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UPM
UNIVERSITI PUTRA MALAYSIA
BERILMU BERBAKTI



laporan tahunan 2006 annual report

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MatlamatGoals



UPM telah menetapkan lapan (8) matlamat untuk merealisasikan wawasannya. Setiap matlamat yang disasarkan mempunyai objektif khusus, iaitu dalam bentuk yang boleh diukur pencapaiannya. Pencapaian setiap objektif bergantung pada pelaksanaan strategi dan pelan tindakan masing-masing. Kelapan-lapan matlamat tersebut adalah seperti yang berikut:

- Melahirkan graduan yang berkualiti, berdaya saing, dan berupaya untuk terus maju melalui pembelajaran yang berterusan;
- Menjadikan UPM, Universiti yang terkemuka dalam bidang penyelidikan;
- Meningkatkan keupayaan UPM sebagai pusat pengajian dan perkhidmatan pertanian dan biosumber terkemuka di peringkat antarabangsa;
- Memantapkan sistem pengurusan berkualiti yang cekap dan berkesan, telus, dan mesra pelanggan;
- Membangunkan sumber manusia serta persekitaran (ICT) melalui e-Universiti;
- Menjana dan mengurus sumber kewangan Universiti secara cekap dan berkesan; dan
- Meningkatkan kedudukan UPM sebagai Pusat Perkhidmatan Pembangunan Profesional dan Pendidikan Lanjutan.

DASAR KUALITI

Kami, staf Universiti Putra Malaysia beriltizam ke arah kecemerlangan melalui penerapan budaya kualiti dalam pengajaran, penyelidikan, dan perkhidmatan profesional untuk memenuhi ekspektasi pelanggan.

UPM has established eight (8) goal to realize its vision. Each goal has its specific objectives. The achievement of each objective depends on the execution of the respective action plan. The eight (8) goals are as follows:

- To produce quality graduates who are competitive and resilient through lastlong learning;
- To transform UPM into a renowned research university;
- To upgrade UPM as a renowned centre of learning, agricultural and bio-resource services internationally;
- To enhance a quality management system the is effective, efficient, transparent and client-friendly;
- To develop and create excellent human resources and professional enviroment.
- To promote an Information and Communication Technology (ICT) culture through e-University;
- To effectively generate and manage University's Financial Resources; and
- To establish UPM as the Centre of Professional Development Services and Continuing Education.

QUALITY PRINCIPLE

As staff of Universiti Putra Malaysia, we are dedicated to work towards excellence by enculcating a culture that priortises quality in the areas of teaching, research and professional services to fulfil customers' expectations.

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Etika Kerja Work Ethics

TAKRIF

Etika Kerja merupakan prinsip dan panduan tingkah laku yang menjadi pegangan oleh setiap staf Universiti Putra Malaysia yang berlandaskan nilai murni sejagat.

OBJEKTIF

- Menanamkan sifat positif untuk melaksanakan tugas yang diberi serta dapat meningkatkan kualiti perkhidmatan
- Meningkatkan disiplin diri untuk menghasilkan perkhidmatan cemerlang bagi memenuhi kehendak pelanggan dan organisasi
- Memberikan sumbangan positif yang berterusan kepada negara

PRINSIP

Etika Kerja Universiti Putra Malaysia perlu dilaksanakan dan dihayati berdasarkan prinsip yang berikut:

- Niat yang betul
- Perlakuan yang baik
- Penggerak ke arah kebaikan
- Memperkotakan apa-apa yang dikatakan
- Beradab
- Kekitaan, kesetiaan, syura, dan muafakat

NILAI MURNI

Terdapat 12 nilai murni yang menyokong Etika Kerja Universiti Putra Malaysia, iaitu:

- Amanah
- Adil
- Benar dan Telus
- Bijaksana
- Bersyukur dan Sabar
- Cekap, Cepat, dan Tepat
- Ikhlas
- Penyayang
- Berdisiplin
- Jujur
- Bertanggungjawab
- Berdedikasi

DEFINITION

UPM staff abide by the work ethics, which are based on universal values, principles and behavioural guides.

OBJECTIVES

- To instil positive qualities in carrying out assigned duties so as to increase the quality of services
- To improve personal discipline so as to provide excellent services in tandem with the needs of consumers and organization
- To contribute continuously to the nation

PRINCIPLES

The Work Ethics must be implemented and internalised based on the principles below:

- Good intention
- Good behaviour
- Towards betterment
- Integrity
- Courtesy
- Teamwork, loyalty, 'syura' and consensus

POSITIVE VALUES

There are 12 moral values that support the Work Ethics:

- Trustworthy
- Just
- Transparency
- Brilliance
- Thankful and Patience
- Efficiencies, Effectiveness and Accuracy
- Sincerity
- Caring
- Discipline
- Honest
- Responsibility and
- Dedication

Visi & Misi Vision & Mission



“Wawasan Universiti ialah untuk Menjadi Universiti Bertaraf Dunia”

Misi Universiti adalah menjadi pusat pembelajaran dan penyelidikan yang unggul, yang memberikan sumbangan bukan sahaja kepada kemajuan manusia dan penerokaan ilmu, tetapi juga kepada pembentukan kekayaan dan pembangunan negara.



“The University’s Vision is to be a World Class University”

The University’s mission is to be a leading Centre of Learning and Research, contributing not only towards human advancement and discovery of knowledge, but also to the creation of wealth and nation building.



CanselorChancellor



Duli Yang Maha Mulia Sultan Sharafuddin Idris Shah Alhaj
ibni Almarhum Sultan Salahuddin Abdul Aziz Shah Alhaj





Pro-Canselor Pro-Chancellors

Y.Bhg. Tan Sri Dato' Sri Lim Ah Lek
(mulai / from 1/7/ 2006)

Y.Bhg. Tan Sri Dato' Thong Yaw Hong
(hingga / until 30/6/2006)



Y.Bhg. Tan Sri Dato' Dr. Nayan Ariffin

Ahli Lembaga Pengarah Board of Directors



PengerusiChairman

1. Y.Bhg. Tan Sri Dato' Seri Dr. Haji Zainul Ariff Haji Hussain

AhliMember

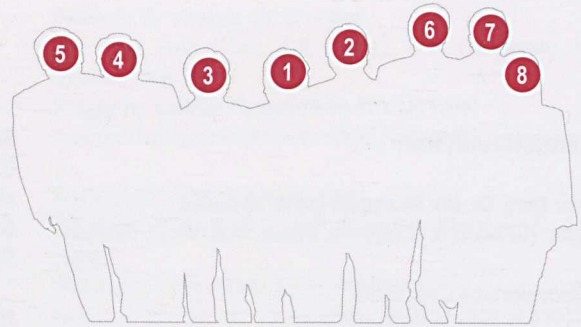
2. Y.Bhg. Prof. Dato' Dr. Nik Mustapha R. Abdullah
Naib CanselorVice Chancellor

3. Y.Bhg. Tan Sri Dato' Lee Shin Cheng
4. Y.Bhg. Datuk Dr. Abdul Aziz Sheikh Abdul Kadir
5. Y.Bhg. Datuk Dr. Zulkefli A. Hassan
6. Encik Md. Saad Hashim
7. Y.Bhg. Datuk Dr. Abdul Samad Haji Alias
8. Y.Bhg. Dato' Suriah Abd. Rahman

SetiausahaSecretary

9. Encik Wan Azman Wan Omar







PENGERUSICHAIRMAN

Profesor Dato' Dr. Nik Mustapha bin R. Abdullah
Dip. Agric. (UPM), B.S. (California, Davis), M.S., Ph.D. (Oregon State)
Naib Canselor/Vice Chancellor

AHLI-AHLIMEMBERS

Profesor Ir. Dr. Radin Umar bin Radin Sohadi
B.Eng. (Hons.) M.Eng., (Sheffield), Ph.D. (Birmingham), P.Eng., F.I.E.M., M.I.H.T. (UK), M.R.E.A.A.A., M.A.A.A.M. (USA)
Timbalan Naib Canselor (Akademik dan Pengantarabangsa)
Deputy Vice Chancellor (Academic and International Affairs)

Profesor Dr. Abu Bakar bin Salleh
B.Sc. (W. Aust.), Ph.D. (St. Andrews)
Timbalan Naib Canselor (Penyelidikan dan Inovasi)
Deputy Vice Chancellor (Research and Innovation)

Prof. Madya Dr. Azali bin Mohamed
Dip. Agric., B.Sc. (UPM), M.Sc., Ph.D. (Cardiff)
Timbalan Naib Canselor (Hal Ehwal Pelajar dan Alumni)
Deputy Vice Chancellor (Student Affairs and Alumni)

KEAHLIAN DEKAN/PENGARAH/KETUA MEMBERSHIP OF DEANS /DIRECTORS/HEADS

Profesor Dr. Mohd Khaniff bin Yusop (sehingga/until 8/8/06)
Dip. Agric. (Malaya), B.S., M.S. (Hawaii), Doc. Ag. Sci. (Ghent)
Profesor Dr. Ghizal Saleh (mulai/from 9/8/06)
Dip. Agric. Sc (UPM), M.S., Ph.D. (Misconsin - Madison)
Dekan, Fakulti Pertanian
Dean, Faculty of Agriculture

Profesor Dr. Mohd Hamami bin Sahri
B.Sc. (UPM), M.S. (S.U.N.Y., Syracuse), Ph.D. (UKM)
Dekan, Fakulti Perhutanan
Dean, Faculty of Forestry

Profesor Dr. Mohd. Zamri bin Saad
D.V.M. (UPM), Ph.D. (Liverpool)
Dekan, Fakulti Perubatan Veterinar
Dean, Faculty of Veterinary Medicine

Prof. Madya Zainal Abidin b. Kidam (sehingga/until 31/1/06)
B.S. (UPM), M.B.A. (Belgium), Ph.D. (UPM)
Profesor Dr. Annuar bin Md. Nassir (mulai/from 1/2/06)
B.S. (UPM), M.B.A. (Belgium), Ph.D. (UPM)
Dekan, Fakulti Ekonomi dan Pengurusan
Dean, Faculty of Economics and Management

Prof. Madya Ir. Dr. Azmi bin Yahya
B.Eng. (UPM), M.S. (Iowa State), Ph.D. (Iowa State), M.I.E.M., M.A.A.A.E., M.M.S.A.E., M.A.S.A.B.E.
Dekan, Fakulti Kejuruteraan
Dean, Faculty of Engineering

Profesor Dr. Zakaria bin Kasa
Dip. Agric. (UPM), B.S., M.S. (Louisiana State), Ph.D. (Ohio State)
Dekan, Fakulti Pengajian Pendidikan
Dean, Faculty of Educational Studies

Profesor Dr. Wan Md. Zin bin Wan Yunus
B.Sc. (UKM), M.Sc., Ph.D. (Salford)
Dekan, Fakulti Sains
Dean, Faculty of Science

Profesor Dr. Jinap bte Selamat
Dip. Sci. Edu. (UPM), B.S., M.S. (Louisiana State), Ph.D. (Pennsylvania State)
Dekan, Fakulti Sains dan Teknologi Makanan
Dean, Faculty of Food Science and Technology

Prof. Madya Dr. Laily binti Haji Paim
B.Sc. (Human Dev.) (UPM), M.Sc. (Home Economics) (Indiana State Univ., USA), Ph.D. (Consumption Economics) (Univ. of Illinois Urbana Champaign, USA)
Dekan, Fakulti Ekologi Manusia
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Prof. Madya Dr. Rosli bin Talif
Cert. Ed. (Kansas), B.A. (Wichita State), M.A. (Kansas), Ph.D. (Nottingham)
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Dean, Faculty of Modern Languages and Communication

Prof. Madya Dr. Mustafa Kamal bin Mohd. Shariff
Dip. Agric. (UPM), B.S. (Louisiana State), M.S. (Tennessee), Ph.D. (Colorado State), AILAM
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Dean, Faculty of Medicine and Health Science

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Profesor Datin Dr. Khatijah binti Mohd. Yusoff
B.Sc. (Hons.), Ph.D. (La Trobe)
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Dean, Faculty of Biotechnology and Biomolecular Sciences

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B.S. (Louisiana State), Ph.D. (Mississippi State)
Dekan, Fakulti Pengajian Alam Sekitar
Dean Faculty of Environmental Studies

Prof. Mohd Azmi b. Mohd Lila (sehingga/until 28/2/06)
DUM (UPM), Ph.D., (University of Cambridge), MBA (UPM)
Profesor Dr. Fatimah binti Md. Yusoff (mulai/from 1/3/06)
B.A. (Drew University, New Jersey), M.S., Ph.D. (Limnology)
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Pengarah, Institut Biosains
Director, Institute of Bioscience

Prof. Ir. Dr. Wan Ishak bin Wan Ismail (sehingga/until 3/9/06)
Dip. Agric. (Malaya), B.S., M.S. (Louisiana State, USA), Ph.D.
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Director, Institute of Gerontology

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Director, Institute for Mathematical Research

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Pengarah, Akademi Sukan
Director, Sports Academy

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Dean, Institute of Agriculture Food Policy Studies

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Director, Institute of Halal Product Research

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Faculty of Medical and Health Science

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Faculty of Economics and Management

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Fakulti Ekonomi dan Pengurusan
Faculty of Economics and Management

Profesor Dr. Mohd. Ali bin Hassan
B.Sc., M.Sc. (Leeds), M.Phil. (Birmingham), Ph.D. (Okayama)
Fakulti Bioteknologi dan Sains Biomolekul
Faculty of Biotechnology and Biomolecular Sciences

KEAHLIAN AHLI YANG DI KO-OPT MEMBERSHIP OF CO-OPTED MEMBERS

Encik Amir Hussain bin Md. Ishak
B. Lib. Info. Sc. (ITM), M. Lib. & Info. Sc. (IIUM)
Pemangku Ketua Pustakawan
Acting Chief Librarian

Profesor Dr. Abdul Aziz bin Saharee
K.M.N., P.M.P., B.V.Sc. & A.H. (Bombay), B.V.Sc. (Melbourne),
M.Sc. (Edinburgh), Ph.D.(UPM)
Pengarah, Pusat Pendidikan Luar
Director, Centre for External Education

Profesor Dr. Zainal Abidin bin Mohamed
B. Agric. Sc. (Hons.) (UM), M.B.A. (Wisc), Ph.D. (Edin)
Pengarah, Bahagian Perancangan Korporat
Director, Corporate Planning Department





Pengurusan Universiti University Management



NAIB CANSOLORVICE CHANCELLOR

Profesor Dato' Dr. Nik Mustapha R. Abdullah
Dip. Agric. (UPM), B.S. (California, Davis), M.S., Ph.D. (Oregon State)

TIMBALAN NAIB CANSOLOR (AKADEMIK DAN PENGANTARABANGSAAN) DEPUTY VICE CHANCELLOR (ACADEMIC AND INTERNATIONAL AFFAIRS)

Profesor Ir. Dr. Radin Umar bin Radin Sohadi
B.Eng. (Hons.) M.Eng., (Sheffield), Ph.D. (Birmingham), P.Eng., F.I.E.M, M.I.H.T. (UK), M.R.E.A.A.A., M.A.A.A.M. (USA)

TIMBALAN NAIB CANSOLOR (PENYELIDIKAN DAN INOVASI) DEPUTY VICE CHANCELLOR (RESEARCH AND INNOVATION)

Profesor Dr. Abu Bakar Salleh
B.Sc. (W. Aust.), Ph.D. (St. Andrews)

TIMBALAN NAIB CANSOLOR (HAL EHWAL PELAJAR) DEPUTY VICE CHANCELLOR (STUDENT AFFAIRS AND ALUMNI)

Prof. Madya Dr. Azali Mohamed
Dip. Agric., B.Sc. (UPM), M.Sc., Ph.D. (Cardiff)

PEMANGKU PENDAFTAR ACTING REGISTRAR

Encik Wan Azman Wan Omar
B.A. Hons(UKM), M.S. (UPM)

PEMANGKU BENDAHARIACTING BURSAR


Encik Zulkiflee Othman
DIA(PUO), B.S. (Urbana), M.B.A. (Kansas State)

PEMANGKU KETUA PUSTAKAWANA ACTING CHIEF LIBRARIAN

Encik Amir Hussain Md. Ishak
B.Lib. Info. Sc (ITM), M.Lib. & Info. Sc. (IIUM)



Profesor Dato' Dr. Nik Mustapha R. Abdullah
NAIB CANSOLORVICE CHANCELLOR



Encik Amir Hussain Md. Ishak
PEMANGKU KETUA PUSTAKAWANACTING CHIEF LIBRARIAN

Encik Zulkiflee Othman
PEMANGKU BENDAHARIACTING BURSAR

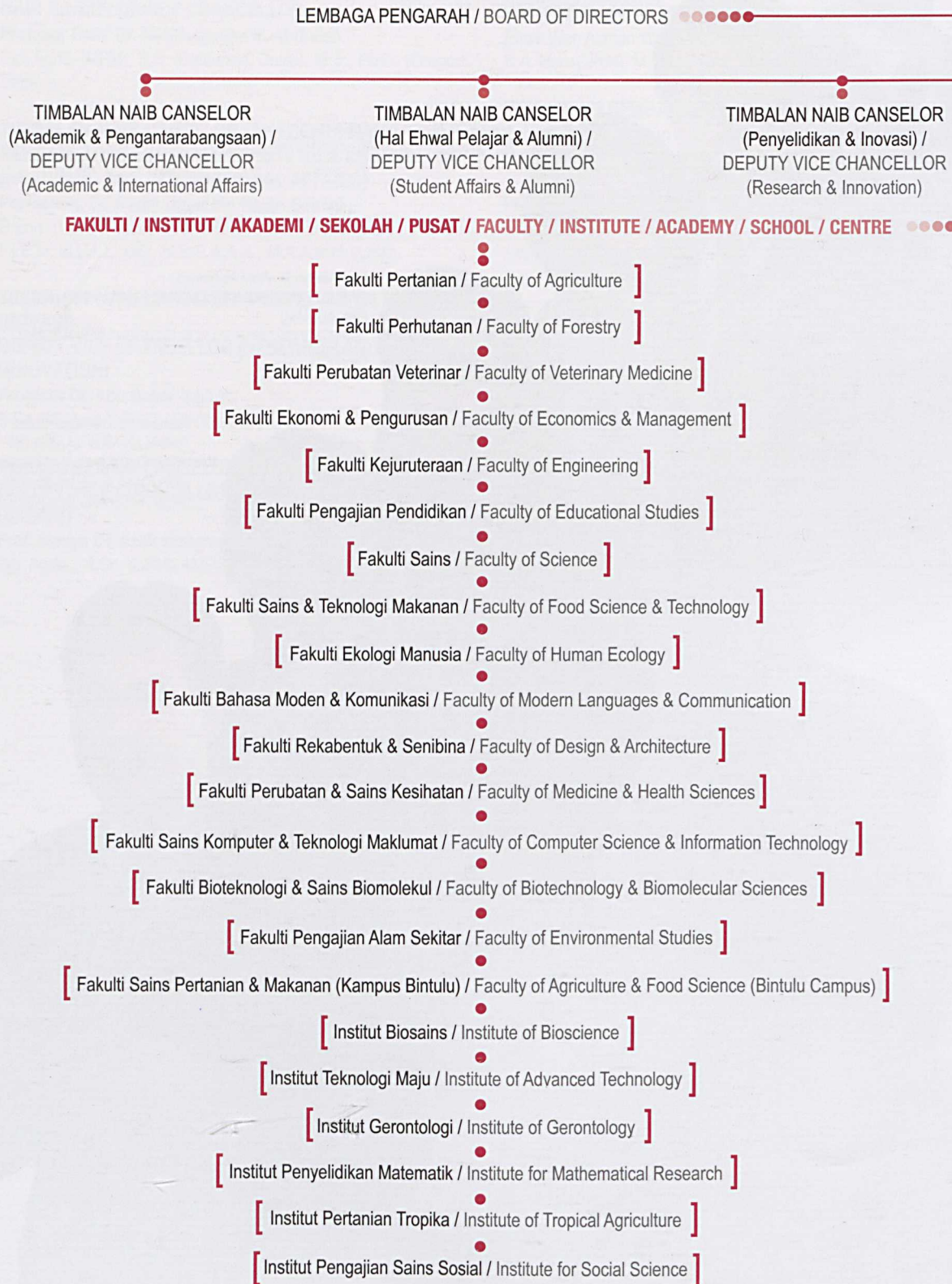
Encik Wan Azman Wan Omar
PEMANGKU PENDAFTAR ACTING REGISTRAR

Prof. Madya Dr. Azali Mohamed
TIMBALAN NAIB CANSOLOR (HAL EHWAL PELAJAR
DAN ALUMNI)
DEPUTY VICE CHANCELLOR (STUDENT AFFAIRS AND
ALUMNI)

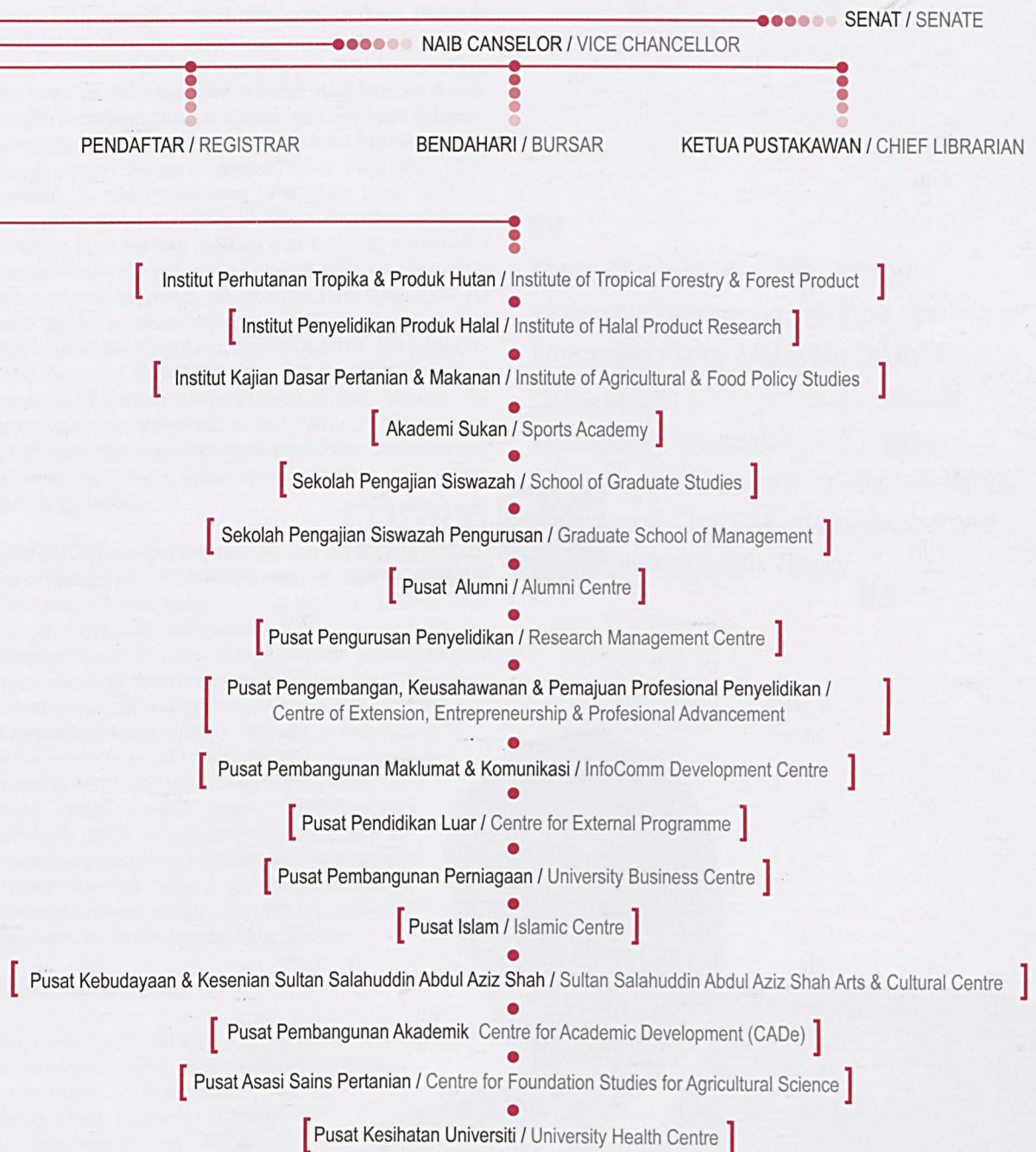
Profesor Dr. Abu Bakar Salleh
TIMBALAN NAIB CANSOLOR
(PENYELIDIKAN DAN INOVASI)
DEPUTY VICE CHANCELLOR
(RESEARCH AND INNOVATION)

Profesor Ir. Dr. Radin Umar Radin Sohadi
TIMBALAN NAIB CANSOLOR (AKADEMIK DAN
PENGANTARABANGSAAN) DEPUTY VICE CHANCELLOR
(ACADEMIC AND INTERNATIONAL AFFAIRS)

Struktur Organisasi Organisational Structure



1000591078



MAJLIS PERKAMPUSAN MALAYSIA
MPPM

1991

MAJLIS PERKAMPUSAN MALAYSIA

1991

MAJLIS PERKAMPUSAN MALAYSIA



Laporan Naib Canselor Vice Chancellor's Report

Bermula sebagai sebuah Sekolah Pertanian Serdang pada tahun 1931, kemudian dinaik taraf sebagai Kolej Pertanian pada tahun 1947 dan seterusnya sebagai sebuah universiti pada tahun 1971, UPM telah melakarkan sejarah bumi Serdang dan tanah air sebagai sebuah universiti yang tersohor di Asia. Setelah menelusuri pelbagai cabaran dan rintangan, kekayaan pengalaman yang ditimba sehingga kini telah meletakkan UPM sebaris dengan Universiti terkemuka dunia. Pada tahun 2006, genaplah 75 tahun penubuhan UPM. Pada tahun ini, UPM menyambut sambutan Jubli Intan 75 Tahun UPM. Keceriaan warga UPM dan bumi Serdang memang jelas kelihatan, terutamanya apabila kecemerlangan warga universiti telah mengharumkan nama universiti ke persada antarabangsa. Pada tahun 2006 juga telah berlaku peralihan kepimpinan Universiti. Peralihan yang dilaksanakan amat signifikan kepada Universiti dan warganya. Yang Berhormat Menteri Pengajian Tinggi telah melantik saya menerajui kepimpinan Universiti sebagai Naib Canselor dan pelantikan itu merupakan satu amanah dan tanggungjawab yang besar yang perlu diteruskan demi memastikan kecemerlangan universiti dapat terus dijana untuk memacu kemajuan dan peradaban bangsa.

