIONS ON COMMUNICATIONS, Vol 8 (2)(ISI/Scopus indexed) (ISI-Cited Publication).
38. Siew Hock Ow, Muhammad, H. & Afzal, H. Investigation on the Effectiveness of Treatments for Overcoming Emotional, Mental and Physical Health Problems. Global Journal of Health Science. April 2009, 1(1): 39-53..
39. Siti Hafizah Ab. Hamid, Mohd Hairul Nizam Md. Nasir, Wong Yew Ming, Hazrina Hassan. 2009. Improving the Performance of the Authorization Process of a Credit Card System Using Thread-Level Parallelism and Singleton Pattern. Research Journal of Information Technology 1(1):30-40 (**Indexed-Journal**).
40. Mohd Khalit Othman, Norizan Mohd Yasin, Mustaffa Kamal Mohd Nor, ePerkhidmatan: Sistem Pengurusan Dan Penyampaian Perkhidmatan Dan Maklumat Dalam Pendidikan, Seminar Kebangsaan ICT Dalam Pendidikan 2009 : Inovasi Dan Kreativiti Menerusi Ict , 3 4 Februari 2009, Hotel Impiana Casuarina,.
41. Zarinah Mohd Kasirun, Focus Group Discussion-Supported Approach to Requirements Elicitation for Courseware Development, February 2009.
42. Liana Khamis Qabajeh, Miss Laiha Mat Kiah & Mohammad Moustafa Qabajeh. 2009. A Qualitative Comparison of Position-Based Routing Protocols for Ad-Hoc Networks. International Journal of Computer Science and Network Security (IJCSNS) 9(2): 131-140..
43. A.N. Zainab, K. W.U. Anyi & N.B. Annuar. A single journal study: Malaysian Journal of Computer Science. Annals of Library and Information Science, 2009. [accepted for publication].
44. Siew Hock Ow. 2009. User Evaluation of an Electronic Malaysian Sign Language Dictionary: e-Sign Dictionary. Computer and Information Science. May 2009, 2(2): 34-52. (Indexed in CANADIANA and AMICUS).
45. Ang Tan Fong, Ling Teck Chaw, Phang Keat Keong, Por Lip Yee, "Automatic Web Services Deployment", 2009 IEEE World Congress on Computer Science and Information Engineering, Los Angeles, USA, 31 March - 2 April 2009..
46. Chapters in Book: Zhaowen Xing, Le Gruenwald and K. K. Phang, "PMW: a Robust Clustering Algorithm for Mobile Ad-hoc Networks", the book chapter proposal accepted for the Encyclopedia of Next Generation Mobile Networks and Ubiquitous Computing, Editor Samuel Pierre, Information Science Reference Publisher, January 2009..
47. Alicia Y. C. Tang, Rukaini Abdullah, Sharifuddin M. Zain, and Noorsaadah A. Rahman. Generating Qualitative Causal Graph using Modeling Constructs of Qualitative Process Theory for Explaining Organic Chemistry Reactions , International Journal of Information Technology 5:1 2009, pp. 1-

11..

48. Shukor Sanim M.Fauzi, M. Hairul Nizam M. Nasir, Nuraminah R., Kamaruzaman Jusoff, N. Azylia A. Azam, M. Hafiz Ismail. 2009. The Implementation of Software Process Improvement Models. International Review on Computers and Software 4(3) **(Indexed Journal)**.
49. Zarinah M K, Siti Salwah S., Supporting Collaborative Requirements Elicitation USING Focus Group Discussion, International Journal of Software Engineering and Its Applications, vol 3, no. 3, pp 59-70.
50. Norisma Idris, Mohd. Sapiyan Baba and Rukaini Abdullah. A Summary Sentence Decomposition Algorithm for Summarizing Strategies Identification. Journal of Computer and Information Science, Vol. 2, No. 1, pp 200 210, 2009..
51. R.J.R. Yusof, R. Zainuddin, M.S. Baba, Z.M. Yusoff, ♦Visualization Systems Supporting the Reading of Arabic Document for non Arabic Speakers♦, Information Technology Journal, 2009, Vol: 8 Issue: 1, pg: 16-27..
52. R. J. R. Yusof, R. Zainuddin, M.S. Baba and Z.M. Yusoff, T-Test for Visualizing Frequently Used Arabic Words , Journal of Applied Sciences, Vol 9, No. 5, 2009, pp. 988-992.
53. Iman Attarzadeh & Ow, S.H. 2009. Software Development Effort Estimation Based on a New Fuzzy Logic Model. International Journal of Computer Theory and Engineering, 1(4): 473-476, October 2009. (Indexed in INSPEC).

## 11. CONFERENCES/WORKSHOPS/SEMINARS

<i>Date</i>	<i>Seminar, Conferences, Workshops , Courses 2009</i>	<i>Organized by</i>
24 - 25 Mar 2009	Workshop on Soft skills Assessment, Equatorial Bangi	Faculty of Computer Science & Information Technology
27 Mar 2009	Research Seminar	Faculty of Computer Science & Information Technology
10 Aug 2009	Formal Engineering Methods for Software Quality Assurance Workshop	Faculty of Computer Science & Information Technology
7-11 Aug 2009	Formal Engineering Methods for Software Development Workshop	Faculty of Computer Science & Information Technology
7 Aug 2009	Automatic Web Services Deployment	Faculty of Computer Science & Information Technology
2 Oct 2009	Neural Network and Cryptography	Faculty of Computer Science & Information Technology
20 Nov 2009	Cloud Computing	Faculty of Computer Science & Information Technology

17-18 Dec 2009	Information Systems Qualitative Research Workshop, Armada Hotel, Petaling Jaya	Faculty of Computer Science & Information Technology
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