UPM kini telah mengharungi fasa pertama selama lima (5) tahun Pelan Strategik 2001-2010 UPM yang telah dilancarkan pada tahun 2001. Kini, Universiti berada di fasa kedua Pelan Strategik UPM. Dengan kepimpinan baru dan amanah baru yang diberikan oleh kerajaan kepada Universiti, perubahan dalam pentadbiran sedia ada universiti merupakan satu agenda utama untuk memastikan keberkesanan dan kesinambungan kecemerlangan UPM dapat dilaksanakan dengan jayanya. Pelbagai perancangan serta tindakan telah dan akan dilaksanakan untuk memastikan matlamat kecemerlangan universiti pada tahun 2010 dapat dicapai. Selaras dengan kepimpinan baru Universiti, Pihak Pengurusan UPM mengamalkan konsep *empowerment* yang lebih luas kepada anggota Pihak Pengurusan Universiti dan jawatankuasa lain di peringkat Universiti dengan harapan pihak berkenaan akan lebih teliti dalam membuat pertimbangan.

Penstrukturan Entiti

Bagi mendepani cabaran era globalisasi kini yang mempengaruhi daya saing Universiti, proses rasionalisasi dilaksanakan untuk mengukuhkan kedudukan Universiti di peringkat nasional dan antarabangsa. Dalam proses ini, peranan dan fungsi institut atau pusat tanggungjawab di Universiti telah disemak semula dan diharmonikan sejajar dengan objektif terkini UPM. Langkah ini juga



Pada 11 Oktober 2006, warga Universiti berasa berbangga apabila Universiti Putra Malaysia telah diumumkan sebagai salah sebuah Universiti Penyelidikan di bawah Rancangan Malaysia Ke-9 oleh Yang Berhormat Dato' Mustapa Mohamed, Menteri Pengajian Tinggi



Bil	Entiti	Status Terkini
1.	Institut Gerontologi	Dikekalkan
2.	Institut Kajian Dasar Pertanian dan Makanan	Dikekalkan
3.	Akademi Sukan	Dikekalkan
4.	Institut Penyelidikan Matematik	Dikekalkan
5.	Institut Biosains (IBS)	Penstrukturan semula serta gabungan IBS dengan Institut Farmaseutikal dan Nutriseutikal Bioteknologi
6.	Institut Pertanian Tropika	Penstrukturan dan penjenamaan semula Institut Kajian Perladangan
7.	Institut Pengajian Sains Sosial	Penstrukturan dan penjenamaan semula Institut Pengajian Komuniti dan Keamanan (PEKKA)
8.	Institut Perhutanan Tropika dan Produk Hutan	Penstrukturan semula dan penggabungan Institut Biokomposit Tropika dengan Akademi Hutan Hujan
9.	Institut Penyelidikan Produk Halal	Penstrukturan semula dan penggabungan Institut Makanan Halal dengan Pusat Kajian Strategik dan Inovasi Makanan
10.	Institut Teknologi Maju (ITMA)	Penstrukturan semula serta gabungan ITMA dengan Pusat Mekanisasi, Pengautomatan Pertanian, dan Makanan (AGROMAC)
11.	Pusat Pengembangan, Keusahawanan dan Pemajuan Profesional	Penstrukturan semula dan penggabungan antara Institut Pengembangan Pertanian, Institut Pembangunan Usahawan Tani, dan Pusat Pemajuan Profesional
12.	Pusat Pembangunan Maklumat dan Komunikasi	Penstrukturan semula dan penggabungan Institut Multimedia dan Perisian dengan Bahagian Teknologi Maklumat

merupakan inisiatif awal yang diambil oleh pihak Universiti sebagai persediaan untuk merealisasikan peranannya sebagai sebuah Universiti Penyelidikan yang utama di Malaysia. Proses rasionalisasi tersebut menggariskan kriteria yang jelas dan menunjukkan proses kematangan sesuatu aktiviti penyelidikan dan sumber manusia yang terlibat yang berada di Institut, Pusat Kecemerlangan, dan Fakulti. Entiti yang terlibat adalah seperti dalam **Jadual 01** di atas.

Universiti telah menetapkan tahap atau aras penyelidikan di UPM, iaitu **penyelidikan am di fakulti**, penyelidikan dalam **bidang kekuatan** di Pusat Kecemerlangan di Fakulti, dan penyelidikan dalam **bidang tumpuan** di institut. Secara ringkasnya, aktiviti penyelidikan akan dijalankan di setiap fakulti dan akan meningkat ke tahap yang lebih tinggi sehingga ke peringkat penyelidikan dalam bidang tumpuan di institut.

Sebanyak enam (6) gagasan penyelidikan baharu untuk memantapkan kecemerlangan aktiviti penyelidikan di UPM telah dikenal pasti, iaitu Pertanian, Makanan, Perhutanan dan Alam Sekitar, Kesihatan, Sains Sosial, dan Sains, Kejuruteraan & Teknologi.

Untuk mengukuhkan pelaksanaan gagasan ini, sebanyak lapan (8) bidang tumpuan penyelidikan telah dijadikan sebagai fokus, iaitu selaras dengan penekanan kerajaan terhadap pembangunan dan agenda pertanian negara. Lapan (8) bidang tumpuan utama UPM ialah Pengeluaran Tanaman Makanan, Tanaman Perladangan, Pengeluaran Peternakan dan Akuakultur, Bio-Kesihatan, Pengeluaran Produk Bio Nilai Ditambah, Tenaga Alternatif Yang Boleh Diperbaharui, Produk dan Perkhidmatan Perhutanan, dan Produk Halal.

Penetapan bidang tumpuan tersebut telah dilaksanakan dengan mengambil kira aspek rantai nilai sesuatu aktiviti penyelidikan dari aktiviti hulu hingga ke hiliran; penyelidikan yang tersohor yang UPM mempunyai kepakaran yang kompetitif dan *critical mass*, penyelidikan yang merentas disiplin; dan bidang keutamaan

dalam penyelidikan yang akan dijalankan dan dipelopori oleh institut berkenaan.

Pemantapan peranan dan skop penyelidikan yang dilaksanakan di Universiti ini, akan dapat meningkatkan keupayaan penyelidikan Universiti untuk memberi sumbangan secara produktif dan efektif kepada agenda pembangunan dan sosioekonomi negara.

Pengenalan Modul Kemahiran Insaniah dan Pembelajaran Berpandukan Hasil Pembelajaran (Learning Outcomes)

Kualiti graduan dan kebolehdapatan kerja merupakan agenda berterusan yang diberikan penekanan oleh pihak pimpinan universiti. Pelbagai usaha dan inisiatif telah dilakukan demi memastikan modal insan yang dihasilkan oleh universiti memenuhi ciri Matlamat Pertama Universiti, iaitu untuk melahirkan graduan yang berkualiti, daya saing, dan mampu maju dengan pembelajaran secara berterusan.

Universiti Putra Malaysia telah mempelopori inisiatif penambahbaikan kepada kaedah dan sistem pengajaran dan pembelajaran di universiti. Corak pendidikan dan proses pengajaran dan pembelajaran diubahsuai untuk memastikan hasil pembelajaran (*learning outcomes*) dan kemahiran insaniah (*soft skills*) yang perlu dimiliki oleh graduan UPM dilaksanakan melalui proses pengajaran dan pembelajaran yang efektif. Justeru, UPM telah melaksanakan inisiatif Hasil Pembelajaran (*Learning Outcomes Initiatives*) kepada pegawai akademik untuk memberi pendedahan dan pengetahuan tentang taksonomi pembelajaran yang perlu dicapai oleh pelajar, di samping teknik pengajaran dan kaedah pentaksiran (*assessment*) yang pelbagai. Kaedah serampang dua mata ini mampu melahirkan kakitangan akademik yang versatil dan pelajar yang lengkap dengan kemahiran insaniah yang diperlukan.

Inisiatif ini telah diperluaskan pelaksanaannya kepada semua Institusi Pengajian Tinggi Awam dengan pelantikan Y.Bhg Prof.

Started as Serdang Agricultural School in 1931, upgraded to Agricultural College in 1947 and established as a University in 1971, UPM has indeed clinched a mark in the history and landscape of Serdang and the country as a renowned university in Asia. The ability to endure numerous challenges and obstacles adds to a wealth of experience which enables UPM to stand on par with other outstanding universities in the world. 2006 marked the 75th anniversary of the establishment of UPM. The year saw UPM celebrating its Diamond Jubilee. The excitement of UPM's community on the land of Serdang was apparent, especially among those excellent personnel who have elevated UPM onto the world stage. 2006 also witnessed a change in its leadership. The change that was significant to the University and its community. The Honourable Minister of Higher Education appointed me to lead the University as its new Vice Chancellor and this appointment signifies the immense trust and responsibility that I need to carry to ensure that the University's standard of excellence continues to generate towards the advancement of our nation.

UPM has already completed the first phase, spanning 5 years, of UPM's 2001-2010 Strategic Plan, which was launched in 2001. Currently, the University is in the second phase of this Strategic Plan. With the new leadership and the expectation of the government to the University, the changes in the administration have become one of the agenda implemented to ensure that

the effectiveness and continuity of UPM's achievements and standards of excellence are successfully enhanced. Various plans and actions have and will be put into practice to ensure that UPM stays on course and successfully achieves the objectives of its Strategic Plan for 2010. In line with the University's new leadership, UPM's Management Team has adopted a wider empowerment concept among the Members of the University's Management Team and other Committees at the University. It is hoped that these personnels will exercise wisdom in their decision-makings.

Entity Structuring

In order to face the challenges of the new globalisation era, which are influencing the University's competitiveness, a rationalisation process has been taken into action to sustain the University's position at the national and international levels. In this process, the role and function of the Centre or Institute or division in the University were revised and incorporated in line with UPM's most recent objectives. This initiative by the University is to prepare for the changing role towards becoming the premier Research University in Malaysia. Furthermore, this rationalization process outlines a clear criterion and indicates the maturing process of any particular research activity or human resource involved in the Institutes, the Centre of Excellence and the various Faculties. The entities involved are illustrated in the following Table:

No.	Entity	Latest Status
1.	Institute of Gerontology	Maintained
2.	Institute of Agriculture and Food Policy Studies	Maintained
3.	Sports Academy	Maintained
4.	Institute for Mathematical Research	Maintained
5.	Institute of Bioscience (IBS)	Restructuring and merging of IBS with Pharmaceutical and Nutraceutical Biotechnology.
6.	Institute of Tropical Agriculture	Restructuring and rebranding of the Institute of Plantation Studies.
7.	Institute for Social Science Studies	Restructuring and rebranding the Institute of Community and Peace Studies. (PEKKA)
8.	Institute of Tropical Forestry and Forest Products	Restructuring and merging of Institute of Tropical Bio-composite with the Rainforest Academy.
9.	Institute of Halal Products Research	Restructuring and merging of the Institute for Halal Products Research and Centre for Strategic Studies and Food Innovation.
10.	Institute of Advanced Technology (ITMA)	Restructuring and merging of ITMA with The Centre for Mechanization and Automation of Food and Agricultural (AGROMAC)
11.	Centre of Extension, Entrepreneurship & Professional Advancement	Restructuring and merging of The Institute of Agricultural Expansion, Institute of Agricultural Entrepreneurship and The Centre for Advancement of Professionals.
12.	Information and Communication Development Centre	Restructuring and merging of The Institute for Multimedia and Software with The Information Technology Division.

Table 01: Restructuring UPM's Centre For Excellence

Ir. Dr. Radin Umar Radin Sohadi, Timbalan Naib Canselor (Akademik dan Pengantarabangsaan) sebagai Pengerusi Jawatankuasa Pembentukan Modul Pembangunan Kemahiran Insaniah, Kementerian Pengajian Tinggi Malaysia. Modul ini telah dilancarkan oleh Yang Berhormat Dato' Mustapa Mohamed, Menteri Pengajian Tinggi pada 22 Ogos 2006 di UPM. Di samping itu, untuk memantapkan kualiti graduan yang dikeluarkan, Universiti telah mengukuhkan pelaksanaan Modul Kemahiran Insaniah tersebut dalam aktiviti kokurikulum yang ditawarkan kepada pelajar. Justeru, Pusat Kokurikulum yang bertanggungjawab mengurus pelaksanaan kursus Kokurikulum Berkredit telah ditubuhkan untuk memastikan keberkesanan penerapan elemen kemahiran insaniah dalam aktiviti kokurikulum berkredit di Universiti.

Dalam usaha untuk memperkasakan graduan yang dihasilkan oleh UPM, **Skim Externship** telah diwujudkan untuk memberi peluang kepada pelajar mendapatkan kemahiran dan latihan di luar negara. Pengenalan Skim ini adalah merupakan salah satu usaha pengantarabangsaan universiti untuk melahirkan graduan yang berdaya saing pada peringkat global.

Penarafan Antarabangsa dan Kebangsaan

Antara catatan bersejarah yang dicapai pada tahun 2006 ialah kejayaan Universiti menduduki tangga 292, iaitu peningkatan sebanyak 102 tangga dalam penyenaian kedudukan Universiti Terbaik Dunia oleh *The Times Higher Education Supplement*. UPM juga telah berjaya menduduki tangga ke-43 universiti terbaik di rantau Asia. Kejayaan ini adalah merupakan berkat usaha dan kegigihan Pihak Pengurusan Universiti dan warga penyelidik UPM dalam mempromosikan dan meningkatkan imej serta sumbangan penyelidikan Universiti kepada pembangunan dan sumber kekayaan negara. Pengiktirafan ini memberi gambaran yang positif tentang peningkatan status UPM di persada antarabangsa.

Di samping itu, Fakulti Ekonomi dan Pengurusan dan Sekolah Pengajian Siswazah Pengurusan telah mengambil inisiatif ke arah pencapaian pengiktirafan *The Association to Advance Collegiate Schools of Business* (AACSB). Inisiatif ini telah meletakkan UPM sebagai Institusi Pengajian Tinggi Awam yang pertama mengorak langkah ke arah memperoleh pengiktirafan tersebut.

Fakulti Sains dan Teknologi Makanan UPM juga telah diberikan pengiktirafan sebagai Pusat Kecemerlangan Penyelidikan Keselamatan Makanan Kebangsaan (*National Food Safety Research Centre (NFSR)*) oleh Kementerian Kesihatan Malaysia. Pusat Kecemerlangan tersebut berperanan untuk menerajui dan menyelaras aktiviti penyelidikan dan perkhidmatan profesional keselamatan makanan di peringkat kebangsaan. Di samping itu, Makmal Analisis Makanan UPM-BERNAS yang berharga kira-kira RM 5 juta di Fakulti Sains Teknologi Makanan menjadi pusat pemantauan kualiti beras di Malaysia. Beras yang berkualiti akan diiktiraf dan diberikan logo 'Pilihan Bernas' sebagai tanda jenama beras berkenaan mencapai kualiti terbaik dari segi kandungan nutrisi, kelazatan, dan bentuk beras yang disajikan. Pengiktirafan seumpama ini adalah suatu yang wajar dicapai oleh Universiti ini untuk memastikan kualiti dan standard perkhidmatan yang diberikan adalah pada tahap cemerlang. Universiti juga telah melaksanakan semakan semula hala tuju yang telah dilaksanakan oleh beberapa PTJ untuk membolehkannya memainkan peranan dan fungsi yang lebih berkesan, dan seterusnya mengorak langkah untuk menjadi lebih maju dan cemerlang pada masa hadapan.

Sebagai langkah untuk meningkatkan lagi aktiviti promosi dan usaha menyebarkan kejayaan Universiti, para penyelidik dan pegawai telah disaran bertindak sebagai duta untuk memperkenalkan Universiti ini dan membina reputasi dalam kalangan institusi kesarjanaan di peringkat antarabangsa. Selaras dengan itu, hubungan jaringan yang dibina akan dipupuk ke arah memberi impak yang positif kepada Universiti. Impak ini boleh terdiri daripada peningkatan pelajar luar negara yang melanjutkan pengajian di UPM, peningkatan kolaborasi penyelidikan dengan penyelidik bertaraf antarabangsa, peningkatan sumbangan dana penyelidikan, peningkatan kedudukan universiti, pengiktirafan dan penarafan Universiti, dan peningkatan peranan pentadbir Universiti ke tahap yang lebih tinggi.

Penawaran Program Pengajian Baharu

Kementerian Pengajian Tinggi Malaysia telah meluluskan sebanyak empat (4) program akademik peringkat Bachelor yang relevan dengan usaha dan hala tuju kerajaan untuk memartabatkan sektor pertanian dan pembangunan sumber secara lestari di negara ini. Program baharu yang ditawarkan oleh universiti ialah:

- Bachelor Pengurusan Alam Sekitar
- Bachelor Pertanian (Akuakultur)
- Bachelor Pertanian (Sains Ternakan)
- Bachelor Sains Teknologi Kayu

Penawaran program baharu tersebut akan menjana modal insan yang berkualiti dan berdaya saing serta mampu meningkatkan sumbangan UPM kepada masyarakat dan bidang pertanian. Langkah ini juga adalah selaras dengan fungsi UPM sebagai Pusat Kecemerlangan Pendidikan Pertanian.

Penyelidikan dan Pengkomersilan Universiti

Mengikut rekod pencapaian geran penyelidikan bermula dari rancangan Malaysia ke-6, UPM merupakan penerima geran yang tertinggi berbanding dengan institusi pengajian tinggi tempatan. Kecemerlangan UPM ini telah berjaya dikekalkan dalam Rancangan Malaysia ke-9 (RMK9). Setakat 31 Disember 2006, UPM telah berjaya membida geran penyelidikan yang tertinggi daripada Kementerian Pengajian Tinggi, iaitu sebanyak RM16.8 juta untuk Dana Penyelidikan Fundamental. Manakala bagi Dana Sains atau *Science Fund*, UPM mengetengahkan sebanyak 311 projek penyelidikan dan berjaya memperoleh Dana Sains berjumlah RM48.9 juta daripada Kementerian Sains, Teknologi dan Inovasi (MOSTI).

UPM mempunyai potensi dan kelebihan tersendiri (*comparative advantage*) untuk mendapatkan lebih banyak geran atau peruntukan daripada pelbagai agensi kerajaan atau swasta mahupun daripada badan antarabangsa yang berminat dengan hasil dan dapatan penyelidikan yang dilaksanakan. Sehubungan itu, Universiti telah membuat perancangan dan inisiatif untuk mendapatkan dana daripada pihak swasta dari dalam dan luar negara sebagai usaha meningkatkan lagi aktiviti penyelidikan dan sumbangan kesarjanaan di peringkat yang lebih luas dan global. Perancangan ini termasuklah inisiatif awal untuk memanfaatkan peruntukan sebanyak RM153.0 juta yang bakal diterima di bawah peruntukan Universiti Penyelidikan.

Bagi memastikan aktiviti pembangunan, penyelidikan dan pengkomersilan (RDC) dilaksanakan dengan lebih berkesan, Pusat Inovasi dan Pengkomersilan (ICC) telah ditubuhkan di

The University has outlined and determined the level of research in UPM. This includes general research in faculties, research on the strengths of the Centres for Excellence in the faculties, and research on the specific areas of the different institutes. In other words, each faculty will conduct research activities which will increase in the level of complexity that the research specifies the focus area of the institutes.

A total of six (6) new clusters has been identified in the effort to enhance the standards of excellence in research activities at UPM. The clusters include Agriculture, Food, Forestry and the Environment, Health, Social Science as well as Science, Engineering and Technology.

To strengthen the implementation of these clusters, eight (8) fields of research have been identified as the focus, which are in line with the Government's emphasis on development and the country's agricultural agenda. UPM's eight focussed areas of research are Food Corp Production, Plantation Crop, Animal and Aquaculture Production, Bio-Health, Value-added Bio-products, Alternative Renewable Energy, Forest Products and Services, and Halal Products.

The establishment of these focus areas has to consider the different elements of the value chain. Each research activity has to move from upstream activity down to downstream activity. Moreover, UPM has the cutting edge research in terms of competitive skills and critical mass, interdiscipline, and the niche areas where research is conducted and explored at these Institutes.

The enhancement of the role and scope of research implemented at this University will improve its research capabilities which in turn will contribute productively and effectively towards the country's development and socio-economic agenda.

Introduction of the Soft Skills Module and Learning Based On Learning Outcomes

The quality and employability of graduates are continuous agenda emphasised by the University's leadership. Numerous efforts and initiatives have been implemented to ensure the human capital produced by the University fulfils UPM's First Objective, that is, to produce quality graduates who are competitive and able to develop through continuous learning.

Universiti Putra Malaysia has initiated breakthroughs and improvements in the method and system of teaching and learning at the University. Education styles as well as the teaching and learning processes have been modified to ensure that the Learning Outcomes and soft skills needed by UPM graduates are inculcated through effective teaching and learning processes. Therefore, UPM has mandated the Learning Outcome Initiatives on the academic staff to give them the exposure and knowledge on learning taxonomy which should be accomplished by the students, and the various teaching techniques and assessment methods. This method of "killing two birds with one stone" will generate versatile academic staff and students who are equipped with necessary soft skills.

The implementation of these initiatives has been extended to all Public Institutions of Higher Learning with the appointment of Y.Bhg Prof. Ir. Dr. Radin Umar Radin Sohadi, Deputy Vice Chancellor (Academic and Internationalization), as the Chairman

of the Soft Skills Development Module Design Committee, Ministry of Higher Education, Malaysia. This module was launched by Dato' Mustapa Mohamed, Minister of Higher Education on 22 August 2006 at UPM.

In addition, to enhance the quality of the graduates produced, the University has enhanced the implementation of the Soft Skills Module in its co-curricular activities. Thus, a Co-curriculum Centre, responsible for coordinating the implementation of the Credited Co-curriculum, was established to ensure that the effectiveness of incorporating soft skills in the Credited Co-curriculum activities at the university.

In its efforts to significantly upgrade the standard of the graduates produced by UPM, the Externship Scheme was set up to give students access to training and skills development overseas. The introduction of the Scheme is one of the University's key efforts in internationalizing itself to generate globally competitive graduates.

International and National Acknowledgment

One of UPM's historical moments in 2006, was when the University was ranked 292, among the World's Best Universities by The Times Higher Education Supplement which was an improvement of 102 ranks. UPM has also achieved 43rd place among Asia's Best Universities. These achievements were the reward of the concerted effort and dedication of the University's Management Team and the research staff in promoting and enhancing the image as well as contributions in the University's research efforts to the development and prosperity of the nation. These accolades positively signify UPM's status in the international arena.

Besides these, the Faculty of Economics and Management and the Graduates School of Management have taken the initiative towards attaining recognition from the Association of Advance Collegiate Schools of Business (AACSB). This initiative has placed UPM as the first ever IPTA to aim for such recognition.

The Faculty of Science and Food Technology has also been accorded a Centre of Excellence in National Food Safety Research (NSFR) by the Ministry of Health. Hence, the Research Centre carries the responsibility of leading efforts and coordinating research activities and professional food safety services at the national level. Meanwhile, the UPM-BERNAS Food Analysis Laboratory which costs about RM5 million, situated within the Faculty of Science and Food Technology has become the key monitoring centre for grain quality in Malaysia. Quality approved grains will be given the Choice of Bernas logo to signify that the grains meet the highest quality requirements in terms of nutritional content, taste and palatability. Such recognition is necessary for the University to ensure that the quality and the standard of services offered are excellent. The University has also reviewed its corporate directives implemented by the various Centres of Responsibility (PTJ) to ensure they continue to play a more effective role and thus, move towards achieving greater progress and excellence in the future.

To further uplift the promotional activities and efforts to widely publicize the University's achievements, all researchers and officers have been encouraged to act as ambassadors of the University and build its reputation among graduate institutions at the international level. In line with this, networking will be developed so as to have a positive impact on the University. This

UPM. Antara peranan dan tanggungjawab ICC adalah seperti yang berikut:

- menyokong dan membantu UPM menggiatkan aktiviti pengkomersilan di peringkat pengenalan, pembangunan dan pengurusan bagi projek atau produk penyelidikan yang berpotensi untuk diniagakan;
- mengkomersilkan hasil dan produk penyelidikan serta memindahkan teknologi baru kepada pihak luar melalui pelbagai cara seperti promosi harta intelek dan penerokaan pelaburan (*venture capital*);
- menyediakan perkhidmatan perundingan kepada pihak luar atau dalam kampus serta memastikan perlindungan kepentingan pakar runding UPM;
- mewujudkan serta berusaha memastikan peluang perniagaan melalui aktiviti pemberian konsesi, penjualan terus harta intelek, penswastaaan, penerokaan usahasama, dan pengambilalihan yang berasaskan aktiviti akademik dan hasil penyelidikan UPM.

Universiti Penyelidikan

Pada penghujung tahun 2006, warga universiti berasa bangga apabila Universiti Putra Malaysia telah diumumkan sebagai salah sebuah Universiti Penyelidikan di bawah Rancangan Malaysia Ke-9 oleh Yang Berhormat Dato' Mustapa Mohamed, Menteri Pengajian Tinggi. Tiga (3) buah universiti tempatan lain yang turut terlibat dan dinaiktaraf sebagai Universiti Penyelidikan ialah Universiti Sains Malaysia (USM), Universiti Kebangsaan Malaysia (UKM), dan Universiti Malaya (UM). Keputusan ini telah dibuat oleh jemaah menteri yang bersidang pada 11 Oktober 2006. Pengiktirafan ini diberikan berdasarkan lapan (8) kriteria, iaitu kuantiti dan kualiti penyelidik, kuantiti dan kualiti penyelidikan, kualiti pascasiswazah, inovasi, khidmat profesional dan hadiah, rangkaian dan pautan serta kemudahan sokongan yang terdapat di universiti berkenaan.

Dengan pengiktirafan sebagai Universiti Penyelidikan (UP), keempat-empat Universiti ini akan menjadi peneraju dalam bidang inovasi, reka cipta dan penghasilan penyelidikan bertaraf dunia. Kejayaan ini adalah merupakan usaha gigih warga Universiti, terutama dalam penghasilan penyelidikan dan penemuan baru yang mendapat pengiktirafan pada peringkat kebangsaan dan antarabangsa.

Dalam memperkasakan peranan Universiti sebagai Universiti Penyelidikan, agenda transformasi pertanian secara holistik masih tetap menjadi agenda utama UPM. Pihak Universiti percaya bahawa dengan penghasilan penyelidikan berimpak tinggi, terutama dalam bidang agrobio, usaha ini akan dapat meningkatkan peranan dan sumbangan Universiti kepada pembangunan sosioekonomi, masyarakat dan negara.

Beberapa isu penting seperti governan, perundangan dan tadbir urus universiti penyelidikan merupakan antara isu utama yang dibincangkan dalam kalangan warga universiti. Sebagai langkah komprehensif dan strategik, pihak pengurusan universiti telah mengadakan bengkel hala tuju dan pelan tindakan dalam kalangan pegawai utama universiti untuk memastikan agenda kerajaan menubuhkan universiti penyelidikan terhasil dengan jayanya. UPM telah menetapkan pelan tindakan serta petunjuk

prestasi utama (KPI) yang ingin dicapai dalam tempoh tiga (3) tahun mulai tahun 2007 bagi menepati standard Universiti Penyelidikan mengikut kriteria yang telah ditetapkan.

Pembangunan Fizikal

Universiti sentiasa berusaha untuk memberikan perkhidmatan yang berkualiti kepada semua staf, pelajar, dan pelanggan universiti. Pelbagai langkah telah diambil untuk meningkatkan kemudahan pengajaran dan pembelajaran yang ada di Universiti ini. Pada tahun 2006, projek pembangunan yang telah disiapkan ialah Kompleks Fakulti Perubatan dan Sains Kesihatan di UPM. Dengan tertubuhnya Kompleks ini, maka masalah berkaitan ruang yang dihadapi oleh Universiti dapat dikurangkan.

Di bawah rancangan Malaysia RMK - 9, terdapat 13 projek pembangunan fizikal yang telah diluluskan untuk dilaksanakan di UPM. Perancangan teliti dan pemantauan telah dan akan terus dilaksanakan untuk memastikan pelaksanaan projek pembangunan tersebut dapat dijayakan secara berkesan.

Anugerah dan Pencapaian

Dalam usaha meningkatkan kuantiti dan kualiti penyelidikan di Universiti, para penyelidik UPM digalakkan untuk menyertai pertandingan dan pameran di dalam dan di luar negara. Selain memberi pendedahan kepada penyelidik Universiti terhadap penemuan baru yang dihasilkan oleh penyelidik tempatan dan di luar negara, usaha ini juga dapat memupuk dan memperkukuhkan jaringan kerjasama UPM dengan institusi terkemuka luar negara. Kejayaan yang diperoleh oleh para penyelidik UPM di peringkat antarabangsa membuktikan bahawa kualiti penyelidikan yang dihasilkan adalah setanding malah lebih baik berbanding dengan penyelidik di luar negara. Usaha giat terus dijalankan ke arah meningkatkan aktiviti pengkomersilan hasil penyelidikan Universiti. Dengan tertubuhnya Pusat Inovasi dan Pengkomersilan, aktiviti pengkomersilan Universiti akan dapat dilaksanakan secara lebih terancang dan mampu menjana pendapatan kepada Universiti.

Secara keseluruhannya, pada tahun 2006, UPM telah berjaya meraih sebanyak 23 anugerah di peringkat antarabangsa dan sebanyak 61 anugerah di peringkat kebangsaan.



Konvokesyen 2006

Majlis Konvokesyen UPM ke-30 telah diadakan sebanyak dua (2) sidang, iaitu pada 29 hingga 31 Julai dan pada 16 hingga 19 September 2006. Seramai 9,206 graduan yang terdiri daripada

impact may come from an increase in the number of international students who are extending the tenure of their studies at UPM, an increase in research collaborations with international researchers, a boost in contributions towards the research fund, an elevation of the University's status and improved recognition and acknowledgement of the University as well as enhancement of its administration's role.

New Study Programmes Offered

The Ministry of Higher Education has approved four (4) academic Bachelor Programmes that are relevant to the efforts and direction taken by the Government to perpetually consolidate the agricultural sector and the cultivation of resources in this country.

The new Programmes offered by the University are:

- Bachelor in Environmental Management
- Bachelor in Agriculture (Aquaculture)
- Bachelor in Agriculture (Livestock Science)
- Bachelor of Wood Science and Technology

The new Programmes will generate quality and competitive human capital and enable UPM to contribute even more significantly to the society and the agricultural sector. This parallels with UPM's role as the Centre of Excellence in Agricultural Studies.

Research and Commercialization of the University

UPM's records of achievements indicate that the grant for its research began from the 6th Malaysian's Plan. UPM was the highest grant recipient, compared to other local Institutions of Higher Learning. Indeed, UPM has successfully sustained such excellent record in the 9th Malaysia Plan. As of 31 December, 2006, UPM has succeeded in bidding for the highest research grant from the Ministry of Higher Education which is RM16.8 million for its Fundamental Research Fund. Meanwhile, for the Science Fund, UPM has put forward 311 Research Projects and has received RM49.8 million from the Ministry of Science, Technology and Innovation (MOSTI).

Furthermore, UPM has the potential and comparative advantage to gain more grants or funds from various government and private agencies and even from International Organisations which are interested in the research products and findings. As a result, the University has implemented plans and initiatives to obtain such funds from the private sector both locally and internationally in the efforts to increase research activities and scholarly contribution on a wider and global level. These plans include taking the initiative to capitalize on the provisions of RM153 million which UPM will receive under the Research University budget.

To ensure that research, development and commercialization (RDC) activities are carried out efficiently, the Innovation and Commercialization Centre (ICC) has been set up in UPM. Among this Centre's role and responsibilities are:

- To support and help UPM stimulate its commercialization activities from the level of its introduction, development and management for potential projects or research products;
- To commercialize research findings and products as well as to transfer new technology to external parties through various means such as the promotion of intellectual property and venture capital.
- To provide consultancy services to external parties or within the campus and ensure that the interests of these consultants are given due consideration.

- To create and work towards ensuring ample business opportunities through activities like giving concession, directly selling intellectual properties, privatization, exploration of collaborative works and takeovers based on academic activities and UPM's research findings.

Preparing the Research University

At the end of 2006, UPM community once again stood proudly when the Honourable Dato' Mustapha Mohamed, the Minister of Higher Education announced that UPM is classified as one of the main Research Universities in the 9th Malaysian Plan. Three (3) other local universities that are included and named as Research Universities are Universiti Sains Malaysia (USM), Universiti Kebangsaan Malaysia (UKM), and Universiti Malaya (UM). The decision was made by the Cabinet Ministers during their meeting on 11 October 2006. This recognition was awarded based on eight criteria that include quality and quantity of researchers, quality and quantity of research, quality of postgraduates, innovation, professional service and awards, networking, relationships and support facilities available in those universities.

With this classification as Research Universities (RU), these four (4) universities will spearhead advancement in the fields of innovation, inventions, and international standard results in the areas of research. Such achievement is the result of the hard work by UPM personnel especially through their research discoveries and breakthroughs which will gain national and international recognition.

The agenda to holistically transform the field of agriculture is still UPM's prime target. The University believes that by producing highly impactful research discoveries, particularly in the field of agro-bio, its efforts will enhance UPM's role and contributions towards the society and the country.

A few significant issues such as governance, laws and jurisdiction of the Research University are among the major concerns discussed by the people of the University. As a comprehensive and strategic measure, UPM's administration has organized goal-oriented and action planning workshops for the University's senior personnel to ensure that the Government's agenda of establishing Research Universities is triumphant. UPM has indeed determined its action plans and key performance indicators (KPI) which are achievable within three (3) years beginning 2007 to live up to the expectation of being a Research University according to the stipulated criteria.

Physical Development

The University has continuously strived to do its best in providing quality service to its staff, students and its customers. Various steps have been taken to improve the teaching and learning facilities within the University. In 2006, a major development project that was successfully completed in UPM was the Faculty of Medical and Health Sciences Complex. With the establishment of this Complex, the problem of that was previously faced by the University was considerably reduced.

Under the 9th Malaysian Plan, 13 physical development projects have been identified and approved for implementation in UPM. Precise planning and monitoring have been and will continue to guarantee the development projects will be successful and effectively executed.

170 pelajar PhD, 934 Master, 8102 pelajar Bachelor dan Diploma telah berjaya menamatkan pengajian masing-masing dengan jayanya.

Majlis Konvokesyen UPM ke-30 telah disempurnakan oleh Sultan Selangor DYMM Sultan Sharafuddin Idris Shah Alhaj ibni Almarhum Sultan Salahuddin Abdul Aziz Shah Alhaj selaku Canselor Universiti dan oleh Pro-Canselornya iaitu Y.Bhg. Tan Sri Dato' Dr. Nayan Ariffin dan Y.Bhg. Tan Sri Dato' Sri Lim Ah Lek. Perkenan Tuanku Canselor melantik Y.Bhg. Tan Sri Dato' Sri Lim Ah Lek sebagai Pro-Canselor mulai 1 Julai 2006 menggantikan Y.Bhg. Tan Sri Dato' Thong Yaw Hong yang menamatkan lantikan sebagai Pro-Canselor sehingga 30 Jun 2006.

Sebagai mengenang jasa individu yang telah memberikan sumbangan yang cemerlang dalam pembangunan bidang pertanian dan agrobio, Senat Universiti telah bersetuju menganugerahkan dua (2) anugerah Profesor Emeritus dan enam (6) Ijazah Kehormat kepada lapan (8) tokoh terkemuka di dalam dan luar negara. Penganugerahan tersebut telah disempurnakan pada Majlis Konvokesyen UPM ke-30. Tokoh-tokoh yang dimaksudkan seperti yang tertera dalam **Jadual 02**:

Sambutan Jubli Intan 75 Tahun UPM

UPM merayakan sambutan Jubli Intan pada tahun 2006. Pelbagai aktiviti dan seminar antarabangsa telah dijalankan dengan jayanya, termasuklah program bersama Duta-Duta, Seminar/Konferensi Antarabangsa, Pelancaran Pembinaan Menara Jam Warisan Budi Putra, Taman Konservatori Pertanian, Konvokesyen Komemoratif, dan Syarahan Awam Nobel Laurette. Universiti berasa yakin bahawa usaha yang dilaksanakan sempena sambutan Jubli Intan UPM itu akan dapat menyemarakkan semangat kekitaan dalam kalangan warga universiti serta merapatkan hubungan universiti dan alumni serta pihak industri. Acara sambutan ini juga adalah merupakan program promosi yang mampu menyebarkan kejayaan UPM sehingga ke hari ini kepada semua pihak.

Bil.	Nama Penerima
1.	Profesor Emeritus Tan Sri Dato' Dr. Syed Jalaludin bin Syed Salim Profesor Emeritus
2.	Profesor Emeritus Dato' Dr. Hj. Ariffin bin Suhaimi Profesor Emeritus
3.	Profesor Dr. Akira Miyawaki Ijazah Kehormat Doktor Perhutanan
4.	Ke Bawah Duli Yang Maha Mulia Raja Perempuan Kelantan, (Dr.) Tengku Anis binti Almarhum Tengku Abdul Hamid Ijazah Kehormat Doktor Pembangunan Pertanian
5.	Mr. (Dr.) Luc Maene Ijazah Kehormat Doktor Pertanian
6.	Yang Berbahagia Dato' (Dr.) Abu Bakar Mahmud Ijazah Kehormat Doktor Pertanian
7.	Yang Berbahagia Tan Sri Dato' (Dr.) Thong Yaw Hong Ijazah Kehormat Doktor Ekonomi
8.	Dr. John W. Copland Ijazah Kehormat Doktor Sains (Sains Veterinar)

Jadual 02: Penerima Ijazah Kehormat UPM 2006

Penutup

Warga Universiti telah berjaya meningkatkan prestasi dan kecemerlangan UPM di peringkat antarabangsa. Universiti berterima kasih kepada penyelidik yang telah mengharumkan nama Universiti dalam setiap pertandingan dan pameran penyelidikan yang dijalankan, sama ada di dalam dan di luar negara. Namun begitu, saya percaya bahawa kecemerlangan UPM adalah hasil daripada pengemبلengan tenaga semua warga kerja UPM tanpa mengira peringkat dan pangkat, semangat kerja berpasukan dan usaha gigih setiap individu untuk menjayakan misi dan visi universiti. Penghargaan ini juga disampaikan kepada graduan, alumni, dan rakan korporat

Universiti yang turut memberi sokongan terhadap pencapaian cemerlang Universiti ini. Semoga sumbangan dan semangat ini dapat terus dikekalkan dan dipertingkatkan demi mencapai kejayaan yang lebih cemerlang pada masa akan datang.



Awards and Achievements

In the effort to enhance the quality and quantity of research at UPM, its researchers are encouraged to take part in local and international competitions and exhibitions. Besides providing exposure to the researchers to new discoveries by other local and international researchers, such participation can create opportunities for collaboration and networking between UPM and other outstanding international universities. The successes achieved by UPM's researchers at the international level have proven that the quality of research produced is on par, if not far better compared to foreign researchers. Concerted efforts continue to be ploughed in to ensure that the commercialization of UPM's research activities is optimized. With the establishment of the Centre for Innovation and Commercialization, the University's commercial activities will be implemented more systematically, so as to generate income for the University.

Generally, in 2006, UPM had succeeded in winning 23 Awards in the international arena and 61 Awards at the national level.

The 2006 Convocation

UPM's 30th Convocation Ceremony was held in two Sessions. The first was scheduled from 29th to 31st July and the second from 16th to 19th September, 2006. A total of 9,206 graduates consisting of 170 PhDs students, 934 Masters students, 8,102 Bachelors and Diploma students succeeded in completing their studies with flying colours.

The Convocation was graced by the presence of His majesty, Sultan Selangor, HRH Sultan Sharafuddin Idris Shah Alhaj ibni Almarhum Sultan Salahuddin Abdul Aziz Shah Alhaj who is the University's Chancellor along with UPM's Pro-Chancellors, namely Y.Bhg. Tan Sri Dato' Sri Nayan Ariffin and Y.Bhg. Tan Sri Dato' Sri Lim Ah Lek. HRH Chancellor has granted his blessing for the appointment of Y.Bhg. Tan Sri Dato' Sri Lim Ah Lek as Pro-Chancellor beginning 1 July 2006. Tan Sri Dato' Sri Lim Ah Lek succeeds Y.Bhg. Tan Sri Dato' Thong Yaw Hong who has finished his term as Pro-Chancellor of UPM until 30 June 2006.

In order to honour the invaluable contributions of particular individuals to the development of the agricultural and agro-bio industries, the University's Senate had agreed to award two (2) Professor Emeritus and six (6) Honorary Doctorates to eight local and international outstanding personalities.

This Award Giving Ceremony was part of the highlights of UPM's 30th Convocation Ceremony. The exceptional recipients are illustrated in the following table.

UPM's 75th Year Anniversary - Diamond Jubilee Celebrations

UPM's Diamond Jubilee was celebrated in 2006. A variety of activities and international seminars were successfully held. These included a Programme with Ambassadors, International Seminars/Conferences, the Launching of the 'Warisan Budi

No.	Recipients
1.	Profesor Emeritus Tan Sri Dato' Dr. Syed Jalaludin bin Syed Salim Profesor Emeritus
2.	Profesor Emeritus Dato' Dr. Hj. Ariffin bin Suhaimi Profesor Emeritus
3.	Profesor Dr. Akira Miyawaki Honourary Doctorate in Forestry
4.	Ke Bawah Duli Yang Maha Mulia Raja Perempuan Kelantan, (Dr.) Tengku Anis binti Almarhum Tengku Abdul Hamid Honourary Doctorate in Agricultural Development
5.	Mr. (Dr.) Luc Maene Honourary Doctorate in Agriculture
6.	Yang Berbahagia Dato' (Dr.) Abu Bakar Mahmud Honourary Doctorate in Agriculture
7.	Yang Berbahagia Tan Sri Dato' (Dr.) Thong Yaw Hong Honourary Doctorate in Economics
8.	Dr. John W. Copland Honourary Doctorate in Science (Veterinary Science)

Table 02: Recipients of UPM's Honorary Accolades for 2006

Putra' Clock Tower, the Agriculture Conservatory Park, the Commemorative Convocation, and the Nobel Laureates Public Lecture. The University is certain that the efforts made in conjunction with UPM's Diamond Jubilee will trigger the spirit of oneness among UPM's community and foster stronger ties between the University, the alumni and associates from the various related industries. These celebrations were indirectly a strategic way to widely promote and update the public about UPM's numerous current successes.

Conclusion

UPM's community has succeeded in significantly increasing its achievements and its standards of excellence at the international level. UPM extends its heartfelt appreciation to all dedicated researchers who have helped to heighten UPM's status at the various local and international competitions and research exhibitions. On the other hand, I believe that UPM's excellent achievements were the result of the consolidated efforts of its entire workforce, regardless of their level or position, as well as the teamwork and dedication of every individual who has committed themselves to making our mission and vision a success. This tribute is also dedicated to all the graduates, the alumni and the University's corporate associates who have given their support towards the achievement of these successes. I sincerely hope that such contributions and commendable spirit will continue and flourish to ensure even greater achievements in the future.





Sambutan Jubli Intan 75 Tahun Universiti Putra Malaysia

Universiti Putra Malaysia 75 Years Anniversary

- Diamond Jubilee Celebrations

Universiti Putra Malaysia telah meraikan Sambutan 75 Tahun UPM pada tahun 2006 sebagai usaha untuk memperingati penubuhan UPM pada 21 Mei 1931 apabila Sekolah Pertanian ditubuhkan. Prapelancaran Sambutan Perayaan tersebut telah dilakukan oleh Yang Berbahagia Tan Sri Dato' Thong Yaw Hong, Pro-Canselor UPM pada 6 Januari 2006, manakala Majlis Pelancaran Utama Sambutan ini pula telah disempurnakan oleh Duli Yang Maha Mulia Sultan Sharafuddin Idris Shah Alhaj Ibni Almarhum Sultan Salahuddin Abdul Aziz Shah Alhaj, Tuanku Canselor UPM pada 23 Mei 2006. Pelbagai program sambutan disusun sepanjang tahun yang dijayakan oleh komuniti kampus dan dirai bersama masyarakat luar kampus. Tema Sambutan adalah berdasarkan Moto UPM iaitu "Berilmu Berbakti".

*Tema Sambutan adalah berdasarkan
Moto UPM iaitu "Berilmu Berbakti"*

Pengisian Program

Projek Peringatan Sambutan 75 Tahun UPM:

- **Pembinaan Menara Jam Warisan Budi Putra**

Pembinaan Menara Jam Warisan Budi Putra yang mempunyai ketinggian 10 paras di mana pada paras ke 7 terdapat anjung tinjau (*viewing platform*) ini akan menjadi mercu tanda kegemilangan dan lambang kemegahan komuniti UPM terhadap alma mater. Kos pembinaan Menara ini ditampung oleh dana penjualan jubin kepada komuniti kampus termasuk pelajar, staf, alumni serta rakan universiti, orang perseorangan, serta organisasi luar menerusi kempen dan program kutipan yang dianjurkan.

- **Taman Konservatori Pertanian**

Sempena Sambutan 75 Tahun UPM, Taman Konservatori Pertanian telah dibina sebagai sebuah Taman rujukan bagi aktiviti penyelidikan, pembelajaran dan rekreasi alam. Taman tersebut kini mempunyai 570 spesies tumbuhan terdiri daripada tumbuhan asli dan eksotik. Taman ini dibahagikan kepada 11 zon mengikut fungsi, kegunaan dan jenis tumbuhan seperti halia dan kunyit, herba, paku-pakis, tumbuhan akuatik, orkid liar, periuk kera, keladi, rempah ratus, tumbuhan wangian dan buah-buahan liar. Taman ini juga dilengkapi dengan infrastruktur rekreasi seperti wakaf, kolam, rumah hijau dan laluan pejalan kaki. Taman ini juga dibuka untuk orang ramai bagi tujuan pembelajaran dan rekreasi.

- **Penanaman 75 Pokok Palma Serdang**

Satu taman peringatan akan dibina di kawasan berhampiran

Dusun Contoh UPM bagi memperingati 75 Tahun Penubuhan UPM. Taman ini akan ditanam dengan 75 pokok Palma Serdang (*Livistona Rotundifolia*) dan penempatan Taman ini adalah berhampiran dengan Menara Jam Warisan Budi Putra kerana kedua-duanya adalah lengkap melengkapi sebagai warisan sejarah UPM untuk dihayati oleh generasi kini dan akan datang.

Penerbitan Sempena Sambutan 75 Tahun UPM:

- **The 75 Jewels of UPM**

Buku ini memuatkan biodata dan wajah 75 tokoh alumni dari dalam dan luar negara yang telah mencipta nama dalam bidang kerjaya masing-masing. Biodata tokoh-tokoh alumni terpilih ini bakal menjadi pencetus minat generasi muda untuk berjuang ke arah kejayaan dalam bidang masing-masing.

- **The Journey of the Mind**

Buku berkonsepkan *coffee table book* ini memuatkan maklumat dan gambar-gambar perkembangan dan kejayaan UPM dalam bidang pengajaran, penyelidikan dan khidmat profesional dahulu dan sekarang. Buku ini juga memaparkan sumbangan UPM dalam bidang pertanian.

Program Sambutan 75 Tahun UPM

Beberapa program yang dianjurkan di peringkat universiti, Pusat Tanggungjawab dan pelajar telah dimasukkan ke dalam kalendar sambutan 75 Tahun UPM seperti mana di **Jadual 03**.

Tarikh	Program
28 November 2005	Majlis Perasmian Logo Jubli Intan
6 Januari 2006	Majlis Pra-Pelancaran Sambutan Jubli Intan
6 Januari 2006	Program Festival Perayaan KPZ
22 Januari 2006	Kejohanan Cyclethon 2006
3 - 15 Januari 2006 10 - 12 Februari 2006 17 - 19 Februari 2006	Kejohanan Sukan Kolej UPM Fasa 1 & 2
19 - 22 Januari 2006	Karnival KMR 2006
3 Februari 2006	Majlis Makan Malam Rejimental
9 Februari 2006	Program "A Half Day Promotion Meeting With Foreign Ambassadors and High Commissioners"
10 Februari 2006	Majlis Malam Seri Perdana 2006
1 Mac 2006	Malam Harapan Putra Negara
6 Mac 2006	Forum Agromac: Input Mekanisasi dan Pengautomatan Dalam Sektor Pertanian & makanan: Peluang & Cabaran Masa Kini Seminar Quality of Life After Stroke
9 Mac 2006	Syarahan Awam Yayasan Pak Rashid oleh Tan Sri Dato' Seri (Dr) Ahmad Sarji bin Abdul Hamid Tajuk: "Corporate Sector And Agriculture"
9 Mac 2006	Khazanah Hutan Hujan: Perspektif Orang Melayu
21 - 23 Mac 2006	International Conference on Agricultural Waste: Turning Wastes Into Wealth
15 Mac / Mei / Jun / Julai / Ogos / Disember 2006	Langkawi Award Winner Series I,II,III,IV, V & VI
18 Mac 2006	Malam Tradisi Sastera Rakyat ke-21
19 Mac 2006	Seminar Pengajian Tinggi Bahasa Melayu

Universiti Putra Malaysia celebrated its UPM 75 Years Celebration on 2006 to commemorate the founding of UPM on 21 May 1931 when the School of Agriculture was established. The pre-launching of the Celebration was carried out by Yang Berbahagia Tan Sri Dato' Thong Yaw Hong, UPM Pro-Chancellor on 6 January 2006, whereas the Launching of the Main Celebration Ceremony was done by His Highness Sultan Sharafuddin Idris Shah Ibnu Almarhum Sultan Salahuddin Abdul Aziz Shah Al-Haj, UPM Chancellor on 23 May 2006. Ample programmes were carried throughout the year to be celebrated together with the surrounding community which carried the theme of the UPM Motto "With Knowledge We Serve".

Programmes

Projects in Commemorating UPM 75 Years Celebration:

- **The Building of the Warisan Budi Putra Clock Tower**

The building of the Warisan Budi Putra Clock Tower, which has the height of ten levels consists of a viewing platform at level 7, will become the greatest landmark in portraying UPM glory and honour as an Alma Mater. The cost of its construction is covered by the funds being raised from selling



tiles to the campus community including the students, staff, alumni and university colleagues, individuals and outside organizations through campaigns and fund collection programmes.

Date	Programme
28 November 2005	Diamond Jubilee Logo Officiating Ceremony
6 January 2006	Diamond Jubilee Pre-Launching Celebration
6 January 2006	KPZ Festival Programme
22 January 2006	2006 Cyclethon Tournament
3-15 January 2006	UPM Inter College Tournament (Phase 1 & 2)
10-12 February 2006	
17-19 February 2006	
19-22 January 2006	2006 KMR Carnival
3 February 2006	Regimental Ceremonial Dinner
9 February 2006	A Half-Day Promotional Meeting With Foreign Ambassadors and High Commissioners Programme
10 February 2006	2006 Seri Perdana Gala Dinner
1 March 2006	Harapan Putra Negara Night
6 March 2006	Agromac Forum: Mechanization and Automation Input in Agriculture and Food Sector: Current Opportunities and Threats Seminar: Quality of Life After Stroke
9 March 2006	Pak Rashid Foundation Public Lecture by Tan Sri Dato' Seri (Dr.) Ahmad Sarji bin Abdul Hamid Title: Corporate Sector And Agriculture
9 March 2006	Rain Forest Treasures: The Malays' Perspective
21 - 23 March 2006	International Conference on Agricultural Waste: Turning Wastes Into Wealth
15 March / May / June / July / August / December 2006 24 March 2006	Langkawi Award Winner Series I, II, III, IV, V & VI
18 March 2006	21st Folk Art Tradisional Night
19 March 2006	Higher Education Seminar in Malay Language

Tarikh	Program
24 Mac 2006	Majlis malam Akademia Putra 2006
30 Mac - 1 April 2006	Hari Promosi Siswazah UPM 2006
4 April 2006	Majlis Apresiasi Atlet UPM
7 April 2006	Sambutan Ulang Tahun INSPEM Ke-4
12 April 2006	Anugerah Naib Cancellor
12 - 14 April 2006	Bengkel Kultura Sel Haiwan 2006
14 - 16 April 2006	Hari Kerjaya
8 - 10 Mei 2006	MICELT International Conference on English Language Teaching
9 - 10 Mei 2006	Seminar Kebangsaan Memperingati 600 Tahun Ibn Khaldun: Pemikiran Ibn Khaldun & Relevansinya Dalam Tamadun Komtemporari
15 - 20 Mei 2006	Pertandingan Debat Bahasa Inggeris 'The Great Serdang Debating Championship 2006'
16 - 17 Mei 2006	Lecture & Workshop on a Sustainable Design Tool
23 Mei 2006	Majlis Pelancaran Utama Sambutan 75 Tahun UPM disempurnakan oleh Duli Yang Maha Mulia Sultan Sharafuddin Idris Shah Alhaj Ibn Almarhum Sultan Salahuddin Abdul Aziz Shah Alhaj, Tuanku Cancellor UPM
28 Mei - 2 Jun 2006	Kejohanan Sukan Staf Antara IPTA
7 Jun 2006	Persembahan Muzik Tradisional dan Budaya Malaysia (diadakan bersama semasa Majlis Pelancaran Sudut Santai Seni)
7 - 11 Jun 2006	Bakti Putra (BARA)
6 Julai 2006	Majlis Kesyukuran 75 Tahun UPM
14 Julai 2006	Program "Lakaran Sebagai Suatu Ekspresi" oleh Persatuan Pelukis UPM
18 - 20 Julai 2006	Pameran Rekacipta, Penyelidik dan Inovasi
26 Julai 2006	Penubuhan dan Pelancaran Kiosk Usahawan Putra
29 Julai - 1 Ogos 2006	Konvokesyen Komemoratif
16 - 19 September 2006	
31 Julai - 2 Ogos 2006	PETCT Program: <i>Meet The Expert Session</i>
1 - 2 Ogos 2006	International Conference " Exploring New Frontiers in Medicine & Health"
8 - 10 Ogos 2006	5th International Malaysian Studies Conference (MSC5)
12 - 13 Ogos 2006	Kejohanan Sukan Integrasi Pelajar UPM 2006
15 - 18 Ogos 2006	Pameran " <i>Seeds of Change: Educational for a Sustainable Future</i> "
16 - 18 Ogos 2006	Pertandingan Nyanyian Solo lagu-Lagu Patriotik
21 - 24 Ogos 2006	2nd Malaysian Conference on Catalysis (MyCat 2) Regional 19th Malaysian Analytical Chemistry Symposium (SKAM 19)
22 - 23 Ogos 2006	Konferensi Kebangsaan Matematik Biologi 2006 (KKBM)
1 - 5 September 2006	Karnival Rekreasi Rakan Muda UPM
3 - 4 September 2006	Seminar Kebangsaan MACFEA ke -11
4 - 9 September 2006	Simposium 'Trends in Biotechnology 3'
5 September 2006	14th Conference on Biocomposite Products " Charting New Dimensions for the Wood - Based Industry
5 - 6 September 2006	Research & Industry Forum: National Economy Catalyst

Dates	Program
24 Mac 2006	2006 Akademia Putra Gala Dinner
30 Mac - 1 April 2006	2006 UPM Graduates Promotional Day
4 April 2006	UPM Athlete Appreciation Ceremony
7 April 2006	4th INSPEM Anniversary Celebration
12 April 2006	Vice Chancellor Award
12 - 14 April 2006	2006 Animal Cell Culture Workshop
14 - 16 April 2006	Career Day
8 - 10 Mei 2006	MICELT International Conference on English Language Teaching
9 - 10 Mei 2006	A National Convention in Commemorating 600 Years of Ibn Khaldun: Ibn Khaldun's Thinking & Its Relevancy Towards Contemporary Civilization
15 - 20 Mei 2006	The Great Serdang Debating Championship 2006
16 - 17 Mei 2006	Lecture & Workshop on a Sustainable Design Tool
23 Mei 2006	The Main Launching Ceremony of UPM 75 Years Celebration officiated by His Highness Sultan Sharafuddin Idris Shah Alhaj Ibni Almarhum Sultan Salahuddin Abdul Aziz Shah Alhaj The Chancellor of University Putra Malaysia
28 Mei - 2 Jun 2006	Sports Staff Tournament Among PHEI
7 Jun 2006	Traditional Music and Malaysian Culture Presentation (being held together during the Launching Ceremony of Sudut Santai Seni)
7 - 11 Jun 2006	Bakti Putra (BARA)
6 Julai 2006	UPM 75 Years Thanksgiving Ceremony
14 Julai 2006	Programme "Lakaran Sebagai Suatu Ekspresi" by UPM Artist Society
18 - 20 Julai 2006	Exhibition of Invention, Research and Innovation
26 Julai 2006	Establishment and Launching of Putra Entrepreneurs Kiosk
29 Julai - 1 Ogos 2006	UPM Commemorative Convocation
16 - 19 September 2006	
31 Julai - 2 Ogos 2006	PETCT Programme: Meet The Expert Session
1 - 2 Ogos 2006	International Conference on Exploring New Frontiers in Medicine & Health
8 - 10 Ogos 2006	5th International Malaysian Studies Conference (MSC5)
12 - 13 Ogos 2006	2006 UPM Student Integration Sports Tournament
15 - 18 Ogos 2006	Seeds of Change: Educational for a Sustainable Future Exhibition
16 - 18 Ogos 2006	Patriotic Songs Solo Singing Content
21 - 24 Ogos 2006	2nd Malaysian Conference on Catalysis (MyCat 2) Regional 19th Malaysian Analytical Chemistry Symposium (SKAM 19)
22 - 23 Ogos 2006	National Conference on Mathematical Biology 2006 (NCMB)
1 - 5 September 2006	UPM Youth Recreational Carnival
3 - 4 September 2006	11th MACFEA National Seminar
4 - 9 September 2006	Trends in Biotechnology 3 Symposium
5 September 2006	14th Conference on Biocomposite Products "Charting New Dimensions for the Wood - Based Industry
5 - 6 September 2006	Research & Industry Forum: National Economy Catalyst

Tarikh	Program
5 - 6 September 2006	Konferensi Kebangsaan Permodelan Matematik dan Statistik
7 - 10 September 2006	Program Jalinan Rakan Ekologi 2006 (JARAE)
12 September 2006	Seminar on Commercialization and Globalization of University Intellectual Property Rights (IPR)
28 - 29 September 2006	National Conference in Cryptology 2006 (NCC06)
3 - 5 November 2006	5th Asian Conference of the Academy of Human Resource Development 2006
18 - 19 November 2006	Persidangan Penuaan dan Pembangunan Negara: Hidup di Hari Tua
12 - 15 Disember 2006	Kongress Pertanian 2006: <i>Agriculture for Life and Wealth Creation</i>
17 - 19 Disember 2006	Workshop on Precision Farming
19 - 21 Disember 2006	Konferensi Sains Sukan Antarabangsa

Program utama di peringkat Universiti

- Program Promosi Setengah Hari di UPM Bersama-sama Duta, Pesuruhjaya Tinggi dan Konsulat Asing Di Malaysia.**

Promosi Setengah Hari Bersama Duta, Pesuruhjaya Tinggi dan Konsulat Asing di Malaysia telah diadakan pada 9 Februari 2006 di UPM. Program ini diisi dengan persembahan multimedia dan pameran mengenai UPM, penerangan tentang program akademik dan bidang penyelidikan Universiti serta para tetamu dibawa untuk satu lawatan berpandu ke kampus dan Taman Konservatori Pertanian. Satu program khas untuk para pasangan (isteri/suami) kepada Duta, Pesuruhjaya Tinggi dan Konsulat juga telah disusun seperti demonstrasi pembikinan animasi multimedia oleh Institut Multimedia, melawat Putra FM dan demonstrasi membuat port puri dari bahan tempatan.

- Kejohanan Sukan Staf antara Universiti Malaysia ke-31, 2006 di Universiti Putra Malaysia**

Kejohanan Sukan Staf antara Universiti Malaysia ke-31 telah diadakan pada 14 Mei sehingga 21 Mei 2006 yang telah disertai oleh 17 Institusi Pengajian Tinggi Awam (IPTA). Kejohanan ini merupakan acara sukan tahunan IPTA di mana pada tahun 2006 UPM telah dipilih sebagai hos kepada kejohanan ini. Memandangkan UPM meraikan Sambutan 75 Tahun penubuhannya pada tahun tersebut maka Kejohanan ini telah dijadikan sebagai salah satu acara sambutan. Sebanyak 27 acara sukan telah dipertandingkan yang melibatkan 2500 staf dari semua IPTA terbabit.

- Syarahen Umum Nobel Laureate**

Salah satu acara kemuncak Sambutan 75 Tahun UPM adalah penganjuran Syarahan Umum Nobel Laureate oleh Dr. Peter C. Agre dari Duke University, USA. Beliau merupakan penerima anugerah Nobel Laureate dalam bidang Kimia pada 2003.



Date	Programme
5 - 6 September 2006	Mathematics Model and Statistics National Conference
7 - 10 September 2006	Programme "Jalinan Rakan Ekologi 2006" (JARAE)
12 September 2006	Seminar on Commercialization and Globalization of University Intellectual Property Rights (IPR)
28 - 29 September 2006	National Conference in Cryptology 2006 (NCC06)
3 - 5 November 2006	5th Asian Conference of the Academy of Human Resource Development 2006
18 - 19 November 2006	Seminar on Ageing and Development: Increasing the Quality of Life
12 - 15 December 2006	Kongress Pertanian 2006: Agriculture for Life and Wealth Creation
17 - 19 December 2006	Workshop on Precision Farming
19 - 21 December 2006	International Sports Sciences Conference

Schedule 03: UPM 75 Years Celebration Programmes

• **Agriculture Conservatory Park**

In accordance to UPM 75 Years Celebration, the Agriculture Conservatory Park has been built as a reference park for research, learning and recreational activities. This park has 570 exotic species of plants and been divided to 11 zones according to their functions, usage and types such as ginger and turmeric, herbs, ferns, aquatic plants, wild orchids, pitcher plants, yam trees, spices, fragrant plants and wild fruits. This park is also equipped with recreational infrastructure such as wakaf, ponds, green houses and pedestrian walk. This park is also opened to public for learning and recreational purposes.

• **The Planting of 75 Serdang Palm Trees**

A commemorative park will be built nearby to the UPM Sample Orchard to commemorate UPM 75 Years Establishment. This park will be planted with 75 Serdang Palm trees (*Livistona rotundifolia*) and this park will be located nearby to Warisan Budi Putra Clock Tower as both monuments shall complement each other as UPM historical landmarks for future generations to come.

Publication in Accordance to UPM 75 Years Celebration:

• **The 75 Jewels of UPM**

This book will include the biography and photographs of UPM 75 alumni either from Malaysia or from other countries whom have established their names in their particular fields. These chosen alumni are hoped to be a booster to younger generations in accomplishing success.

• **The Journey of the Mind**

This book which has the concept of a coffee table book contains information and photographs on UPM success and achievements in earlier teaching, research and professional services until now. This book also portrays UPM major contribution in agriculture.

UPM 75 Years Celebration Programmes

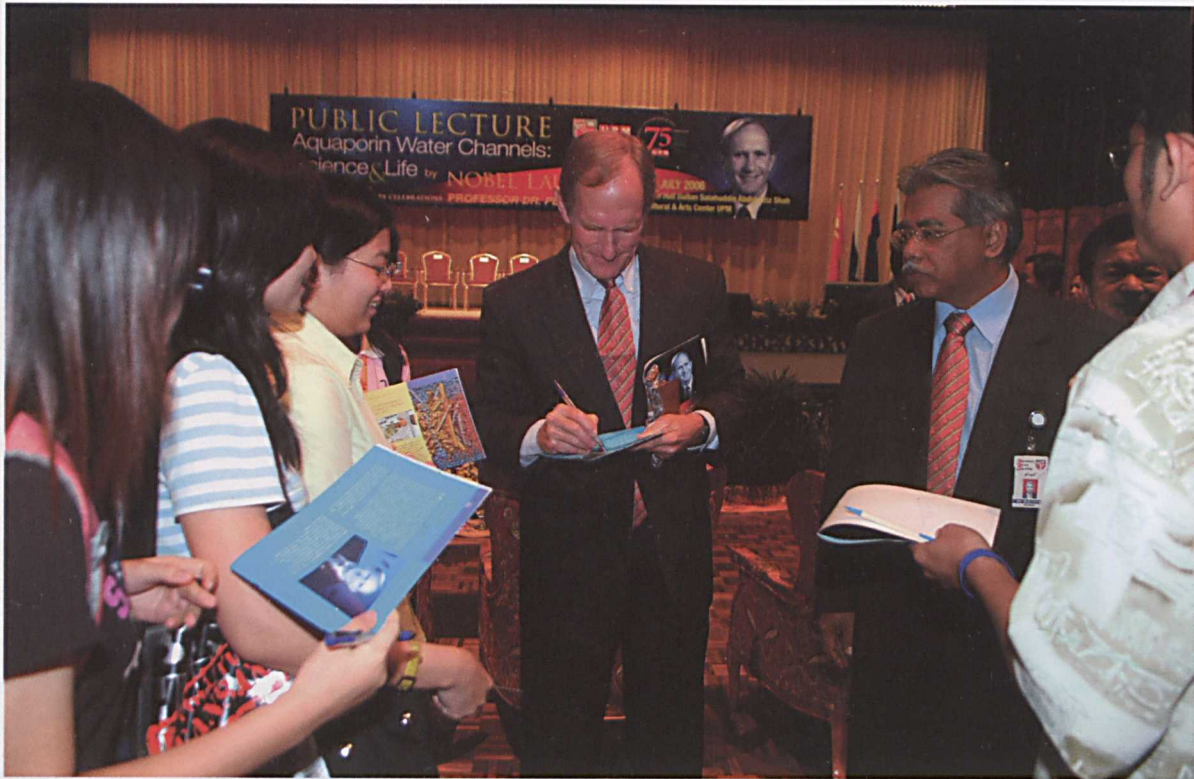
Numerous programmes had been organized during the academic year as scheduled in **Schedule 03**.

Major Programmes at the University level:

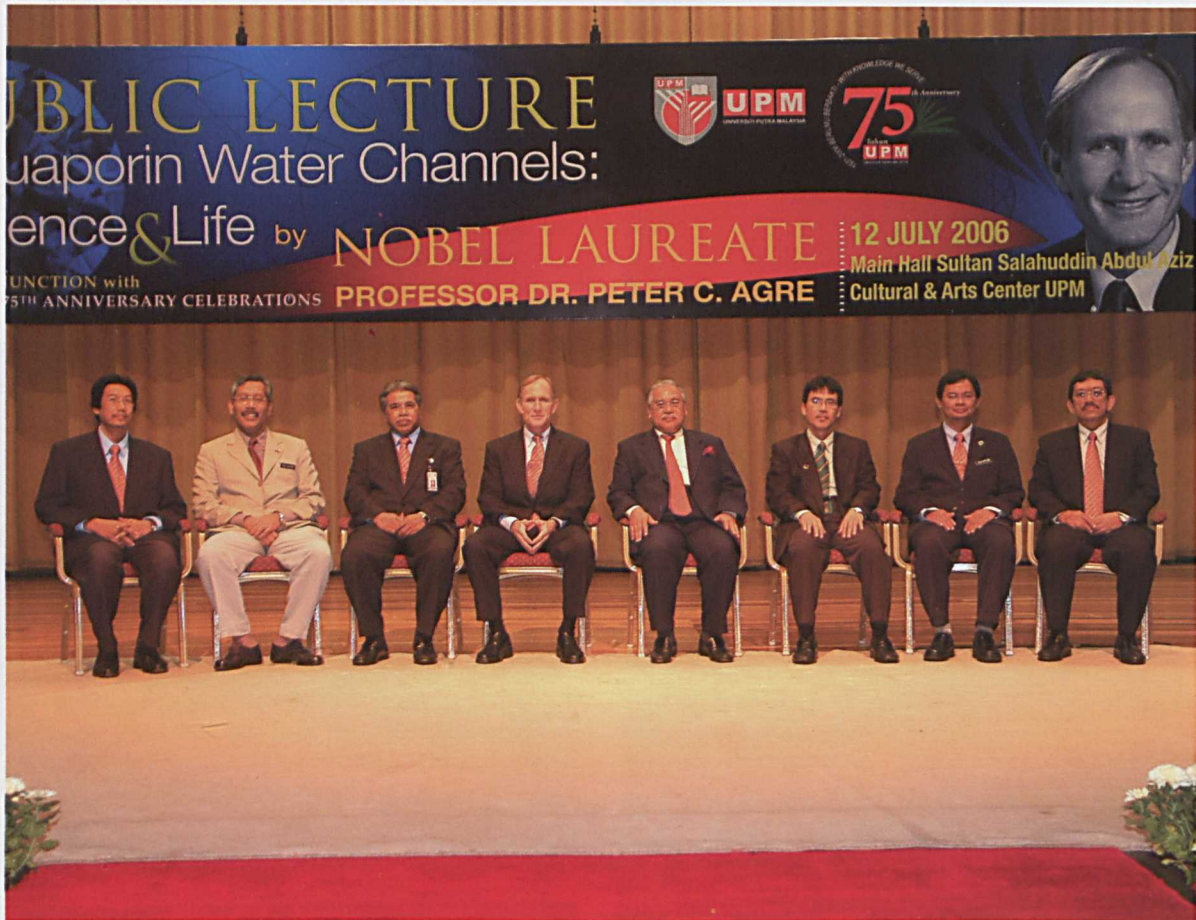
• **A Half-Day UPM Promotional Meeting With Foreign Ambassadors, High Commissioners and Foreign Consulate in Malaysia**

A Half-Day UPM Promotional Meeting With Foreign Ambassadors, High Commissioners and Foreign Consulate in Malaysia was held on 9 February 2006 at UPM. The programme was filled with multimedia presentation and exhibition about UPM, explanation on academic programmes and the University's research fields, and the guests were brought around the campus and to the Agriculture Conservatory Park. A special programme for the partners (husband/wife) of the Ambassadors, High Commissioners and Consulate were arranged such as a demonstration on the making of multimedia animation by the Multimedia and Software Institute (currently known as InfoComm Development Centre or iDEC), visiting Putra FM and a demonstration on making potpourri using local contents.





Beberapa siri program telah diatitkan sempena dengan kehadiran Dr. Peter C. Agre di UPM dari 11 sehingga 16 Julai 2006. Program tersebut adalah Syarahan Umum Nobel Laureate oleh Dr. Peter C. Agre bertajuk "Aquaporin Water Channels: Science and Life" yang diadakan pada 12 Julai 2006, program Seminar Khas bertajuk "Aquaporins: From Atomic Structure to Clinical Medicine" pada 13 Julai 2006 dan Ceramah Motivasi bertajuk "The Road to Stockholm: Making the Most of a Life in Science" pada 13 Julai 2006. Selain itu, Dr. Peter C. Agre juga telah melawat Fakulti Perubatan dan Sains Kesihatan, Fakulti Perubatan Veterinar dan Institut Biosains.



- **2006 Staff Sports Tournament among Malaysian Universities at Universiti Putra Malaysia:**

31st Staff Sports Tournament among Malaysian Universities were held from 14 May to 21 May 2006 and were participated by 17 public higher education institution (PHEI). This tournament is a PHEI annual sports event where in 2006, UPM was chosen as the host. As UPM was currently celebrating its 75 Years Celebration of its establishment, the tournament became one of the celebrating events. 27 sports events were being competed involving 2500 staff from all the PHEI involved.

- **Nobel Laureate Public Lecture**

One of the major events during the UPM 75 Years Celebration was the Nobel Laureate Public Lecture by Dr. Peter C. Agre from Duke University, USA. He was a Nobel Laureate recipient in the Chemistry field on 2003.

A series of programme were arranged from 11 to 16 July 2006. The programmes were the Nobel Laureate Public Lecture by Dr. Peter C. Agre entitled "Aquaporin Water Channels: Science and Life" which was held on 12 July 2006, a Special Seminar programme entitled "Aquaporins: From Atomic Structure to Clinical Medicine" on 13 July 2006 and a Motivational Talk entitled "The Road to Stockholm: Making the Most of a Life in Science" on 13 July 2006. Besides that, Dr. Peter C. Agre also visited the Faculty of Medicine and Health Science, Faculty of Veterinary Medicine and Institute of Bioscience.





Gemilang Pertanian

Outstanding Achievements in Agriculture

Gagasan Penyelidikan Baharu ke Arah Kemajuan Pertanian

Untuk merealisasikan hasrat YAB Perdana Menteri dan Kerajaan Malaysia, UPM telah giat berusaha untuk menjadi Pusat Kecemerlangan Pendidikan Pertanian Negara. Justeru, tindakan yang dijalankan oleh UPM ialah dengan mewujudkan enam (6) gagasan penyelidikan baharu untuk memantapkan kecemerlangan aktiviti penyelidikannya. Enam (6) gagasan tersebut melibatkan bidang yang berikut ialah:

- Pertanian
- Makanan
- Perhutanan dan Alam Sekitar
- Kesihatan
- Sains Sosial
- Sains, Teknologi dan Kejuruteraan

Keenam-enam gagasan ini memberikan fokus utama dalam lapan (8) bidang tumpuan penyelidikan, iaitu selaras dengan penekanan kerajaan terhadap pembangunan dan agenda pertanian negara. Lapan (8) bidang tumpuan tersebut ialah:

- Pengeluaran Tanaman Makanan
- Tanaman Perladangan
- Pengeluaran Peternakan dan Akuakultur
- Bio-Kesihatan
- Pengeluaran Produk Bio Nilai Ditambah
- Tenaga Alternatif yang Boleh Diperbaharui
- Produk dan Perkhidmatan Perhutanan
- Produk Halal



UPM juga telah menamakan semula pusat sedia ada kepada Pusat Pengembangan, Keusahawanan dan Pemajuan Profesional (APEEC) yang merupakan hasil gabungan Pusat Pemajuan Profesional (PACE), Pusat Pembangunan Usahawan Tani dan Institut Pengembangan Pertanian (AGROPAC) untuk bergiat aktif dalam aktiviti dan kerja pengembangan



Bidang tumpuan ini dipilih dengan mengambil kira aspek rantaian nilai sesuatu aktiviti penyelidikan dari aktiviti hulu hingga aktiviti hiliran; penyelidikan yang tersohor di mana UPM mempunyai kepakaran yang kompetitif dan *criticalmass*, penyelidikan yang merentas disiplin; dan bidang *niche* dalam penyelidikan yang dijalankan dan dipelopori oleh institut-institut yang berkaitan.

Dalam era persaingan kini, setiap tindakan dan keputusan yang dibuat mestilah terarah kepada penambahbaikan dan peningkatan daya saing Universiti di peringkat nasional dan antarabangsa. Persaingan memainkan peranan utama untuk memastikan pencapaian kualiti UPM berada pada tahap yang paling tinggi untuk meraih kejayaan. Proses rasionalisasi adalah merupakan satu kemestian yang harus dilaksanakan. Untuk mendepani cabaran dan berteraskan amanah yang diberikan kepada UPM, proses rasionalisasi ini adalah untuk mengukuhkan kedudukan UPM di arena antarabangsa. Dalam proses ini, peranan dan fungsi Institut atau Pusat telah dikaji semula dan diharmonikan sejajar dengan objektif terkini UPM. UPM juga menggariskan kriteria yang jelas dan menunjukkan proses kematangan sesuatu aktiviti penyelidikan dan sumber manusia yang terlibat di Institut, Pusat Kecemerlangan, dan Fakulti. UPM mengharapkan melalui pelaksanaan gagasan-gagasan ini akan membolehkan UPM meneroka dan memperoleh penemuan-penemuan baharu untuk membina ketamadunan negara, dan boleh juga memberi sumbangan kepada pembinaan yang bersifat futuristik.

Penstrukturan Semula Institut dan Pusat Kecemerlangan Pertanian

UPM telah mengenal pasti Institut atau Pusat yang bertanggungjawab menerajui kepimpinan dalam penyelidikan lapan (8) bidang tumpuan di atas. Terdapat satu (1) Institut baharu ditubuhkan, iaitu Institut Pertanian Tropika, satu (1) Institut yang merupakan hasil gabungan beberapa Institut yang sedia ada, iaitu Institut Pengajian Sains Sosial, dan penamaan semula nama dua (2) Institut sedia ada berdasarkan gabungan Akademi Hutan Hujan Tropika dan Institut Biokomposit Tropika kepada Institut Perhutanan Tropika dan Produk Hutan. Institut ini menumpukan kajian secara serius dengan memperkenalkan industri semeian hutan tropika yang boleh memberi pendapatan kepada negara selain usaha untuk melestarikan alam sekitar. Biodiversiti yang ada di negara ini perlu dimanfaatkan dengan sebaik mungkin dan di sinilah peranan UPM untuk memimpin negara ke arah itu. UPM perlu membantu negara untuk mengorak langkah bagi memperkasa sektor pertanian, dan pada waktu yang sama menghijaukan alam sekitar.



Di samping itu, UPM juga telah menamakan semula pusat sedia ada kepada Pusat Pengembangan, Keusahawanan dan Pemajuan Profesional (APEEC) yang merupakan hasil gabungan Pusat Pemajuan Profesional (PACE), Pusat Pembangunan Usahawan Tani dan Institut Pengembangan Pertanian (AGROPAC) untuk bergiat aktif dalam aktiviti dan kerja pengembangan.

UPM juga terus mengekalkan Institut Kajian Dasar Pertanian dan Makanan yang berperanan sebagai jurubicara kepada isu dasar yang melibatkan lapan (8) bidang tumpuan, gagasan dan juga isu berkaitan dengan Dasar Pertanian dan Makanan Negara.

Pameran MAHA 2006

Malaysia Agriculture, Horticulture and Agro-tourism Show (MAHA 2006) diadakan di Malaysia Agro-Exposition Park (MAEPS), MARDI, Serdang, Selangor pada 21-26 November 2006. MAHA 2006 merupakan pameran pertanian terbesar di Asia Tenggara yang dianjurkan oleh Lembaga Pemasaran Pertanian Persekutuan (FAMA) dan MATRADE dengan tema, "Pertanian Satu Perniagaan". Pameran ini bertindak sebagai pelengkap terhadap usaha kerajaan untuk menjadikan Malaysia sebagai pusat kecemerlangan pertanian dan industri asas tani dengan memperlihatkan kejayaan teknologi dan inovasi terkini dalam pasaran antarabangsa.



Pameran UPM bertemakan 'UPM Penjana Ilmu Pertanian Berteknologi Tinggi' telah menampilkan enam (6) kelompok pameran, iaitu Kelompok Pengeluaran Tanaman dan Haiwan / Ternakan, Kelompok Pengawalan Penyakit Tanaman dan Haiwan / Ternakan, Kelompok Pemprosesan dan Pascatuai, Kelompok Pertanian Persis, Kelompok Bio-Kesihatan dan Kelompok Polisi dan Pengembangan dan Keusahawanan. Sebanyak 28 produk penyelidikan sedia dikomersilkan oleh UPM telah dipamerkan.

Gerai pameran UPM telah berjaya mendapat tempat kedua bagi kategori Jabatan dan Agensi Kerajaan.

Pameran Agrobio

Sempena Majlis Konvokesyen UPM ke-30 Sidang Pertama pada 27 Julai – 1 Ogos 2006, UPM telah mengadakan Ekspo Tani Konvokesyen selama enam (6) hari bertujuan untuk mempamerkan kemajuan hasil penyelidikan universiti dalam sektor pertanian. Ekspo yang bertemakan 'Gemilang Pertanian' telah menyediakan satu gerai tumpuan khas yang dinamakan

New Research Platforms towards the Enhancement of Agriculture

To attain the aspiration of the Prime Minister and the Government, UPM has channeled all its endeavours to become the National Centre for Educational Excellence in Agriculture. Hence, the measures taken by UPM were to introduce six (6) new platforms for research aimed at significantly raising the standards of excellence in its research activities. The six (6) platforms are in the following fields:

- Agricultural
- Food
- Forestry and Environment
- Health
- Social Science
- Science, Technology and Engineering

These six (6) platforms focus their research mainly on eight (8) research-oriented areas, which are in line with the Government's emphasis on development and the national agricultural agenda. The eight (8) focused areas are:

- Food Crop Production
- Plantation Crops
- Animal and Aquaculture Production
- Bio-Health
- Value Added Bio Products
- Alternative Renewable Energy
- Forest Products and Services
- Halal Products

These focused areas were chosen after taking into consideration aspects like the value chain of a certain research from its upstream to downstream activities, the cutting edge research that reflects UPM's competitive and critical mass expertise, the interdisciplinary research, and the niche areas in current research pioneered by its related institutions.

In this competitive era, every action and decision made should aim towards outstanding improvements and increasing competitiveness of UPM locally and globally. Competitions play an important role in ensuring that UPM's quality achievements are at the highest of levels to attain success. The rationalization process is an integral part and should always be carried out. In order to face challenges and shoulder the responsibility entrusted to UPM, this rationalization process will help strengthen UPM's position at the international arena. In this process, the Centre or Institute's function and role have been reviewed and incorporated so they co-relate with UPM's latest objectives. UPM also clearly outlines certain criteria and shows the maturing process of research activities as well as the human resource who are involved at the Institutes, Excellence Centres and the Faculties. UPM hopes that through the implementation of these research platforms, it will be able to explore and experience new discoveries to enhance national civilization and also contribute towards futuristic growth.

Restructuring the Agricultural Institutes and Centres for Excellence

UPM has identified the Institutes and Centres that are responsible for spearheading the eight (8) research oriented fields of focus. A new Institute has been set up called the Tropical Agriculture

Institute, while another Institute is the result of consolidating a few existing Institutes known as the Institute for Social Science Studies. Furthermore, two (2) existing Institutes have been renamed and merged - the Tropical Rainforest Academy and the Tropical Biocomposite Institute - which are now established as the Tropical Forestry and Forest Products Institute. This Institute seriously focuses on introducing a tropical forests nursery industry which can contribute to the country's revenue tremendously while, at the same time, can preserve the environment. The country's biodiversity needs to be optimised, thus it is the role of UPM to lead the country towards this. UPM needs to assist the country to move forward by strengthening the agricultural sector, while simultaneously greening the environment.



Besides these, UPM has also renamed certain existing Centres which are now called Centre for Extension, Entrepreneurship, and Professional Advancement (APEEC) which is actually the amalgamation of the Professional Advancement Centre (PACE), the Agriculture Entrepreneurship Development Centre and the Agricultural Development Institute (AGROPAC). This change will spur active participation in its development activities.

Nevertheless, UPM has maintained its Research Institute for Basic Agriculture and Food which is set to play the role of spokesperson on policy matters pertaining to the eight research oriented fields of focus, their platforms as well as issues related to the National Policy on Agriculture and Food.

The 2006 MAHA Exhibition

The Malaysia Agriculture, Horticulture and Agro-tourism Show (MAHA 2006) was held at the Malaysian Agro-Exposition Park (MAEPS), at MARDI, in Serdang, Selangor from 21st - 26th November, 2006. MAHA 2006 was the largest agricultural exhibition in South East Asia. It was organized by the Federal Agricultural Marketing Authority (FAMA) and MATRADE. The theme chosen was "Agriculture as Business". This exhibition served as a platform to complement Government's efforts in promoting Malaysia as a centre for agricultural excellence and agriculture-based industries by exhibiting the technological achievements and latest innovations in the international market.

UPM's exhibition was based on the theme, "UPM - The Generator of High Technology Agricultural Education". UPM presented six groups of exhibitions: the Plants and Animals/Livestock Production Group, the Plant and Animal/Livestock Diseases Control Group,

Pavilion Agrobio untuk memuatkan lebih 35 pameran yang meliputi teknologi baja, makanan halal dan herba, jentera dan klinik pertanian, sumber agrobio seperti gentian pisang, produk kenaf dan minyak sawit, pengkulturan tisu orkid dan herba, ikan dan sayur-sayuran, serta dedak beras dan beras perang cambah yang dikomersilkan.

Pusat Asasi Sains Pertanian Penjana Modal Insan Sektor Pertanian

Kemasukan pelajar Pusat Asasi Sains Pertanian pada tahun 2006 adalah seramai 71 orang berbanding 30 orang pada tahun 2005, iaitu meningkat seramai 41 orang (136.67%). Ini menunjukkan bahawa program pengajian berasaskan pertanian dan asas tani mula mendapat perhatian pelajar selaras dengan hasrat Kerajaan untuk menjadikan UPM sebagai Pusat Kecemerlangan Pendidikan Pertanian. Program ini dapat melahirkan bakal graduan yang lebih kreatif, inovatif, dan berupaya untuk mengaplikasikan pengetahuan secara praktikal dan teknikal dalam penghasilan, sumber pertanian. Graduan program ini akan lebih bijak membuat keputusan dan dapat merencanakan masa hadapan sektor pertanian negara serta seterusnya dapat menunjukkan keupayaan diri untuk bersaing bagi memajukan sektor pertanian di peringkat global.

Kerjasama R & D UPM - BERNAS

Selaras dengan hasrat UPM, Syarikat Padiberas Nasional Bhd (BERNAS) meneruskan usahasama R&D UPM-BERNAS. Antara projek yang terlibat ialah pencirian kualiti dan pembangunan spesifikasi beras, analisis genetik untuk penentuan jenis beras, penghasilan roti dan minuman air beras serta amalan pengilangan beras yang baik.



Pencirian kualiti beras melibatkan analisis fizikal, kimia, dan sensori. Data kualiti beras adalah penting kepada pedagang beras kerana beras yang diperdagangkan memerlukan bukti yang beras tersebut memenuhi spesifikasi dan peraturan. Industri makanan memerlukan data yang sama untuk diaplikasikan dan penentuan kualiti produk beras, manakala pengguna menggunakan maklumat tersebut untuk menilai kandungan nutrisi beras. Dengan Penubuhan Makmal Analisis Makanan UPM-BERNAS di Fakulti Sains dan Teknologi Makanan, Universiti Putra Malaysia, kualiti beras BERNAS dapat dianalisis mengikut piawai antarabangsa dan beras yang berkualiti dapat dikenal pasti menerusi logo "PILIHAN BERNAS".





the Processing & Postplanting Group, the Simulated Agriculture Group, the Bio-health Group and The Policy and Development and Entrepreneurship Group. A total of 28 research products that were ready to be commercialized by UPM were exhibited. UPM's booth won the Runner-Up Award under the Government Departments and Agencies Category.

The Agrobio Exhibition

During the first sitting of the 30th UPM Convocation from 27th July – 1st August 2006, UPM hosted the Convocation Agricultural Expo for six (6) days to exhibit the University's numerous research achievements in the agricultural sector. The Expo's theme was "Glorious Agriculture" and a special booth called the Agrobio Pavilion was set up to display more than 35 Exhibits concerning fertilizer technology, halal food and herbs, agricultural clinic and machinery, agrobio resources such as banana fibre, palm oil, "kenaf" products, orchid tissue and herbal cultivation, fish and vegetables, as well as ground padi husks and brown rice which have been commercialized.

Agriculture Science Foundation Centre, the Agriculture Sector's Human Capital Generator

The Agricultural Science Centre saw an increase of 136.67% or 41 new students in its students' registration with 71 students in 2006, compared to its 30 students in 2005. This shows that educational programmes on agriculture have attracted more students' attention in line with the Government's aspirations to make UPM a Centre for Excellence in Agricultural Studies. This programme aims at producing fresh graduates who are creative, innovative and have the capability to practically and technically apply their agricultural knowledge to increase agricultural production. The programme's graduates will be more competent in making decisions and will have the capability to chart the future of the country's agricultural sector and show their ability to upgrade the agricultural sector to compete globally.

Collaboration between UPM's R & D and BERNAS

In line with UPM's aspirations, Syarikat Padiberas Nasional Bhd (BERNAS) has been faithful to the R&D collaboration between UPM and BERNAS. Among the projects involved are the classification of the quality and development of rice, the genetic analysis to determine the types of rice, the production of bread and cereal drinks as well as the proper milling of rice.

The classification of high quality rice involves physical, chemical and sensory analysis. The data concerning the quality of rice is very important to rice merchants because what's marketed has to be proven to meet the specifications and requirements. The food industry also requires such data for its applications and to determine the final quality of its rice-based products while the consumer uses such information to evaluate the nutritional content in their rice. With the establishment of the UPM-BERNAS Food Analysis Laboratory at the Faculty of Science and Food Technology, at University Putra Malaysia, the quality of BERNAS' rice can be analyzed based on international standards and such quality can be identified through the "PILIHAN BERNAS" (Choice of Bernas) logo.





Pengajaran dan Pembelajaran

Teaching and Learning

Proses pengajaran dan pembelajaran merupakan aktiviti utama Universiti. Perkara ini selari dengan Falsafah Pendidikan Negara dan matlamat pertama Pelan Strategi UPM 2001-2010, iaitu untuk melahirkan graduan yang berkualiti, berdaya saing, dan berupaya untuk terus maju dan seterusnya mampu menyumbang ke arah pembangunan negara melalui pembelajaran sepanjang hayat. Sehubungan itu, bagi merealisasikan objektif ini, satu pengalaman pendidikan yang lengkap dan mampu menyediakan pelajar untuk kehidupan selepas tamat pengajian perlulah dititikberatkan.

Inisiatif Hasil Pembelajaran

Kemasukan pelajar ke universiti dan program pengajian yang dipilih merupakan satu (1) dimensi pengalaman baharu dalam proses pembelajaran pelajar. Pengalaman pendidikan yang komprehensif bagi setiap pelajar perlu disediakan dari pembentukan kurikulum setiap kursus bagi program pengajian tersebut. Justeru penekanan kepada hasil pembelajaran [*Learning Outcomes (LO)*] merupakan inisiatif asas bagi keseluruhan pengalaman pendidikan yang diperlukan.

Sejajar dengan hasrat tersebut, pihak Kementerian Pengajian Tinggi telah melancarkan Modul Pembangunan Kemahiran Insaniah untuk IPT pada 22 Ogos 2006 di UPM

Penentuan hasil pembelajaran amatlah kritikal dalam pembentukan kurikulum program dan kursus yang mampu menghasilkan pelajar yang mempunyai kemahiran dan pengetahuan yang mantap. Selain itu, ini juga membolehkan semua pihak mengukur keberkesanan proses pengajaran dan pembelajaran dengan melihat kualiti graduan tersebut pada akhir pengajiannya. Sehubungan itu, Pihak Kementerian Pengajian Tinggi Malaysia (KPTM) juga telah menggariskan lapan (8) hasil pembelajaran yang perlu dicapai oleh setiap program yang ditawarkan oleh Institusi Pengajian Tinggi Awam (IPTA) seperti yang berikut:

- menguasai ilmu yang cukup dalam bidang tertentu;
- mempunyai tahap profesionalisme, nilai, sikap dan tingkah laku beretika;
- mempunyai akauntabiliti sosial;
- menguasai kemahiran teknikal tertentu termasuk ICT;
- cekap berkomunikasi dan bekerja dalam pasukan;
- cekap mengurus maklumat dan berkebolehan belajar sepanjang hayat;
- berupaya berfikir secara kritis; dan
- mempunyai kemahiran mengurus dan keusahawanan.



Justeru, bagi menghasilkan hasil pengajaran dan pembelajaran yang efektif dan komprehensif, setiap pegawai akademik perlu memahami dan menghayati LO bagi setiap kursus, di samping memudahkan proses pembelajaran dengan mengetahui pelbagai kaedah dan strategi pengajaran yang sesuai. Ini bagi memastikan objektif kursus dan pelajaran tercapai dan proses pengajaran dan pembelajaran dapat dioptimumkan.

Oleh itu, bagi membuat perubahan pada peringkat akar umbi, pendedahan dan pengetahuan asas mengenai LO diberikan kepada semua kakitangan akademik. Untuk itu, rancangan yang intensif dan komprehensif perlu dilaksanakan kerana sebagai kakitangan akademik, setiap kursus dan program perlu jelas mengenai pengetahuan dan kemahiran yang terhasil daripada proses pengajaran dan pembelajaran ke atas pelajar.

Bagi melaksanakan usaha murni ini, pelaksanaan perancangan telah dilakukan oleh Pusat Pembangunan Akademik dengan kerjasama Fakulti Pengajian Pendidikan dengan mengadakan bengkel yang merupakan pendekatan yang sesuai bagi

memenuhi keperluan ini. Tenaga pemudahcara atau fasilitator yang berkaliber dan mempunyai kredibiliti dari setiap fakulti dilantik di samping pengisian bengkel yang bersifat objektif dapat memberi pendedahan dan pemahaman untuk digunakan oleh setiap tenaga pengajar dalam pengajaran mereka.

Pendedahan intensif ke atas LO telah dilaksanakan kepada seluruh kakitangan akademik UPM yang memberi implikasi ke atas proses pengajaran dan pembelajaran. Pendedahan dijalankan melalui bengkel yang dilaksanakan dalam dua peringkat; iaitu bengkel pertama (LO1) yang menekankan kepada hasil pembelajaran dan penilaian, dan bengkel kedua (LO2) memberi fokus kepada gaya pembelajaran dan strategi atau teknik pengajaran. Ini telah dilaksanakan dalam jangkamasa Februari sehingga Mei 2006.

Sehubungan itu, bagi memastikan kesinambungan inisiatif ini dan bagi memantapkan usaha inisiatif LO yang telah dijalankan, pegawai bukan akademik yang menyokong pentadbiran akademik dan proses pengajaran dan pembelajaran secara langsung turut disasarkan untuk menghayati dan mempraktikkan LO dalam usaha menghasilkan graduan yang berdaya saing. Bengkel Inisiatif Hasil Pembelajaran untuk Pegawai Sokongan Akademik UPM dianjurkan bagi memberi pendedahan mengenai konsep dan kepentingan hasil pembelajaran, penaksiran serta teknik pengajaran dan pembelajaran serta mengenal pasti peranan pegawai sokongan dalam menjayakan inisiatif LO.

Semakan Semula Kurikulum

Kurikulum adalah penting kepada sesuatu program pengajian dan kejayaan sesuatu program pengajian dalam menjana graduan yang berjaya dalam kerjaya mereka adalah bergantung kepada kurikulum yang berkualiti. Ini juga berhubung kait dengan kehendak pasaran pekerjaan di arena global dan ke arah menghasilkan graduan yang berdaya saing, mempunyai kemahiran insaniah, dan mampu berubah mengikut situasi semasa. Ini bermakna bahawa kurikulum bukanlah sesuatu yang statik, tetapi sebaliknya sesuatu yang berubah mengikut perubahan persekitaran. Oleh itu, kurikulum bagi sesuatu program pengajian itu mestilah luwes untuk mudah diubah mengikut perubahan di persekitaran.

Justeru, secara umum, bagi memastikan inisiatif LO tercapai, adaptasi dan semakan semula kurikulum perlu dilaksanakan bagi memastikan setiap kursus dan program mempunyai LO yang disasarkan. Amalan IPTA dan UPM khususnya adalah dengan menyemak semula kurikulum setiap lima (5) tahun. Namun, untuk tujuan pembangunan graduan seimbang, semakan semula kurikulum dengan memberikan penekanan ke atas LO telah dijalankan. Keseimbangan ini dapat dicapai dengan menggunakan kaedah tabulasi silang antara program dan LO yang telah ditetapkan dan juga antara objektif kursus dengan tatatingkat taksonomi.

Semakan kurikulum dengan menggunakan pendekatan berteraskan LO dilihat amat wajar kerana pernyataan tentang keupayaan atau kebolehan yang perlu dicapai oleh pelajar selepas setiap aktiviti pembelajaran. Ini adalah kerana dalam pembelajaran berasaskan hasil (*outcome based learning*), semua program dicipta untuk menghasilkan pembelajaran atau perubahan yang spesifik dan berkekalan kepada pelajar untuk diaplikasikan apabila telah tamat pengajian.



Teaching and learning are the main activities at any universities. This is in line with the National Education Philosophy and the first objective in UPM's its 2001-2010 Strategic Plan, i.e. to produce quality graduates who are competitive and resilient through lifelong learning. Therefore, a complete educational experience that is capable of preparing students for real life situation after the completion of their studies should be emphasized.

Learning Outcome (LO) Initiatives

Admission to universities and the chosen study programmes will become a new dimensional experience in the students' learning process. A comprehensive educational experience in every student should start from the formation of curriculum for every course in the particular study programme. Thus, emphasis on learning outcomes (LO) should be the basic initiative for the whole required educational experience.

Determining learning outcomes is profoundly critical in forming curriculum for programme and course in order to produce students that are well-equipped with soft skills and knowledge. This will also enable all parties concerned to effectively evaluate the teaching and learning processes by the qualities of the graduates at the end of their academic year. Thus, the Ministry of Higher Education, Malaysia has outlined eight (8) learning outcomes that should be achieved by every programme offered by Public Institutes Of Higher Learning (PIHL), which are as follow:

- to acquire sufficient knowledge in specific fields;
- to possess a high standard of professionalism, values, attitudes, and ethical behaviour;
- to be socially accountable;
- to master certain technical skills including ICT;
- is excellent in communication skills and teamwork;
- is competent in managing data and capable of lifelong learning;
- is able to think critically; and

- to possess good management and entrepreneurial skills.

Hence, to produce effective and comprehensive teaching and learning outcomes, every academican needs to understand and is well-versed with the Learning Outcomes for each Course, as well as is able to simplify the learning process by appropriate various teaching methods and strategies. This is to optimize the teaching and learning processes and thus to ensure that the objectives of the course are achieved.

Therefore, exposure and basic knowledge on LO should be given to every academican. An intensive plan and a comprehensive programme should be implemented for every academican. This is to ensure each that course and programme have the targeted LO which are to be produced from the teaching and learning processes.

In order to implement this, the Centre for Academic Development (CADE), in collaboration with Faculty of Educational Studies, had conducted workshops. Facilitators from every faculty were appointed to assist in achieving the workshops' objectives in order to provide exposure and understanding on LO to the academicians. This was conducted through 2 stages of workshops: the first workshop (LO1) focused on the learning outcomes and evaluation, and the second workshop (LO2) put focus on learning styles and teaching strategies or techniques. These workshops were conducted between February and May 2006.

Hence, in order to ensure the continuity of this initiative, non-academic officers whom support academic administration and directly involve with the teaching and learning processes were also exposed to LO. Workshops on Learning Outcomes initiative for UPM's Academic Support Officers were conducted to give exposure on the concept and importance of learning outcomes, teaching and learning techniques, and identifying the support officers' role in making the LO initiatives a success.

Oleh itu, keseimbangan kurikulum dicapai dengan memastikan bahawa objektif, sinopsis, kandungan kursus, dan penilaian adalah selari dengan LO yang perlu dicapai. Semakan kurikulum ini melibatkan perincian pemetaan aras taksonomi yang amat berguna kepada pensyarah yang mengendalikan mata pelajaran tersebut untuk menterjemahkan spesifikasi mata pelajaran tersebut ke dalam bentuk hasil pembelajaran terperinci, kandungan serta perancangan pengajarannya.

Kepelbagaian Teknik Pengajaran

Pengajaran berpusatkan pelajar atau *Student-Centred Learning* (SCL) merupakan pendekatan yang telah terbukti berkesan secara saintifik dan telah digunakan dengan meluas oleh institusi pendidikan di seluruh dunia. UPM juga telah menggariskan SCL dalam Pelan Strategik UPM 2001-2010 dengan memastikan penglibatan aktif pelajar dalam proses pengajaran dan pembelajaran. Pendekatan pembelajaran secara SCL dapat mengilap kemahiran berfikir secara kritis dan kreatif dalam menyelesaikan masalah selain dapat membina kemahiran insaniah yang dipertukan oleh setiap pelajar. Pendekatan ini juga merupakan aktiviti simulasi bagi menzahirkan keadaan sebenar dunia pekerjaan di mana pelajar boleh berlatih mengaplikasikan kemahiran berkenaan. Justeru, UPM telah mengorak langkah memberi latihan dan mengadakan bengkel yang menjurus kepada kepelbagaian teknik pengajaran kepada kakitangan akademik bagi memantapkan proses pengajaran dan pembelajaran dalam setiap kuliah yang dijalankan. Kepelbagaian ini juga mampu memenuhi objektif LO yang disasarkan. Ini adalah kerana pencapaian LO diperingkat kuliah akan memberikan impak kepada pencapaian LO kursus dan LO program pada akhir pengajian pelajar.



Antara aktiviti SCL yang dilaksanakan adalah Pembelajaran Berasaskan Masalah, Pendekatan Modular, Kajian Kes, dan Projek Berteraskan Pembelajaran Berasaskan Masalah. Kepelbagaian teknik pengajaran SCL yang berbeza ini mampu membina sahsiah positif pelajar di samping memupuk nilai profesional dan etika dalam diri selain daripada penerapan pembelajaran sepanjang hayat. Secara tidak langsung, matlamat inisiatif LO dicapai.



Inisiatif Kemahiran Insaniah (*Softskills*)

Isu pengangguran dan kebolehdapatan kerja graduan telah menjadi fokus utama dalam menghasilkan modal insan yang berdaya saing. Justeru, bagi menjana graduan yang memiliki kemahiran yang menyeluruh sama ada dari sudut kualiti intelektual mahupun ketrampilan insaniah yang merangkumi aspek jasmani dan rohani, dan memastikan graduan UPM dilihat mempunyai pakej yang seimbang, UPM telah menyahut saranan Pihak Kementerian Pengajian Tinggi Malaysia (KPTM) yang telah memperkenalkan inisiatif kemahiran insaniah (*softskills*) dalam usaha untuk memantapkan lagi fungsi pendidikan negara. Secara tidak langsung inisiatif ini sejajar dengan salah satu matlamat UPM; melahirkan graduan yang berkualiti, berdaya saing dan berupaya untuk terus maju melalui pembelajaran yang berterusan.

Kemahiran Insaniah (KI) adalah antara elemen yang dikenal pasti sebagai amat kritikal dalam dunia pekerjaan yang bersifat global dan kompetitif pada masa ini selari dengan perubahan teknologi yang begitu pantas. Oleh itu, graduan harus dibekalkan dengan KI sebagai usaha untuk memenuhi dan menepati kehendak pasaran kerja. Sehubungan dengan itu, KPTM telah mengarahkan semua Institusi Pengajian Tinggi (IPT) melaksanakan pelan tindakan bagi menerapkan KI melalui semua program pengajian. Sejarai dengan hasrat tersebut, Kementerian Pengajian Tinggi (KPT) telah melancarkan Modul Pembangunan Kemahiran Insaniah untuk IPT pada 22 Ogos 2006 di UPM. Antara aspek yang diberi penekanan dalam melaksanakan KI adalah penilaian dan penarafan KI dalam kalangan pelajar berkaitan dengan kemahiran berikut:

- Kemahiran Berkomunikasi;
- Pemikiran Kritis dan Penyelesaian Masalah;
- Kemahiran Kerja Berpasukan;
- Pembelajaran Berterusan dan Pengurusan Maklumat;
- Kemahiran Keusahawanan;
- Etika dan Moral Profesional; dan
- Kemahiran Kepimpinan

Bagi melihat keberkesanan program dan kursus yang dijalankan, UPM secara amnya dan Pusat Pembangunan Akademik (CADE) telah membangunkan instrumen penilaian KI di kalangan

Review of the Existing Curriculum

Curriculum is a crucial element in any particular study programme and the success of a study programme in producing successful graduates heavily depends on the quality of the curriculum. This is also related to the current job market requirements in the global arena. This means that curriculum is not static but is dynamic. Thus, a curriculum of a particular programme should be easily adaptable and adjustable to follow the current flow and trend in the global market.

Generally, in order to ensure the objectives of LO initiatives are achieved, adaptation and reviewing all the curriculum should be carried out to ensure every course and programme has the targeted LO. In practice, curriculum is usually reviewed every five years. However, for a balanced graduate development, curriculum review which emphasized on LO was then conducted. The balance could be achieved using cross tabulation method between the programme and the targeted LO as well as the course objectives and the taxonomy level.

Curriculum review based on the LO is the most appropriate method as the LO is a fact stating on the ability of what the student should achieve after every learning activity. This is because in a learning environment that is based on its outcome (outcome-based learning), all the programmes are created to produce a learning experience or a specific and lasting change that is applicable to the students once they have completed their studies. Therefore, a balanced curriculum is necessary to ensure that the objective, course content and evaluation is parallel with the targeted LO. This curriculum review with LO is beneficial to lecturers whom are handling the subject in order to map out the subject's specifications into a detailed learning outcome, content and teaching plan.

Various Teaching Techniques

Student-Centred Learning (SCL) is an approach that has been scientifically proven and widely used by teaching institutions globally. UPM has outlined SCL in its 2001-2010 Strategic Plan to ensure the students' active participation in the teaching and learning process. SCL is able to develop critical and creative thinking in solving problem besides developing the required soft skills. It is a simulation activity that portrays a real working scenario where students are able to practice applying the required skills. Thus, UPM has move forward by providing training and conducting workshop that focuses on various teaching techniques to the academicians.

Amongst the SCL activities that had been implemented were Problem-Based Learning, Modular Approach, Case Study and Project-Oriented Problem-Based Learning. These various teaching techniques of SCL are able in developing a positive and sound attitude besides nurturing professional values and ethics in oneself, as well as lifelong learning. In the long run, the objectives of LO initiatives will be achieved.

Soft Skills

Unemployment and employability of graduates are issues that have become the main focus in producing a competitive human capital. Thus, in generating graduates that possess a complete package of both intellectual and soft skills, and to portray UPM graduates as having a balanced package, UPM has introduced

Soft Skills in an attempt to further strengthen the nation's education function. Incidentally, the initiative will be in line with UPM's mission.

Soft Skills is one of the critical elements that have been identified in the global and competitive workplace today together with the fast-changing technological era. As such, graduates should be equipped with soft skills to cater for the needs of the current job market. Hence, MOHE has directed all IHL to implement an action plan in incorporating Soft Skills in every study programme. In line with that, MOHE had launched Soft Skills Development Module for IHL on 22 August 2006 at UPM. Some of the aspects that are being emphasized in implementing Soft Skills are the assessment and grading of Soft Skills among the students with the following skills:

- Communication Skills;
- Critical Thinking and Problem Solving;
- Teamwork Skills;
- Lifelong Learning and Data Management;
- Entrepreneurial Skills;
- Professional Ethics and Morals; and
- Leadership Skills.

To ensure the effectiveness of the programme and course, UPM developed a Soft Skills Assessment Instrument among students which will become an assessment mechanism in providing a better picture about the Soft Skills level among student. The assessment mechanism and instruments are developed in a psychometric form. This is in line with the Soft Skills Development Module for IHL.



By the end of 2006, the development of the Soft Skills assessment instrument was still in its infancy stage. Work is underway to refine this instrument so that eventually this psychometric assessment instrument will be truly effective in gauging the seven (7) Soft Skill elements. An effective assessment instrument should be able to reflect a student's true abilities to determine his or her level of achievements in Soft Skills. Therefore, this instrument can be used as a platform to increase the quality and credibility of graduates. The incorporation of Soft Skills among students is a valuable step towards creating human capital whom are able to fulfill the aspirations and vision of UPM.

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pelajar yang merupakan satu mekanisme penilaian yang dapat memberi gambaran mengenai tahap KI yang terdapat dalam kalangan pelajar adalah penting untuk dibangunkan. Mekanisme dan instrumen penilaian tersebut dibangunkan dalam bentuk psikometrik dengan kerjasama pensyarah dari pelbagai fakulti yang mempunyai kepakaran dalam tujuh (7) bidang kemahiran di atas. Ini selaras dengan saranan yang terkandung dalam Modul Pembangunan KI untuk IPT.

Pada masa ini, pembangunan instrumen penilaian KI masih pada peringkat kajian rintis untuk memantapkan dan menambah baik mutu instrumen penilaian agar instrumen berbentuk psikometrik yang dibangunkan itu benar-benar mengukur tujuh (7) elemen KI. Instrumen penilaian yang mantap akan dapat mencerminkan keupayaan sebenar pelajar untuk menentukan tahap pencapaian kemahiran insaniah yang diperolehi. Ianya menjadi landasan potensi dalam meningkatkan kualiti dan kredibiliti graduan yang dihasilkan. Penerapan kemahiran insaniah dalam kalangan pelajar adalah satu usaha untuk menghasilkan modal insan yang mampu memenuhi aspirasi dan wawasan UPM khususnya dan negara amnya.



Senarai Fakulti

UPM mempunyai 16 buah fakulti, iaitu 15 di kampus Serdang Selangor dan sebuah di kampus Bintulu Sarawak yang menawarkan pelbagai bidang pengajian. Fakulti tersebut ialah:

- Fakulti Pertanian
- Fakulti Perhutanan
- Fakulti Perubatan Veterinar
- Fakulti Ekonomi dan Pengurusan
- Fakulti Kejuruteraan
- Fakulti Pengajian Pendidikan
- Fakulti Sains
- Fakulti Sains dan Teknologi Makanan
- Fakulti Ekologi Manusia
- Fakulti Bahasa Moden dan Komunikasi
- Fakulti Rekabentuk dan Senibina
- Fakulti Perubatan dan Sains Kesihatan
- Fakulti Sains Komputer dan Teknologi Maklumat
- Fakulti Bioteknologi dan Sains Biomolekul
- Fakulti Pengajian Alam Sekitar
- Fakulti Sains Pertanian dan Makanan (UPMKB)

Institut

Penstrukturan dan penggabungan beberapa Pusat Tanggungjawab (PTJ) bagi memantapkan pentadbiran dan pengkhususan dalam bidang berkaitan. Justeru, Penstrukturan semula Institut, Akademi, dan Pusat berkuatkuasa mulai 1 Julai 2006. UPM juga mempunyai sembilan (9) buah Institut, dua belas (12) buah Pusat, dan sebuah Akademi sepertimana yang berikut:

- Institut Biosains (Gabungan Institut Farmaseutikal dan Nutriseutikal Bioteknologi)
- Institut Teknologi Maju (ITMA) (Gabungan ITMA dan Pusat Mekanisasi dan Pengautomatan Pertanian dan Makanan (AGROMAC))
- Institut Gerontologi
- Institut Penyelidikan Matematik
- Institut Penyelidikan Produk Halal (Gabungan Institut Makanan Halal dan Pusat Kajian Strategik dan Inovasi Makanan)
- Institut Kajian Dasar Pertanian dan Makanan
- Institut Perhutanan Tropika dan Produk Hutan (gabungan Akademi Hutan Hujan Tropika dan Institut Biokomposit Tropika)
- Institut Pengajian Sains Sosial (penstrukturan semula Institut Pengajian Komuniti dan Keamanan (PEKKA))
- Institut Pertanian Tropika (penstrukturan dan penjenamaan semula dengan Institut Kajian Perladangan)



Pusat

- Pusat Pendidikan Luar (PPL)
- Pusat Pembangunan Perniagaan (UBC)
- Pusat Islam
- Pusat Kebudayaan dan Kesenian Sultan Salahuddin Abdul Aziz Shah
- Pusat Pembangunan Akademik (CADE)
- Pusat Asasi Sains Pertanian (PASP)
- Pusat Pembangunan Maklumat dan Komunikasi (IDEC)
- Pusat Pengembangan, Keusahawanan dan Pemajuan Profesional (APEEC)
- Pusat Inovasi dan Pengkomersilan (ICC)
- Pusat Alumni
- Pusat Sukan
- Pusat Kokurikulum



instrument will be truly effective in gauging the seven Soft Skill elements. An effective assessment instrument should be able to reflect a student's true abilities to determine his or her level of achievements in Soft Skills. Therefore, this instrument can be used as a platform to increase the quality and credibility of graduates. The incorporation of Soft Skills among students is a valuable step towards creating human capital who are able to fulfil the aspirations and vision of UPM.

Faculties

UPM has 16 Faculties, 15 in the Serdang Selangor Campus and one in Bintulu Sarawak which offer various fields of study. The Faculties are:

- Faculty of Agriculture
- Faculty of Forestry
- Faculty of Veterinary Medicine
- Faculty of Economics and Management
- Faculty of Engineering
- Faculty of Educational Studies
- Faculty of Science
- Faculty of Food Science and Technology
- Faculty of Human Ecology
- Faculty of Modern Languages and Communication
- Faculty of Design and Architecture
- Faculty of Medicine and Health Science
- Faculty of Computer Science and Information Technology
- Faculty of Biotechnology and Biomolecular Sciences
- Faculty of Environmental Studies
- Faculty of Agriculture and Food Sciences (UPMKB)

Institutes

UPM has 9 Institutes, 12 Centres, and 1 Academy:

- Institute of Bioscience (after the merger of the Pharmaceutical and Nutraceutical Biotechnology Institutes)

- Institute of Advance Technology (ITMA) (the merger of ITMA and Centre for Mechanization and Automation of Food and Agriculture (AGROMAC))
- Institute of Gerontology
- Institute for Mathematical Research
- Institute of Halal Products Research (the merger of the Institute for Halal Products Research and Centre for Strategic Studies and Food Innovation)
- Institute of Agriculture and Food Policy Studies
- Institute of Tropical Forestry and Forest Product (merger of the Rain Forest Academy and Institute of Tropical Biocomposite)
- Institute for Social Science Studies (after restructuring the Institutes of Community and Peace Studies [PEKKA])
- Institute of Tropical Agriculture (restructuring and rebranding the Institute of Plantation Studies)

The restructuring of the Institutes, the Academy and Centres takes effect from 1st July, 2006.

Centres

- Centre for External Programmes (PPL)
- University Business Centre (UBC)
- Islamic Centre
- Sultan Salahuddin Abdul Aziz Shah Arts and Cultural Centre
- Centre for Academic Development (CADE)
- Centre for Foundation Studies for Agricultural Science (PASP)
- Information and Communication Development Centre (IDEC)
- Centre of Extension, Entrepreneurship and Professional Advancement (APEEC)
- Centre for Innovation and Commercialization (ICC)
- Alumni Centre
- Sports Centre
- Co-curriculum Centre

Academy

- Sports Academy

Under Graduate Studies Programmes

UPM offers various fields of Programmes and Disciplines. The Programmes offered for the Bachelor's Degree and Diploma according to Faculties are as follows:

Faculty of Agriculture

- PG11 Bachelor of Agricultural Science
- PG14 Bachelor of Horticultural Science
- PP05 Bachelor of Science (Agri-Business)
- PG27 Bachelor of Agriculture (Aquaculture)
- PG32 Bachelor of Agriculture (Animal Science)

Faculty of Forestry

- PG12 Bachelor of Forestry Science
- PY13 Bachelor of Wood Science and Technology

Faculty of Veterinary Medicine

- PM01 Doctor of Veterinary Medicine



Akademi

- Akademi Sukan

Program Pengajian Prasiswazah

UPM adalah sebuah Universiti yang menawarkan program pelbagai bidang dan disiplin. Program yang ditawarkan di peringkat Ijazah Bacelor dan Diploma mengikut Fakulti adalah seperti yang berikut:

Fakulti Pertanian

- PG11 Bacelor Sains Pertanian
- PG14 Bacelor Sains Hortikultur
- PP05 Bacelor Sains (Perniagaantani)
- PG27 Bacelor Pertanian (Akuakultur)
- PG32 Bacelor Pertanian (Sains Ternakan)

Fakulti Perhutanan

- PG12 Bacelor Sains Perhutanan
- PY13 Bacelor Sains Teknologi Kayu

Fakulti Perubatan Veterinar

- PM01 Doktor Perubatan Veterinar

Fakulti Perubatan dan Sains Kesihatan

- PM00 Doktor Perubatan
- PM02 Bacelor Sains (Sains Bioperubatan)
- PM05 Bacelor Sains (Dietetik)
- PM09 Bacelor Sains (Pemakanan dan Kesihatan Komuniti)
- PM10 Bacelor Sains (Kesihatan Persekitaran & Pekerjaan)
- PM12 Bacelor Kejururawatan

Fakulti Ekologi Manusia

- PA05 Bacelor Muzik
- PP02 Bacelor Sains (Pembangunan Manusia)
- PP33 Bacelor Sains (Pembangunan Manusia dan Pengurusan)
- PP34 Bacelor Sains (Pembangunan Manusia dan Teknologi Maklumat)
- PP20 Bacelor Pengajian Pengguna

Fakulti Ekonomi dan Pengurusan

- PE00 Bacelor Ekonomi
- PE02 Bacelor Perakaunan
- PP06 Bacelor Pentadbiran Perniagaan

Fakulti Kejuruteraan

- PK01 Bacelor Kejuruteraan (Awam)
- PK02 Bacelor Kejuruteraan (Elektrik dan Elektronik)
- PK03 Bacelor Kejuruteraan (Kimia)
- PK05 Bacelor Kejuruteraan (Pertanian dan Biosistem)
- PK08 Bacelor Kejuruteraan (Mekanikal)
- PK16 Bacelor Kejuruteraan (Proses dan Makanan)
- PK17 Bacelor Kejuruteraan (Sistem Komputer dan Komunikasi)

Fakulti Sains dan Teknologi Makanan

- PG09 Bacelor Sains dan Teknologi Makanan
- PG17 Bacelor Sains (Pengajian Makanan)

Fakulti Pengajian Pendidikan

- PT03 Bacelor Pendidikan (Pendidikan Jasmani)
- PT04 Bacelor Pendidikan (Bimbingan dan Kaunseling)
- PT05 Bacelor Pendidikan (Pengajaran Bahasa Malaysia Sebagai Bahasa Pertama)
- PT06 Bacelor Pendidikan (Pengajaran Bahasa Inggeris Sebagai Bahasa Kedua)
- PT07 Bacelor Pendidikan (Sains Rumahtangga)
- PT09 Bacelor Pendidikan (Sains Pertanian)
- PT20 Bacelor Pendidikan (Teknologi Maklumat)
- PT41 Bacelor Pendidikan (Pendidikan Moral)
- PP09 Bacelor Sains (Pembangunan Sumber Manusia)
- P020 Diploma Kejurulatihan Sukan

Fakulti Sains

Bacelor Sains (Kepujian)

- PS02 - Major Biologi



Faculty of Medicine and Health Sciences

- PM00 Medical Doctor
- PM02 Bachelor of Science (Biomedical Science)
- PM05 Bachelor of Dietetics
- PM09 Bachelor of Science (Food and Community Health)
- PM10 Bachelor of Science (Environment and Occupational Health)
- PM12 Bachelors of Nursing

Faculty of Human Ecology

- PA05 Bachelor of Music
- PP02 Bachelor of Science (Human Development)
- PP33 Bachelor of Science (Human Development and Management)
- PP34 Bachelor of Science (Human Development and IT)
- PP20 Bachelor of Consumer Studies

Faculty of Economics and Management

- PE00 Bachelor of Economics
- PE02 Bachelor of Accounting
- PP06 Bachelor of Business Administration

Faculty of Engineering

- PK01 Bachelor of Engineering (Civil)
- PK02 Bachelor of Engineering (Electrical and Electronic)
- PK03 Bachelor of Engineering (Chemical)
- PK05 Bachelor of Engineering (Agricultural and Biosystem)
- PK08 Bachelor of Engineering (Mechanical)
- PK16 Bachelor of Engineering (Food and Process)
- PK17 Bachelor of Engineering (Computer and Communication Systems)

Faculty of Science and Food Technology

- PG09 Bachelor of Food Science and Technology
- PG17 Bachelor of Science (Food Studies)

Faculty of Education Studies

- PT03 Bachelor of Education (Physical Education)
- PT04 Bachelor of Education (Guidance and Counseling)
- PT05 Bachelor of Education (Teaching of Malay as a First Language)
- PT06 Bachelor of Education (Teaching of English as a Second Language)
- PT07 Bachelor of Education (Home Science)
- PT09 Bachelor of Education (Agricultural Science)
- PT20 Bachelor of Education (Information Technology)
- PT41 Bachelor of Education (Moral Education)
- PP09 Bachelor of Science (Human Resource Development)
- P020 Diploma in Sports Coaching

Faculty of Science

Bachelor of Science (Hons.)

- PS02 - Major in Biology
- PS08 - Major in Mathematics
- PS09 - Major in Statistics
- PS15 - Major in Physics
- PS28 - Major in Chemistry
- PS29 - Major in Industrial Chemistry
- PS30 - Major in Petroleum Chemistry
- PS36 - Major in Material Science
- PS37 - Major in Instrumentation Science Bachelor of Science with Education (Hons)
- PT11 - Major in Biology
- PT12 - Major in Physics



- PS08 - Major Matematik
- PS09 - Major Statistik
- PS15 - Major Fizik
- PS28 - Major Kimia
- PS29 - Major Kimia Perindustrian
- PS30 - Major Kimia Petroleum
- PS36 - Major Sains Bahan
- PS37 - Major Sains Instrumentasi

Bachelor Sains Dengan Pendidikan (Kepujian)

- PT11 - Major Biologi
- PT12 - Major Fizik
- PT13 - Major Kimia
- PT14 - Major Matematik

Fakulti Reka Bentuk dan Seni Bina

- PH02 - Bacelor Seni Bina Landskap
- PH11 - Bacelor Reka Bentuk (Senibina)
- PH12 - Bacelor Reka Bentuk (Reka Bentuk Perindustrian)

Fakulti Bahasa Moden dan Komunikasi

Bachelor Sastera

- PB00 - Bahasa Inggeris
- PB03 - Bahasa & Linguistik Melayu
- PB06 - Kesusasteraan Melayu
- PB07 - Kesusasteraan Inggeris

Pengkhususan Bahasa Asing

- PB04 - Bahasa Mandarin
- PB05 - Bahasa Arab
- PB08 - Bahasa Perancis
- PB09 - Bahasa Jerman
- PA02 - **Bachelor Komunikasi**

Fakulti Sains Komputer dan Teknologi Maklumat

Bachelor Sains Komputer

- PC04 - Pengkhususan Sistem Komputer
- PC09 - Pengkhususan Multimedia
- PC10 - Pengkhususan Kejuruteraan Perisian
- PC11 - Pengkhususan Rangkaian Komputer

Fakulti Bioteknologi dan Sains Biomolekul

- PG07 - Bacelor Sains (Bioteknologi)

Bachelor Sains (Kepujian)

- PS26 - Major Biokimia
- PS27 - Major Mikrobiologi

Fakulti Pengajian Alam Sekitar

- PG13 Bacelor Sains (Alam Sekitar)
- PP41 Bacelor Pengurusan Alam Sekitar

Fakulti Sains Pertanian dan Makanan (UPMKB)

- PG30 Bacelor Sains Bioindustri
- P101 Diploma Pertanian
- P103 Diploma Perhutanan
- P105 Diploma Perikanan
- P109 Diploma Kesihatan Haiwan dan Peternakan
- P110 Diploma Pengurusan Perladangan Makanan

Program Pengajian Pascasiswazah

Sekolah Pengajian Siswazah

- Doktor Falsafah (PhD)

- Master Pentadbiran Perniagaan (MBA)
- Master Pengurusan (MM)
- Master Sains (M.Sc)

Sekolah Pengajian Siswazah Pengurusan

- Doktor Falsafah (PhD)
- Master Sains Pertanian (M.Agric.Sc.)
- Master Sastera (MA)
- Master Ekonomi (M.Econ.)
- Master Alam Sekitar (M.Env.)
- Master Senibina Landskap (M.L.A)
- Master Pengurusan (MM)
- Master Sains Veterinar (M.V.Sc.)
- Master Perubatan Veterinar (M.V.M.)
- Diploma Lulusan Ijazah Perubatan Reproduksi

Pendidikan Jarak Jauh dan Kerjasama Universiti Putra Malaysia – Institusi Pengajian Tinggi Swasta (UPM-IPTS)

UPM turut menawarkan program Pendidikan Jarak Jauh (PJJ) pada peringkat Ijazah Bacelor dan Master. Program ini dikelolakan oleh Pusat Pendidikan Luar (PPL). Program ini mendapat tempat dalam kalangan individu berkerjaya yang ingin mempertingkatkan kelulusan akademik masing-masing.



Pada tahun 2006, PPL menawarkan program pengajian yang berikut:

- Bacelor Sains (Pembangunan Manusia)
- Bacelor Sains (Pembangunan Sumber Manusia)
- Bacelor Pentadbiran Perniagaan
- Bacelor Pendidikan (Pengajaran Bahasa Inggeris sebagai Bahasa Kedua)
- Bacelor Komunikasi
- Bahasa dan Linguistik Melayu
- Bahasa Inggeris
- Master Sains (Pembangunan Sumber Manusia)
- Master Sains (Komunikasi Korporat)
- Master Sains (Pengajaran Bahasa Melayu Sebagai Bahasa Pertama)
- Master Sastera (Bahasa Melayu)

- PT13 - Major in Chemistry
- PT14 - Major in Mathematics

Faculty of Design and Architecture

- PH02 Bachelor of Landscape Architecture
- PH11 Bachelor of Design (Architecture)
- PH12 Bachelor of Design (Industrial Design)

Faculty of Modern Languages and Communication

Bachelor of Literature

- PA02 - Bachelor of Communication
- PB00 - English Language
- PB03 - Language & Malay Linguistics
- PB06 - Malay Literature
- PB07 - English Literature

Majoring in Foreign Languages

- PB04 - Mandarin Language
- PB05 - Arabic Language
- PB08 - French Language
- PB09 - German Language

Faculty of Computer Science and Information Technology

Bachelor of Computer Science

- PC04 - Majoring in Computer Systems
- PC09 - Majoring in Multimedia
- PC10 - Majoring in Software Engineering
- PC11 - Majoring in Computer Networks

Faculty of Biotechnology and Biomolecular Sciences

- PG07 - Bachelor of Science (Biotechnology)

Bachelor of Science (Hons.)

- PS26 - Major in Biochemistry
- PS27 - Major in Microbiology

Faculty of Environmental Studies

- PG13 Bachelor of Science (Environment)
- PP41 Bachelor of Environmental Management

Faculty of Agricultural and Food Science (UPMKB)

- PG30 Bachelor of Bioindustrial Science
- P101 Diploma in Agriculture
- P103 Diploma in Forestry
- P105 Diploma in Fisheries
- P109 Diploma in Animal Health and Livestock
- P110 Diploma in Food Estate Management

Postgraduate Programmes

Graduate School of Management

- Doctor of Philosophy (PhD)
- Masters in Business Administration (MBA)
- Masters in Management (MM)
- Masters of Science (M.Sc)

School of Graduate Studies

- Doctor of Philosophy (PhD)
- Masters in Agricultural Science (M.Agric.Sc.)
- Masters in Literature (MA)
- Masters in Economics (M.Econ.)
- Master of Environment (M.Env.)
- Masters in Landscape Design (M.L.A)
- Masters in Management (MM)

- Masters in Veterinary Science (M.V.Sc.)
- Masters in Veterinary Medicine (M.V.M.)
- Postgraduate Diploma in Reproduction Medicine

Long Distance Education and collaboration between Universiti Putra Malaysia and Private Institutions of Higher Learning (UPM-IPTS)

UPM also offers Long Distance Study Programmes at the level of Bachelors and Masters. The Programme is supervised by the External Education Centre (EEC). This Programme is a preferred choice among career-minded individuals who chose to upgrade their personal academic achievements.

In 2006, the EEC offered the following Study Programmes:

- Bachelor of Science (Human Development)
- Bachelor of Science (Human Resource Development)
- Bachelor in Business Management
- Bachelor of Education (Teaching English as a Second Language)
- Bachelor of Communications
- Language and Malay Linguistics
- English Language
- Master of Science (Human Resource Development)
- Master of Science (Corporate Communications)
- Master of Science (Teaching Malay as a First Language)
- Master of Literature (Malay Language)

Collaboration with IPTS

Another approach introduced to give an opportunity to those who desire to further their studies is through the collaboration of UPM and IPTS. Through this method, chances of students gaining their place in the University were higher and the quality of the certified IPTS can be fully controlled and guaranteed. Various Programmes were being offered through this collaboration including Diploma and Bachelor's Degrees. These include:

- Bachelor of Computer Science
- Bachelor in Business Administration
- Bachelor in Computer System Engineering and Communication
- Diploma in Computer Science
- Diploma in Human Advancement
- Diploma in Business Administration
- Diploma in Agriculture
- Engineering Diploma in Multimedia Technology

List of IPTS that collaborate with UPM

The list of IPTS that collaborate with UPM are as follows:

- A.N.S Institute of Technology
- Kolej Teknologi Timur
- SAL College
- MARA Poly-Tech College (KPTM)
- Cybernetics College
- UNITI College
- RISDA College
- Johor Islamic Educational Fund College
- Pahang Skills Development Centre (PSDC)
- SHAHPUTRA College
- BESTARI Teknology College (KTB)
- Chermaj Jaya College (KCJ)
- SARA Institute of Technology

Program Kerjasama UPM-IPTS

Satu lagi pendekatan yang diperkenalkan untuk memberi peluang kepada masyarakat melanjutkan pengajian pada peringkat tinggi ialah melalui program kerjasama UPM dan Institusi Pengajian Tinggi Swasta (IPTS). Melalui kaedah ini, peluang masyarakat untuk mendapat pendidikan tinggi lebih terbuka dan jaminan



terhadap kualiti sesebuah IPTS dapat dikawal sepenuhnya. Terdapat pelbagai program yang ditawarkan melalui program kerjasama yang meliputi program peringkat Diploma dan Ijazah Bachelors seperti yang berikut:

- Bachelors Sains Komputer
- Bachelors Pentadbiran Perniagaan
- Bachelors Kejuruteraan Sistem Komputer dan Komunikasi
- Diploma Sains Komputer
- Diploma Pembangunan Manusia
- Diploma Pengurusan Perniagaan
- Diploma Pertanian
- Diploma Kejuruteraan Teknologi Multimedia

Senarai IPTS yang Bekerjasama dengan UPM

Senarai IPTS yang bekerjasama dengan UPM adalah seperti yang berikut:

- Institut Teknologi A.N.S
- Kolej Teknologi Timur
- Kolej SAL
- Kolej Poly –Tech MARA (KPTM)
- Kolej Cybernetics
- Kolej UNITI
- Kolej RISDA
- Kolej Islam Yayasan Pelajaran Johor
- Pusat Pembangunan Kemahiran Pahang (PSDC)
- Kolej SHAHPUTRA
- Kolej Teknologi BESTARI (KTB)
- Kolej Chermaj Jaya (KCJ)
- Institut Teknologi SARA

Program Baharu

Terdapat empat (4) program pengajian baharu telah diluluskan oleh Kementerian Pengajian Tinggi Malaysia untuk ditawarkan mulai tahun 2006. Program tersebut adalah seperti yang berikut:

- Bachelors Pertanian (Akuakultur)
- Bachelors Pertanian (Ternakan)
- Bachelors Sains Teknologi Kayu
- Bachelors Pengurusan Alam Sekitar

Program Eksekutif

Terdapat dua (2) buah fakulti yang menawarkan program Eksekutif, iaitu:

1. **Fakulti Ekonomi dan Pengurusan**
 - Bachelors Ekonomi
 - Bachelors Pentadbiran Perniagaan
 - Bachelors Perakaunan
2. **Fakulti Bahasa Moden dan Komunikasi**
 - Bachelors Sastera (Bahasa dan Linguistik Melayu)
 - Bachelors Sastera (Bahasa Inggeris)
 - Bachelors Sastera (Bahasa Asing)
 - Bachelors Komunikasi

Perpustakaan Sultan Abdul Samad

Tahun 2006 memperlihatkan usaha pihak Perpustakaan Sultan Abdul Samad (PSAS) untuk terus memantapkan lagi peranannya dalam menyediakan sumber, kemudahan, dan perkhidmatan maklumat yang cemerlang bagi memenuhi keperluan pelanggan. Perkembangan teknologi maklumat dan komunikasi (ICT), telah memberi ruang kepada PSAS untuk memastikan sistem pengurusan bahan dan perkhidmatannya berkembang selaras dengan perkembangan ICT yang berkaitan. PSAS berusaha menggunakan teknologi terkini untuk memenuhi keperluan pengaksesan maklumat dalam pengajaran, pembelajaran, dan penyelidikan.

Koleksi

Koleksi Perpustakaan berkembang terus dengan pertambahan bahan baharu untuk menyokong program yang sedia ada dan juga program baharu. Sehingga akhir tahun 2006, jumlah keseluruhan koleksi Perpustakaan UPM, termasuklah koleksi di Perpustakaan Fakulti Perubatan dan Sains Kesihatan dan Perpustakaan Fakulti Perubatan Veterinar adalah sebanyak 512,743 naskhah. Jumlah ini meliputi semua koleksi buku, jurnal berjilid, dan bahan pandang dengar. Untuk koleksi jurnal, PSAS sentiasa berusaha untuk meningkatkan langganan kepada pangkalan data dalam talian untuk memudahkan pengguna mengakses jurnal elektronik yang ada. Perolehan jurnal bercetak masih diteruskan dan sehingga kini terdapat sebanyak 5,947 judul jurnal bercetak dalam koleksi. Daripada jumlah tersebut sebanyak 2,976 adalah judul yang dilanggan.

Keahlian

Bilangan ahli berdaftar PSAS tidak memperlihatkan perubahan yang begitu ketara dari semasa ke semasa kerana bergantung pada bilangan kemasukan pelajar baharu dan juga bilangan pelajar yang tamat pengajian. Pada tahun 2006, bilangan keseluruhan ahli berdaftar PSAS masih berada di sekitar 50,000 orang.

New Programmes

There are 4 new Programmes that was approved by the Ministry of Higher Education to be offered from 2006. These Programmes include:

- Bachelor of Agriculture (Aquaculture)
- Bachelor of Agriculture (Livestock)
- Bachelor of Wood Science and Technology
- Bachelor of Environmental Management

Executive Programmes

There are Two Faculties offering Executive Programmes. They are:

1. Faculty of Economics and Management
 - Bachelor of Economy
 - Bachelor of Business Administration
 - Bachelor of Accounting
2. Faculty of Modern Language and Communication
 - Bachelor of Literature (Language and Malay Linguistics)
 - Bachelor of Literature (English Language)
 - Bachelor of Literature (Foreign Language)
 - Bachelor of Communication

Sultan Abdul Samad Library (PSAS)

2006 saw the significant efforts made by the Sultan Abdul Samad Library to continue strengthening its role as an excellent provider of resources, facilities and information services to cater for the needs of its customers. The expansion of Information Technology and Communication (ICT) paved the way for the Library to ensure that the resource management system and its services grew with the related ICT development. PSAS utilizes the latest technology to improve the access to information needed for teaching, learning and researching.

Membership

There is no significant change in the number of registered members of PSAS as it depends on the intake of new students and the number of students graduating from time to time. As of 2006, the overall number of registered PSAS members was around 50,000.

Loan Facilities

Loan facilities is the most active of services available. In an average year, there are about 599,743 loan transactions that take place at the borrowing counters which include books loaned, book and media material that are returned or renewed. In the same year, the library began using a self check machine and return book slot that enables the user to borrow or return materials without having to settle matters at the counters.



Document Supply Service

Until the end of December 2006, a total of 1331 applications to acquire materials from other libraries were received from UPM students and staff, and 709 (53.27%) applications have been processed. During the same duration, 905 applications were received from other libraries to acquire materials from this library's collection. From this amount, 874 (96.57%) requests or 97.97% have been processed.

Library Usage

Based on the meter reading at the library's entrance, 668,455 users have patronized the Library from January to December 2006.

Online data base

To allow consumers to access more information from journals and other sources via the internet, PSAS has boosted its online data base subscription in 2006 by subscribing these online data bases, American Institute of Physics / American Physical Society Journals, Biomedical Reference Collection, Communication and Mass Media Complete, Health Business Fulltext Elite, Nursing and Allied Health Collection, Psychology and Behavioral Science Collection, RefWorks, and Wiley Interscience Journals.

As of December 2006, the library has subscribed to at least 40 local and international online databases including, **ACM Digital Library, American Chemical Society Publications, American Institute of Physics / American Physical Society Journals, American Society of Mechanical Engineers Publications, BioOne Fulltext, Blackwell Synergy, CAB Abstracts, CABI Primary Journals, CSA Illumina, Computer Database, EBSCOHost [Academic Search Premier, Biomedical Reference Collection, Business Source Premier, CINAHL, Communication and Mass Media Complete, ERIC, Health Business Elite, MEDLINE, Nursing and Allied Health Collection, PsycARTICLES, Psychology and Behavioral Science Collection], Emerald Fulltext, Euromonitor, Institute of Physics Electronic Journals, IEEE Xplore, LawNet (Online Library of Malaysian Laws), Lecture Notes in Computer Science, Modern Language Associations Database, NSTP E- Media, OVID Online, PALMOILIS, ProQuest ABI/INFORM, ProQuest Agricultural Journals, ProQuest Digital Dissertations, ProQuest Education Complete, Proquest**

Perkhidmatan Pinjaman

Perkhidmatan Pinjaman merupakan perkhidmatan yang paling aktif. Dalam tempoh setahun, lebih kurang 599,743 transaksi pinjaman telah dibuat di kaunter-kaunter pinjaman yang melibatkan urusan pinjaman, pemulangan, dan pembaharuan buku dan bahan media. Dalam tahun 2006 juga, Perpustakaan mula menggunakan 'self check machine' dan 'return book slot' yang membolehkan pengguna menjalankan urusan pinjaman dan pemulangan bahan tanpa perlu berurusan di kaunter.

Perkhidmatan Pembekalan Dokumen

Sehingga akhir Disember 2006, sebanyak 1331 permohonan untuk mendapatkan bahan dari perpustakaan lain telah diterima daripada pelajar dan staf UPM, dan sebanyak 709 (53.27 %) permohonan telah dapat diproses. Dalam tempoh yang sama, 905 permohonan telah diterima daripada perpustakaan luar untuk mendapatkan bahan daripada koleksi perpustakaan ini. Daripada jumlah ini, sebanyak 874 (96.57%) telah dapat diproses, iaitu 97.97%.

Penggunaan Perpustakaan

Mengikut rekod bacaan meter di pintu masuk Perpustakaan, dalam tempoh dari Januari hingga Disember 2006, seramai 668,455 pengguna telah datang ke Perpustakaan.



Pangkalan Data dalam Talian

Untuk membolehkan pengguna mengakses lebih banyak maklumat daripada jurnal dan sumber lain melalui internet, PSAS meningkatkan lagi langganan pangkalan data dalam talian pada tahun 2006 dengan melanggan kepada pangkalan data yang berikut, iaitu American Institute of Physics / American Physical Society Journals, Biomedical Reference Collection, Communication and Mass Media Complete, Health Business Fulltext Elite, Nursing and Allied Health Collection, Psychology and Behavioral Science Collection, RefWorks, dan Wiley Interscience Journals.

Sehingga Disember 2006, Perpustakaan kini melanggan lebih kurang 40 pangkalan data dalam talian, termasuk dari dalam dan luar negara, seperti yang berikut:-

ACM Digital Library, American Chemical Society Publications, American Institute of Physics / American Physical Society Journals, American Society of Mechanical Engineers Publications, BioOne Fulltext, Blackwell Synergy, CAB Abstracts, CABI Primary Journals, CSA Illumina, Computer Database, EBSCOHost [Academic Search Premier, Biomedical Reference Collection, Business Source Premier, CINAHL, Communication and Mass Media Complete, ERIC, Health Business Elite, MEDLINE, Nursing and Allied Health

Collection, PsycARTICLES, Psychology and Behavioral Science Collection], Emerald Fulltext, Euromonitor, Institute of Physics Electronic Journals, IEEE Xplore, LawNet (Online Library of Malaysian Laws), Lecture Notes in Computer Science, Modern Language Associations Database, NSTP E- Media, OVID Online, PALMOILIS, ProQuest ABI/INFORM, ProQuest Agricultural Journals, ProQuest Digital Dissertations, ProQuest Education Complete, Proquest Medical Library, RefWorks, Science Direct, SIRIMLINK, SpringerLink, Wiley Interscience Journals and World Scientific Computer E Journal.

Pada keseluruhannya, pangkalan data ini membolehkan pengguna mengakses lebih kurang 36,000 judul jurnal teks penuh dalam pelbagai bidang.

Pangkalan Data CD-ROM

Perpustakaan kini mempunyai 27 judul pangkalan data CD-ROM dalam pelbagai bidang pengajaran dan penyelidikan, termasuklah pangkalan data yang dihasilkan oleh Commonwealth Agricultural Bureau International (CABI) dan Institute for Science Information (ISI). Pangkalan data tersebut ialah:

ABI/INFORM, Agricola, AGRIS, ASFA (Aquatic Science and Fisheries Abstracts), BeastCD, Britannica CD, CAB Abstracts, CABPESTCD, CA on CD (Chemical Abstracts on CD), Compendex Plus, Computer Select, ERIC, FHN in AGRIS, Family Studies Database, Food Science and Technology Abstracts, HORTCD, KIT Abstracts, MLA International Bibliography, MEDLINE, POPLINE, SoilCD, Science Citation Index, Social Science Citation Index, Sport Discuss, TreeCD, VETCD.

Program Pendidikan Pengguna

Program Sesi Pengenalan Perpustakaan untuk pelajar baharu telah diadakan untuk pelajar peringkat Ijazah dan Diploma bagi sesi Mei dan November 2006/07.

Selain program untuk pelajar baharu, Perpustakaan juga telah mengendalikan kelas Pendidikan Pengguna dari semasa ke semasa secara berjadual atau atas permintaan fakulti, biasanya untuk pelajar tahun akhir. Sepanjang tahun 2006, sebanyak 117 kelas Program Pendidikan Pengguna telah dikendalikan dengan mencatatkan bilangan kehadiran 3639 orang.

Pameran

Selain pameran buku baharu yang diadakan sepanjang tahun, pameran ilmiah tentang topik tertentu juga diadakan. Pada tahun 2006, Perpustakaan juga telah mengendalikan beberapa pameran sempena program atau majlis tertentu yang diadakan di UPM. Pameran yang telah dikendalikan sepanjang tahun 2006 adalah seperti di dalam **Jadual 04**.

Tajuk	Pameran
Januari	Perdana Menteri - Perdana Menteri Malaysia
Februari	Pencapaian UPM - 'Sehari Bersama Duta Asing'
Mei	75 Tahun UPM - 'Sambutan Jubli Intan 75 Tahun'
Jun	Menelusuri Sinar - 'Perutusan Naib Canselor'
Julai	Panduan Penggunaan Katalog Perpustakaan
Ogos	Benih-Benih Perubahan (Seeds of Change)
Ogos	Nobel Laurette - Peter Agre

Jadual 04 : Pameran Ilmiah Perpustakaan Sultan Abdul Samad

Medical Library, RefWorks, Science Direct, SIRIMLINK, SpringerLink, Wiley Interscience Journals and World Scientific Computer E Journal.

As a whole, the database enables the users to access about 36,000 full journal texts in various fields.

CD-ROM Database

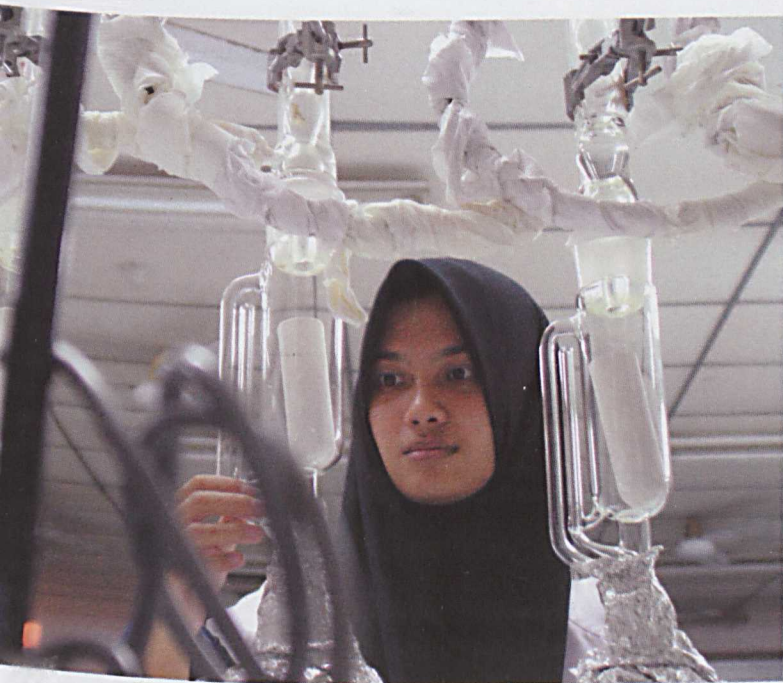
The Library currently has 27 CD-ROM Database Titles covering various fields of teaching and researching, including data base produced by the Commonwealth Agricultural Bureau International (CABI) and the Institute for Science Information (ISI). The Data Base are as follows:

ABI/INFORM, Agricola, AGRIS, ASFA (Aquatic Science and Fisheries Abstracts), BeastCD, Britannica CD, CAB Abstracts, CABPESTCD, CA on CD (Chemical Abstracts on CD), Compendex Plus, Computer Select, ERIC, FHN in AGRIS, Family Studies Database, Food Science and Technology Abstracts, HORTCD, KIT Abstracts, MLA International Bibliography, MEDLINE, POPLINE, SoilCD, Science Citation Index, Social Science Citation Index, Sport Discuss, TreeCD, VETCD.

Consumer Education Programme

The Library Introduction Session Programme for new students was conducted for Degree and Diploma students for the 2006/07 May and November Sessions.

Other than the Programmes for new students, the Library also conducted Consumer Education classes periodically from time to time or based on the requests from Faculties, usually for the final year students. Throughout 2006, a total of 117 Consumer Education Program classes were held and 3,639 people attended them.



Exhibitions

Besides Book Exhibitions, Educational Exhibitions were also held on certain topics. In 2006, the library organized a few Exhibitions in conjunction with a few programmes or events that were held at UPM. Among the Exhibitions held throughout 2006 were:



Month	Topic of Exhibition
January	Prime Ministers - Malaysia's Prime Ministers
February	UPM's Achievements - 'A Day with Foreign Ambassadors'
May	UPM's 75 Years - '75 Years Diamond Jubilee Celebration'
June	Penetrating The Rays - 'Vice Chancellor's Message'
July	Library Catalog's Usage Guide
August	Seeds of Change
August	Nobel Laureate - Peter Agre

Table 04 : Sultan Abdul Samad Educational Exhibitions

Students Intake

In 2006, UPM welcomed 8,653 new students consisting of 404 Doctor of Philosophy students, 1,229 Master's students, 6,641 Bachelor's students, 307 Diploma students and 72 students for the Centre for Foundation Studies in Agricultural Science.

The student intake breakdown was as follows:

UPM STUDENT INTAKE YEAR 2006					
No.	Programmes	Full Time	PJJ	Executive	Total
1.	Doctorate in Philosophy				404
2.	Masters				1,229
3.	Bachelors	4,962	1,388	291	6,641
4.	Diplomas	307			307
5.	Centre for Foundation Studies in Agricultural	72			72
Jumlah					8,653

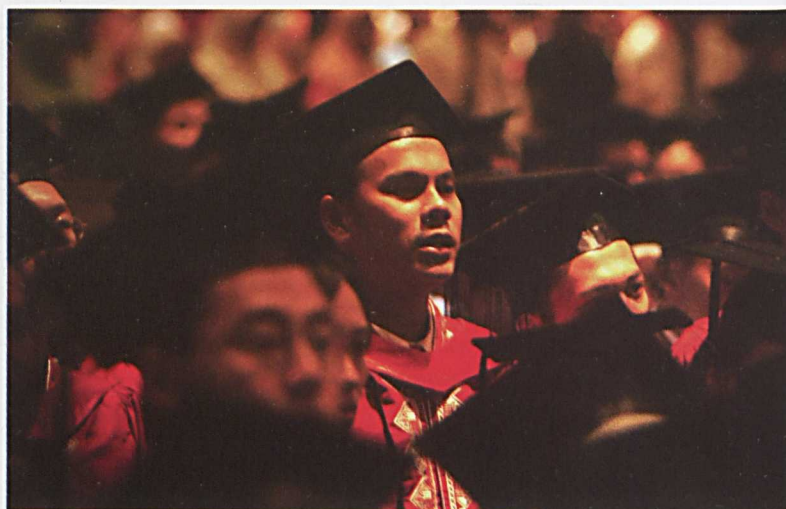
Table 05 : UPM Students Intake for the Year 2006

Pengambilan Pelajar

Pada tahun 2006, UPM telah menerima seramai 8,653 orang pelajar baharu yang terdiri daripada 404 orang pelajar Doktor Falsafah, 1,229 orang pelajar peringkat Sarjana, 6,641 orang pelajar Bacelor, 307 orang peringkat Diploma, dan 72 orang pelajar Asasi Sains Pertanian.

Agihan pengambilan pelajar adalah seperti dalam **Jadual 05**.

BILANGAN PENGAMBILAN PELAJAR UPM TAHUN 2006					
Bil.	Program	Sepenuh Masa	PJJ	Eksekutif	Jumlah
1.	Doktor Falsafah				404
2.	Sarjana				1,229
3.	Bacelor	4,962	1,388	291	6,641
4.	Diploma	307			307
5.	Asasi Sains Pertanian	72			72
Jumlah					8,653



Konvokesyen

Pada tahun 2006, UPM telah berjaya mengeluarkan 9,206 orang graduan. Para graduan telah dianugerahkan Ijazah dan Diploma pada Majlis Konvokesyen UPM Ke-30 Komemoratif yang telah diadakan dalam dua (2) sidang, iaitu pada 29 Julai hingga 31 Julai 2006 dan 16 September hingga 19 September 2006 bertempat di Pusat Kebudayaan dan Kesenian Sultan Salahuddin Abdul Aziz Shah, UPM. Konvokesyen pada tahun 2006 ini adalah Konvokesyen Komemoratif bersempena Sambutan Jubli Intan 75 Tahun UPM. Duli Yang Maha Sultan Sultan Sharafuddin Idris Shah Alhaj Ibrni Almarhum Sultan Salahuddin Abdul Aziz Shah Alhaj, Tuanku Canselor UPM telah berkenan berangkat untuk menyempurnakan penganugerahan Ijazah dan Diploma kepada para graduan. Baginda juga telah berkenan supaya Pro Canselor-Pro Canselor UPM, iaitu Tan Sri Dato' Dr. Haji Nayan Ariffin dan Tan Sri Dato' Sri Lim Ah Lek menyampaikan Ijazah dan Diploma kepada para graduan dalam majlis tersebut.

Agihan bilangan graduan peringkat Ijazah dan Diploma adalah seperti yang tertera dalam **Jadual 07**.

Bil.	Peringkat Ijazah	Jumlah Graduan
1.	Ijazah Lanjutan	
	a) Doktor Falsafah	170
	b) Master	934
	Jumlah Kecil	1,104
2.	Ijazah Bacelor	
	a) Ijazah Bacelor Sepenuh Masa	5,465
	b) Ijazah Doktor Perubatan	72
	c) Ijazah Doktor Perubatan Veterinar	63
	d) Ijazah Bacelor (PJJ)	1,257
	e) Ijazah Bacelor (Eksekutif FEP)	134
	f) Ijazah Bacelor (Eksekutif FBMK)	201
	Jumlah Kecil	7,192
3.	Diploma	
	a) Kampus Serdang	567
	b) Kampus Bintulu	336
	c) Diploma Belia dalam Kerja Pembangunan	7
	Jumlah Kecil	910
	JUMLAH BESAR	9,206



Enrolmen

Enrolmen pelajar UPM tahun 2006 terdiri daripada 1,462 orang pelajar Doktor Falsafah, 3,548 orang pelajar peringkat Sarjana, 23,354 orang pelajar Bacelor, 1,406 orang peringkat Diploma, dan 101 orang pelajar Asasi Sains Pertanian.

Agihan enrolmen pelajar mengikut peringkat pengajian dan kampus adalah seperti dalam **Jadual 06**.

ENROLMEN PELAJAR UPM 2006					
Bil.	Program	Sepenuh Masa	PJJ	Eksekutif	Jumlah
1.	Doktor Falsafah				1,462
2.	Sarjana				3,548
3.	Bacelor	19,345	2,516	1,493	23,354
4.	Diploma	1,406			1,406
5.	Asasi Sains Pertanian	101			101
Jumlah					29,869

Nota:

FEP : Fakulti Ekonomi dan Pengurusan

FBMK : Fakulti Bahasa Moden dan Komunikasi

Enrolment

UPM's students' enrolment in 2006 consist of 1,462 PhD students, 3,548 Masters students, 23,354 Bachelors students, 1,406 Diploma students, and 101 Centre for Foundation Studies in Agricultural Science.

The students' enrolment breakdown according to the level of study and campus was as follows:

UP2006 UPM STUDENTS' ENROLMENT					
No.	Programmes	Full Time	PJJ	Executive	Total
1.	Doctorate in Philosophy				1,462
2.	Masters				3,548
3.	Bachelors	19,345	2,516	1,493	23,354
4.	Diplomas	1,406			1,406
5.	Centre for Foundation Studies in Agricultural	101			101
Total					29,869

Table 06 : UPM's Students' Enrolment for 2006

Convocation

In 2006, UPM has succeeded in producing 9,206 graduates. Graduates were awarded Degrees and Diplomas at the 30th Commemorative Convocation Ceremony which was held over 2 Sessions, the first from 29th to 31st July 2006 and the second from 16th to 19th September 2006 at UPM's Sultan Salahuddin Abdul Aziz Shah Centre For Culture and Arts. This Convocation



was a Commemorative Convocation in view of UPM's Diamond Jubilee celebrations. Duli Yang Maha Mulia Sultan Sharafuddin Idris Shah Alhaj Ibn Almarhum Sultan Salahuddin Abdul Aziz Shah Alhaj, UPM's Chancellor had agreed to grace the Ceremony and personally hand over the Awards to the Degree and Diploma graduates. He had also granted permission to the Pro Chancellors, namely Tan Sri Dato' Dr. Haji Nayan Ariffin and Tan Sri Dato' Sri Lim Ah Lek to hand over the Degree and Diploma Awards to the graduates at the Ceremony.

The breakdown of Bachelor and Diploma graduates was as follows:

No.	Resource : Data Research University, UPM Degree Level	Total
1.	Advanced Degree	
	a) Doctorate in Philosophy	170
	b) Masters	934
	Sub Total	1,104
2.	Bachelor's Degree	
	a) Full time Bachelor's Degree	5,465
	b) Medical Doctor's Degree	72
	c) Veterinarian's Degree	63
	d) Bachelor's Degree (PJJ)	1,257
	e) Bachelor's Degree (FEP Executive)	134
	f) Bachelor's Degree (FBMK Executive)	201
	Sub total	7,192
3.	Diploma	
	a) Serdang Campus	567
	b) Bintulu Campus	336
	c) Diploma of Youth in Developmental Work	7
	Sub total	910
	TOTAL	9,206

Table 07 : Number of UPM Graduates in 2006

Note:

FEP : Faculty of Economics and Management

FBMK : Faculty of Modern Language and Communication

Pengurniaan Anugerah Profesor Emeritus dan Ijazah Kehormat

Bersempena Konvokesyen Komemoratif, UPM telah mengurniakan Anugerah Profesor Emeritus dan Ijazah Kehormat kepada individu berikut seperti dalam **Jadual 08**.

Bil.	Nama Penerima	Anugerah
1.	Prof. Tan Sri. Dato' Dr. Syed Jalaludin bin Syed Salim	Profesor Emeritus
2.	Prof. Dato' Dr. Hj. Ariffin bin Suhaimi Profesor	Emeritus
3.	Prof. Dr. Akira Miyawaki	Ijazah Kehormat Doktor Perhutanan
4.	DYMM Raja Perempuan Kelantan, (Dr.) Tengku Anis binti Almarhum Tengku Abdul Hamid	Ijazah Kehormat Doktor Pembangunan Pertanian
5.	Mr. (Dr.) Luc Maene	Ijazah Kehormat Doktor Pertanian
6.	Dato' (Dr.) Abu Bakar Mahmud	Ijazah Kehormat Doktor Pertanian
7.	Tan Sri Dato' (Dr.) Thong Yaw Hong	Ijazah Kehormat Doktor Ekonomi
8.	Dr. John W. Copland	Ijazah Kehormat Doktor Sains (Sains Veterinar)



Jadual 08 : Penerima Ijazah Kehormat UPM 2006





Bestowing of the Professor Emeritus Awards and Honorary Degrees

In conjunction with this Commemorative Convocation, UPM awarded Professor Emeritus Awards and Honorary Degrees to the following personalities:

No.	Recipient's Names	Award
1.	Prof. Tan Sri. Dato' Dr. Syed Jalaludin bin Syed Salim	Professor Emeritus
2.	Prof. Dato' Dr. Hj. Ariffin bin Suhaimi	Professor Emeritus
3.	Prof. Dr. Akira Miyawaki	Honorary Doctorate in Forestry
4.	DYMM Raja Perempuan Kelantan, (Dr.) Tengku Anis binti Almarhum Tengku Abdul Hamid	Honorary Doctorate in Agricultural Development
5.	Mr. (Dr.) Luc Maene	Honorary Doctorate in Agriculture
6.	Dato' (Dr.) Abu Bakar Mahmud	Honorary Doctorate in Agriculture
7.	Tan Sri Dato' (Dr.) Thong Yaw Hong	Honorary Doctorate in Economics
8.	Dr. John W. Copland	Honorary Doctorate in Science (Veterinary Science)

Table 08 : UPM's Honorary Degree Recipients for 2006





UPM
UNIVERSITI PUTRA MALAYSIA
BERSILMU BERBAKTI

Kecemerlangan Penyelidikan dan Inovasi

Research and Innovation Excellence

Kecemerlangan Penyelidikan dan Inovasi Perubahan Struktur Organisasi Pejabat Timbalan Naib Canselor (Penyelidikan dan Inovasi)

Pada tahun 2006 di bawah penstrukturan semula portfolio pejabat Timbalan Naib Canselor (Penyelidikan dan Inovasi), UPM, Pejabat ini mempunyai tiga (3) entiti yang berkaitan, iaitu Bahagian Penyelidikan dan Inovasi, Pusat Pengurusan Penyelidikan (Research Management Centre) dan Pusat Inovasi dan Pengkomersilan (Innovation and Commercialization Centre) untuk mengurus dan memantapkan R&D&C yang meliputi pengkomersilan, pempatanan, perundingan, dan harta intelek bagi produk-produk yang dihasilkan oleh universiti.

Sumber Geran Penyelidikan Universiti

UPM merupakan universiti yang sangat aktif dalam aktiviti penyelidikan sehingga menjadikannya penerima peruntukan tertinggi penyelidikan IRPA selama beberapa tahun. Sumber dana pihak Universiti berpunca daripada tiga sumber utama, iaitu perolehan geran daripada pihak kerajaan, pihak swasta, dan agensi antarabangsa.



Sepanjang tahun 2006, penyelidik UPM terus memenangi anugerah dan pengiktirafan dalam pameran di peringkat kebangsaan mahupun antarabangsa.



Jadual 09, 10 dan 11 berikut adalah senarai keseluruhan geran penyelidikan yang diluluskan pada tahun 2006 mengikut sumber pembiayaan.

i. Sumber kerajaan/ awam

Bil.	Agensi Dana	Jumlah Projek	Jumlah Peruntukan (RM)
1.	ScienceFund, MOSTI	311	48,563,873
2.	Geran Fundamental, Kementerian Pengajian Tinggi	275	16,834,077
3.	FELDA	6	1,350,200
4.	SAGA	5	675,500
5.	NBD (Biotek), MOSTI	4	2,748,500
6.	MAKNA	1	30,000
7.	MPOB	1	188,000
8.	Kementerian Kesihatan Malaysia	3	148,500
9.	FAMA	2	1,077,981
10.	Institut Penyelidikan dan Pembangunan Belia	2	73,100
11.	Jabatan Perpaduan Negara dan Integrasi Nasional	2	99,962
12.	BERNAS	1	3,256,212
13.	CIDB		
14.	GABA	1	20,738
15.	Kerajaan Negeri Johor Darul Takzim	1	1,000,000
16.	Kementerian Kemajuan Luar Bandar & Wilayah	1	250,000
17.	Pembangunan Belia Malaysia	1	23,000
18.	Lembaga Zakat Selangor	1	10,000
	Jumlah	16	13,037,620

ii. Sumber swasta

Bil.	Agensi Dana	Jumlah Projek	Jumlah Peruntukan (RM)
1.	Malaysian Toray Science Foundation (MTSF)	3	70,000
2.	Aquawin Technology Sdn. Bhd.	1	1,000,000
3.	Bank Negara Malaysia	1	5,000
4.	Darul Faiq Kuala Lumpur	1	5,000
5.	Degussa Texturant Systems (M) Sdn. Bhd	1	16,252
6.	Golden Hope Research Centre Sdn. Bhd.	3	2,165,580
7.	IPPBM	1	23,000
8.	Nepline Biotechnology Sdn. Bhd.	1	280,000
9.	NGO-Usiamas	1	15,000
10.	PBT Pasir Gudang	1	100,000
11.	RAWAFID	1	182,300
12.	South East Asian Assoc. of Glutamate Sciences	11	75,488
	Jumlah	16	13,037,620

iii. Sumber antarabangsa

Bil.	Agensi Dana	Jumlah Projek	Jumlah Peruntukan (RM)
1.	International Atomic Energy Agency	1	144,996
2.	The Ministry of Finance and Economy of Korea and Ministry of Finance Japan	1	108,254
	Jumlah	2	253,250

Bilangan projek di bawah skim Geran Penyelidikan Fundamental, Kementerian Pengajian Tinggi ialah sebanyak 275 projek dengan peruntukan yang diluluskan sebanyak RM16,834,077. Manakala, Geran Penyelidikan ScienceFund berjumlah RM 48,563,873 telah diluluskan oleh Kementerian Sains, Teknologi dan Inovasi (MOSTI) untuk membiayai 311 projek di bawah RMK-9. Jumlah keseluruhan projek termasuk daripada lain-lain sumber pembiayaan ialah 637 projek dengan jumlah keseluruhan peruntukan sebanyak RM90,140,513.

Aktiviti Penerbitan

Pada tahun 2006, saintis UPM telah menerbitkan 2,749 penerbitan, termasuk 509 makalah dengan rujukan 'cited journal' dan 498 dengan rujukan 'non-cited' dalam jurnal. **Jadual 12** menunjukkan bilangan penerbitan R&D mengikut kategori penyelidikan.

Bil.	Kategori	Bilangan Penerbitan
1.	Penerbitan dalam Jurnal 'citation-indexed'	509
2.	Penerbitan dalam Jurnal 'non-citation-indexed'	498
3.	Pengarang buku	89
4.	Bab dalam buku	234
5.	Prosiding Persidangan 'Conference Proceeding'	966
6.	Penerbitan lain	453
	Jumlah	2,749

Sumber: Data Research University, UPM

Direktori Kepakaran UPM

Pusat Pengurusan Penyelidikan (RMC) telah mengumpulkan semua maklumat kepakaran dan sumber Universiti untuk membolehkan maklumat tersebut dikongsi bersama. RMC memberikan saluran perolehan maklumat tentang kebolehan semua fakulti, kapasiti institut penyelidikan dan pusat kecemerlangan penyelidikan serta perkhidmatan yang ditawarkan.

Sehubungan itu, RMC telah mengambil inisiatif untuk menerbitkan 'Research Directory 2005 Part 2: Staff Profile - Face of Innovation'. Penerbitan 'Research Directory 2005 Part 2' ini mengandungi profil ringkas pensyarah yang disusun mengikut fakulti dan institut penyelidikan di UPM. Senarai profil dikategorikan secara urutan mengikut kedudukan pangkat pensyarah, iaitu professor, professor madya, dan pensyarah. Buku ini juga mengandungi indeks pengarang dan subjek untuk memudahkan rujukan awam.

The Restructure of Deputy Vice Chancellor (Research and Innovation) Organisational Chart

In year 2006, the organisation in Deputy Vice Chancellor (Research and Innovation) office portfolio has restructured into three (3) related entities, 'Department of Research and Innovation', 'Research Management Centre' and 'Innovation and Commercialisation Centre' to manage and improve the R&D&C which includes commercialisation, patent, consultation, and intellectual property for every product which has been produced by the university.

University Research Grant Funds

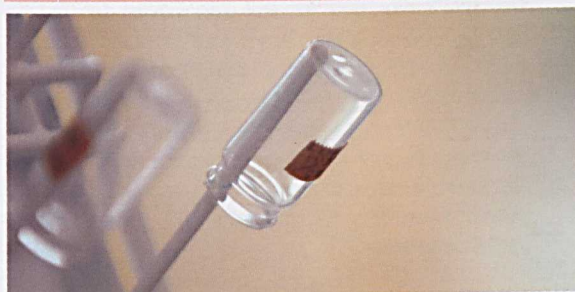
UPM has always been very active in research. UPM has received the highest Intensification of Research in Priority Areas (IRPA) research allocation for several years. The main source of the University funds comes from 3 resources which are from government, private sector and international agencies.

Tables 09, 10 and 11 below show the list of the overall research grants that have been approved in 2006 based on the sources of funding.

i. Government / Public Source

No.	Grant	No. of Projects	Total Funds Allocated (RM)
1.	Science Fund, MOSTI	311	48,563,873
2.	Fundamental Research Grant Scheme (FRGS), KPT	275	16,834,077
3.	FELDA	6	1,350,200
4.	SAGA	5	675,500
5.	NBD (Biotek), MOSTI	4	2,748,500
6.	MAKNA	1	30,000
7.	MPOB	1	188,000
8.	Ministry of Health Malaysia FAMA	3	148,500
9.	Malaysia Institute for	2	1,077,981
10.	Research in Youth Development	2	73,100
11.	Jabatan Perpaduan Negara dan Integrasi Nasional	2	99,962
12.	BERNAS	1	3,256,212
13.	CIDB		
14.	GABA	1	20,738
15.	Johor State Government	1	1,000,000
16.	Ministry of Rural and Regional Development	1	500,000
17.	Pembangunan Belia Malaysia	1	250,000
18.	Lembaga Zakat Selangor	1	23,000
		1	10,000
	Total	16	13,037,620

Table 09 : Sources of UPM's Research Grants for 2006



ii. Private Fund

No.	Grant	No. of Projects	Total Funds Allocated (RM)
1.	Malaysian Toray Science Foundation (MTSF)	3	70,000
2.	Aquawin Technology Sdn. Bhd.	1	1,000,000
3.	Bank Negara Malaysia	1	5,000
4.	Darul Faiq Kuala Lumpur	1	5,000
5.	Degussa Texturant Systems (M) Sdn. Bhd	1	16,252
6.	Golden Hope Research Centre Sdn. Bhd.	3	2,165,580
7.	IPPBM	1	23,000
8.	Nepline Biotechnology Sdn. Bhd.	1	280,000
9.	NGO-Usiomas	1	15,000
10.	PBT Pasir Gudang	1	100,000
11.	RAWAFID	1	182,300
12.	South East Asian Assoc. of Glutamate Sciences	1	175,488
	Total	16	13,037,620

Table 10 : Sources of UPM's Research Grants for 2006

iii. International Fund

No.	Grant	No. of Projects	Total Funds Allocated (RM)
1.	International Atomic Energy Agency	1	144,996
2.	The Ministry of Finance and Economy of Korea and Ministry of Finance Japan	1	108,254
	Total	2	253,250

Table 11 : Sources of UPM's Research Grants for 2006

Ministry of Higher Education has allocated RM16,834,077 to support 275 projects that are considered as highly recommended projects by the Ministry under Fundamental Research Grant Scheme (FRGS). Meanwhile, UPM also received Science Fund allocation of RM48,563,873 for 311 approved projects from Ministry of Science, Technology and Innovation (MOSTI) under the 9th Malaysia Plan (9MP). Thus, the overall projects including from other resources are 637 projects with the total allocation of RM RM90,140,513.

Publication activities

In 2006, UPM scientists have published over 2,749 publications including 509 papers with cited references and 498 non-cited references in Journals. Table 12 shows the distribution of R&D Publications according to the research category.

No.	Category	Number of Publications
1.	Publications in 'citation-indexed' journals	507
2.	Publications in 'non-citation-indexed' journals	551
3.	Books Written	77
4.	Chapters in Books	139
5.	'Conference Proceedings'	935
6.	Other Publications	137
	Total	2,346

Resource : Data Research University, UPM

Table 12 : Publications of R&D at UPM

Jurnal Pertanika

Mulai bulan Disember 2006, Pusat Pengurusan Penyelidikan telah diberikan mandat untuk menguruskan penerbitan tiga (3) siri Jurnal Pertanika UPM, iaitu Jurnal Sains Pertanian Tropika (JTAS), Jurnal Sains Sosial dan Kemanusiaan (JSSH), dan Jurnal Sains dan Teknologi (JST). RMC melalui Unit Penerbitan akan menguruskan penerbitan artikel dalam berkaitan pentadbiran manakala kerja teknikal seperti pengeditan akan dilakukan oleh Penerbit UPM.

Pencapaian dan Anugerah Penyelidikan

Sepanjang tahun 2006, penyelidik UPM terus memenangi anugerah dan pengiktirafan dalam pameran di peringkat kebangsaan mahupun antarabangsa. Kumpulan penyelidik UPM secara aktif telah menyertai lima (5) pameran di peringkat antarabangsa, tiga (3) pameran di peringkat kebangsaan dan sepuluh (10) pameran yang lain. Kedudukan Universiti sebagai organisasi penyelidikan yang cemerlang telah dibuktikan dengan memperoleh banyak penghargaan antarabangsa dalam pelbagai bidang penyelidikan seperti yang ditunjukkan dalam **Jadual 13** berikut:

Bil.	Anugerah dan Hadiah	Jadual
1.	Anugerah Antarabangsa	21
2.	Anugerah Pameran Kebangsaan	61
3.	Anugerah Khas	7
4.	Anugerah Reka Cipta dan Penyelidikan UPM	461
	Jumlah besar	550

Prof. Madya Dr. Ratnasamy Muniandy dari Fakulti Kejuruteraan mendapat pengiktirafan antarabangsa kerana telah dilantik menjadi juri profesional yang mengadili pertandingan dalam pameran INPEX, BIS, IENA, dan EUREKA.

Penyertaan dalam pameran dan pertandingan penyelidikan UPM telah menyertai pelbagai jenis pameran penyelidikan dalam tiga peringkat, iaitu di peringkat antarabangsa, peringkat kebangsaan, dan peringkat universiti. Pencapaian universiti dalam ketiga-tiga peringkat tersebut adalah dinyatakan seperti yang berikut:

Pencapaian Peringkat Antarabangsa

- International Exhibition of Invention, New Techniques and Products, Geneva 2006**
International Exhibition of Inventions, New Techniques, and Products 2006 berlangsung di Palexpo, Geneva, Switzerland pada 5-9 April 2006. Acara ini bertujuan memberi peluang kepada penyelidik dan pereka untuk mempromosikan dan mengkomersilkan reka cipta, teknik dan produk mereka yang terkini. Daripada 10 projek penyelidikan yang dipertandingkan, UPM telah memenangi 8 pingat keseluruhannya, iaitu memperoleh 3 pingat emas, 2 pingat perak, dan 3 pingat gangsa.
- Invention & New Product Exposition (INPEX 2006)**
INPEX International Show diadakan di Monroeville, Pittsburgh, USA pada 7-10 Jun 2006. Dua projek penyelidikan yang dipamerkan oleh saintis UPM telah



memenangi 3 pingat emas, 1 pingat gangsa, dan 2 Anugerah Khas, iaitu daripada Korea Invention Promotion Association (KIPA) dan daripada INPEX bagi Best Invention of the Pacific Rim.

iii. British Invention Show (BIS) 2006

British Invention Show 2006 (BIS 2006) diadakan pada 18-21 Oktober 2006 di Alexandra Palace, London. Pameran ini berteraskan prinsip bahawa reka cipta merupakan sesuatu yang penting untuk menggerakkan teknologi dunia dan mencipta kekayaan telah berjaya menarik penyertaan 200 pencipta dari seluruh dunia untuk mempamerkan idea inovatif mereka. UPM telah memenangi satu pingat emas bagi kategori penyelidikan.

iv. International Trade Fair "Ideas – Inventions – New Products" (IENA) 2006

International Trade Fair "Ideas – Inventions – New Products" (IENA 2006) diadakan pada 2-5 November 2006 di Nuremberg, Germany. IENA adalah platform untuk menempatkan dan memasarkan inovatif dan reka cipta semua peserta. UPM mempamerkan 5 R&D inovatif, penyelidikan terbaru dan kesemuanya menerima anugerah dengan 2 pingat emas dan 3 perak.

v. World Exhibition of Innovation, Research and New Technologies (EUREKA) 2006

Pameran World Exhibition of Innovation, Research and New Technologies kali ke-55 (EUREKA 2006) berlangsung di Brussels, Belgium pada 23 – 27 November 2006. Brussels-Eureka menghimpunkan lebih 500 peserta dari 30 negara dan lebih kurang 600 pelbagai jenis inovasi dan ciptaan terkini telah dipamerkan. Tiga produk inovasi dipamerkan oleh penyelidik UPM dan kesemuanya memenangi anugerah. Satu Anugerah Khas diterima dari Association of Polish Inventors dan satu pingat emas dengan Mention. Sementara itu, satu penghargaan Khas telah diterima dari Kerajaan Ukraine, satu pingat emas dengan Mention untuk penyelidikan perintis, serta satu pingat emas untuk kategori penyelidikan baharu.

UPM Research Directory

The Research Management Centre (RMC) has pooled all the University's expertise and resources to create a one-stop information point. It provides a single point of access to information about the capabilities of all the faculties, research institutes and centres of research excellence at UPM and their services.

Therefore, RMC had assumed the initiative to publish 'Research Directory 2005 Part 2: Staff Profile – Face of Innovation'. The Research Directory 2005 Part 2 contains a brief profile of the lecturers arranged by faculties and research institutes across the university. The listing is further categorized in descending order by the rank of the lecturer, i.e., professors, associate professors and lecturers. The book also consists of author and subject indices to aid in locating a specific entry.



Pertanika Journal

Starting from December 2006, Research Management Centre (RMC) has been honoured with the task of publishing one of the University's hallmarks – publication of the 3 series of Pertanika Journals, i.e. Journal of Tropical Agricultural Science (JTAS), Journal of Social Sciences and Humanities (JSSH) and Journal of Science and Technology (JST) in administrative work only that was handled by Publication Unit, while UPM Press will take over all the technical task such as editing.

Research Achievements & Awards

UPM's researchers continue to win prizes and awards at the national and international exhibition world-wide. UPM research group has actively participated in 5 international level exhibitions, 3 national level exhibitions and 10 other exhibitions.. The University's position as an outstanding research organisation was affirmed with its garnering of numerous international accolades on various research areas, thus enhancing the University's contribution to knowledge in science and technology as in the Table 13 below.

No.	Awards and Prizes	Total
1.	International Awards	21
2.	National Exhibition Awards	61
3.	Special Awards	7
4.	UPM's Design and Research Awards	461
	Grand Total	550

Table 13: UPM Research Awards in 2006

Furthermore, the outstanding Assoc. Prof. Dr. Ratnasamy Muniandy from Faculty of Engineering made UPM proud when he was appointed as one of the jury member from Malaysia for 4 international exhibitions, namely INPEX, BIS, IENA and EUREKA.

Participation and Involvement in Research Exhibition and Competition

UPM has participate in numerous research exhibitions which involved 3 levels International, National and University Level. The University achievements in all level are stated as below:

International Level Achievements

i. International Exhibition of Invention, New Techniques and Products, Geneva 2006

The International Exhibition of Inventions, New Techniques, and Products, Geneva was held at Palexpo, Geneva, Switzerland from 5th-9th April 2006. The event aimed to give researchers and inventors opportunity to promoting and commercialising their new inventions, techniques and products. Out of 10 R&D exhibits that were display by UPM, 8 received awards comprising 3 gold, 2 silver and 3 bronze medals

ii. Invention & New Product Exposition (INPEX 2006)

The INPEX International Show was held at Monroeville, Pittsburgh, USA from 7-10th June 2006. 2 researches were displayed by scientists from UPM won 3 gold medals, a bronze medal; 2 Special Awards from Korea Invention Promotion Association (KIPA) and from INPEX for Best Invention of the Pacific Rim.

iii. British Invention Show (BIS) 2006

The British Invention Show 2006 (BIS 2006) was held at Alexandra Palace in London from 18th -21st October 2006. This event with a common belief – that invention is the vital spark that drives the world's technology and new orders of wealth creation, had attracted more than 200 innovators from across the world to display their ideas. The only UPM representative has garnered a GOLD medal for research category.



Pencapaian Peringkat Kebangsaan

i. Malaysia Technology Expo (MTE) 2006

Malaysia Technology Expo 2006 (MTE 2006) diadakan sempena Pertandingan Rekacipta dan Inovasi ke-5 pada 23-25 Februari 2006 di Pusat Dagangan Dunia Putra (PWTC). Pameran dagangan tahunan ini dianjurkan oleh Malaysian Association of Research Scientists (MARS), yang bertujuan untuk menyediakan platform untuk mereka dalam industri sains, teknologi dan inovasi di Malaysia. UPM telah memenangi 24 anugerah dengan 5 pingat emas, 10 perak, dan 9 gangsa daripada 32 projek penyelidikan yang dipamerkan.

ii. International Invention, Innovation, Industrial Design and Technology Exhibition Malaysia (I-TEX) 2006

International Invention, Innovation, Industrial Design and Technology Exhibition Malaysia (I-TEX 2006) diadakan di Kuala Lumpur Convention Centre (KLCC) pada 19-21 May 2006. Pameran tahunan ini dianjurkan oleh Malaysian Invention and Design Society (MINDS) dengan tujuan untuk membantu penyelidik memperkenalkan reka cipta mereka kepada masyarakat. Tahun ini, I-TEX memberi tumpuan kepada 2 kategori utama, iaitu Bioteknologi dan Tenaga yang Boleh Diperbaharui. UPM yang mempamerkan 34 projek penyelidikan telah menerima 31 anugerah dengan 9 pingat emas, 11 pingat perak, 8 pingat gangsa serta 3 anugerah khas.

iii. Biotechnology Asia 2006

The Biotechnology Asia 2006 berlangsung di PWTC, KL, pada 9-11 Ogos 2006, bertujuan untuk mengembangkan industri bioteknologi dan memberikan peluang kepada ahli sains tempatan untuk membentuk jaringan dengan ahli sains antarabangsa serta mengkomersilkan produk inovatif mereka. Delegasi UPM telah mencapai kejayaan cemerlang apabila kesemua 9 hasil penyelidikan yang dipertandingkan telah mendapat anugerah, iaitu 1 pingat emas, 2 pingat perak, dan 6 pingat gangsa.



Pameran dan Ekspo Semasa

i. Ekspo Industri Asas Tani (EIAT) 2006

Ekspo Industri Asas Tani 2006 yang dianjurkan oleh Kementerian Pertanian dan Industri Asas Tani dengan tema, "Pertanian untuk Kesihatan dan Kekayaan" pada 16-19 Februari 2006 di Dewan Tun Razak 1,2 & Dewan Tun Hussein Onn, PWTC, telah mempamerkan hasil teknologi and inovasi dalam industri asas tani yang terkini. Lapan belas projek penyelidikan dipamerkan oleh saintis UPM. UPM telah menerima Special Recognition Award untuk Best Exhibition Booth dalam kategori Kementerian, Jabatan dan Agensi Kerajaan.

ii. Ekspo Hari Harta Intelek Negara (HHIN) 2006

Ekspo Hari Harta Intelek Negara 2006 diadakan di Kuala Lumpur Convention Centre pada 26-30 April 2006. Ekspo ini bertujuan untuk meningkatkan kesedaran masyarakat tentang peranan harta intelek yang menjadi pemangkin dalam pembangunan ekonomi, sosial, dan budaya. Tujuh produk telah dipamerkan oleh penyelidik UPM di dalam ekspo ini.

iii. IPTA R&D Roadshow 2006

IPTA R&D Roadshow 2006 yang dianjurkan oleh Kementerian Pendidikan Tinggi (KPT) dengan kerjasama Pusat Perunding Industri Kecil dan Sederhana Negara (NASMIC), dan IPTechXchange, yang bertemakan "Increasing Competitiveness thru' New Technologies" telah berlangsung pada 22 Jun 2006 di Dewan Seri Budiman, Universiti Teknologi MARA (UiTM), Shah Alam. Empat universiti awam yang menyertai roadshow ini ialah Universiti Malaya (UM), Universiti Putra Malaysia (UPM), Universiti Kebangsaan Malaysia (UKM), dan UiTM. Roadshow ini bertujuan untuk menghimpunkan para penyelidik dari IPTA dan wakil industri untuk mempromosikan teknologi baru, ciptaan, dan produk R&D mereka.

iv. The 3rd Asia Pacific Natural Products Expo 2006 (NATPRO) 2006

The 3rd Asia Pacific Natural Products Expo 2006 (NATPRO 2006), telah diadakan pada 17-19 Ogos 2006 di PWTC, KL. NATPRO dikenali sebagai platform pemasaran untuk menghimpunkan pihak industri, pencipta, kapitalis usaha niaga, technopreneurs, dan penyelidik produk alam semula jadi dan herba. Lima produk telah dipamerkan oleh delegasi UPM.

iv. **International Trade Fair "Ideas – Inventions – New Products" (IENA) 2006**

The International Trade Fair "Ideas – Inventions – New Products" (IENA 2006) was held from 2nd-5th November 2006 at the Nuremberg, Germany. IENA offered an international platform for placing and marketing innovations and inventions of participants. UPM exhibited a total 5 innovative R&D researches and all of them received awards comprising 2 Gold medals and 3 Silver medals.

v. **World Exhibition of Innovation, Research and New Technologies (EUREKA) 2006**

The 55th World exhibition of Innovation, Research and New Technologies (EUREKA 2006) was held at Brussels, Belgium from 23rd – 27th November 2006. Brussels-Eureka congregated more than 500 participants from over 30 countries and displayed about 600 innovations and patented new inventions in a variety of areas. 3 innovative products were displayed by UPM researchers and all of them were receiving awards. UPM researcher also received a Special Award from Association of Polish Inventors and a Gold Medal with Mention, a Special Recognition from the Government of Ukraine, a Gold Medal with Mention for pioneering research and a gold medal for novel research.

National Level Exhibitions

i. **Malaysia Technology Expo (MTE) 2006**

The Malaysia Technology Expo 2006 in conjunction with the 5th Invention and Innovation Competition was held at Putra World Trade Centre (PWTC) from 23rd-25th February 2006. The annual trade-focused exhibition was organized by the Malaysian Association of Research Scientists (MARS), aimed at providing the perfect platform of opportunities for the science, technology and innovation industry in Malaysia. Out of 32 R&D exhibits that were displayed by UPM, 24 were receiving awards comprising 5 gold, 10 silver and 9 bronze medals.

ii. **International Invention, Innovation, Industrial Design and Technology Exhibition Malaysia (I-TEX) 2006**

The 17th International Invention, Innovation, Industrial Design and Technology Exhibition Malaysia (I-TEX 2006) was held at the Kuala Lumpur Convention Centre (KLCC) from 19th-21st May 2006. It was organized every year the by Malaysian Invention and Design Society (MINDS) with

a goal to help the researchers bring their inventions to society. This year I-TEX focused on two main categories – Biotechnology and Renewable Energy. UPM exhibited 34 innovative R&D products, received 31 awards comprising 9 gold, 11 silver, 8 bronze medals and 3 special awards.

iii. **Biotechnology Asia 2006**

The Biotechnology Asia 2006 was held at the PWTC, KL, from 9th-11th August 2006, aimed to promote the biotechnology industry and provide local scientists opportunity to network with their counterparts from around the region and commercialising their innovative products. The UPM delegacy had a successful triumph when the entire 9 exhibits displayed by them garnered awards, comprising 1 Gold, 2 Silver and 6 Bronze medals.

Other Exhibitions

i. **Agriculture Industry Expo (EIAT) 2006**

The Agriculture Industry Expo (EIAT) 2006 organised by the Ministry of Agriculture and Agro-based Industry, with a theme, "Agriculture for Health and Wealth" was held from 16th-19th February 2006 at the Tun Razak Hall 1,2 & Tun Husserin Onn Hall, Putra World Trade Centre (PWTC), showcasing the latest technologies and innovations in the ago-based industry. 18 R&D exhibits were showcased by UPM scientists. UPM received a Special Recognition Award for Best Exhibition Booth in the Government Ministries, Department & Agencies Category.

ii. **National Intellectual Property Day Expo 2006**

The National Intellectual Property Day Expo 2006 was held at from 26th-30th April 2006. The event aimed to raise the public consciousness that intellectual property plays as a catalyst in the development of economy, social and culture. 7 products were displayed by UPM researchers.

iii. **IPTA R&D Roadshow 2006**

IPTA R&D Roadshow 2006 organized by Ministry of Higher Education together with 'National SMI Consultative Center' (NASMIC), dan IP TechXchange, with the theme "Increasing Competitiveness thru' New Technologies" was held on 22nd June 2006 in Dewan Seri Budiman, Universiti Teknologi MARA (UiTM), Shah Alam. 4 local universities took part in the roadshow which are Universiti Malaya (UM), Universiti Putra Malaysia (UPM), Universiti Kebangsaan Malaysia (UKM), and UiTM the roadshow aimed to congregate researchers from IPTA industry delegate to promote and commercialising their new inventions, techniques and products.

iv. **The 3rd Asia Pacific Natural Products Expo 2006 (NATPRO) 2006**

The 3rd Asia Pacific Natural Products Expo 2006 (NATPRO 2006), was held from 17-19 August 2006 at PWTC, KL. NATPRO has been recognized as an integrated marketing platform to congregate industry players, investors, venture capitalists, technopreneurs and researchers of herbal and natural products. 5 products were displayed by UPM delegacy.

v. **3rd Malay and Islamic Trade Exhibition (MAITREX) 2006**

The 3rd Malay and Islamic Trade Exhibition 2006 was held



v. **Ekspo Perdagangan Dunia Melayu Dunia Islam kali Ke-3 (MAITREX) 2006**

Ekspo Perdagangan Dunia Melayu Dunia Islam kali Ke-3 (MAITREX 2006) telah diadakan di Pusat Perdagangan Antarabangsa Melaka (MITC), Ayer Keroh, Melaka pada 9-11 September 2006. Pameran antarabangsa tahunan MAITREX dianjurkan sempena perhimpunan Dunia Melayu, Dunia Islam (DMDI), telah dapat menghimpunkan para pengusaha dari negara ahli DMDI untuk memasarkan produk mereka. Tahun ini, UPM diundang oleh Kementerian Pengajian Tinggi Malaysia untuk menyertai pameran ini. Sebanyak 8 hasil penyelidikan UPM telah dipamerkan dalam MAITREX 2006.

vi. **Pameran Rancangan Malaysia Ke-9**

Pameran Rancangan Malaysia Ke-9 telah berlangsung di PWTC, KL pada 13-17 November 2006 sempena Perhimpunan Agung UMNO ke-57. Pameran ini bertujuan untuk memberi pemahaman lebih jelas tentang projek yang dirancang dalam RMK-9 untuk masa depan negara kepada delegasi tempatan mahupun tetamu asing semasa perhimpunan agung ini dijalankan. Sebagai salah satu Universiti Penyelidikan, UPM diundang oleh Kementerian Pengajian Tinggi untuk mempamerkan 5 produk universiti yang telah dikomersilkan.

vii. **BioMalaysia 2006**

Pameran BioMalaysia 2006 diadakan di Pusat Konvensyen Kuala Lumpur (KLCC) pada 6 - 8 Disember 2006. Pameran ini dianjurkan oleh Malaysian Biotechnology Corporation (BiotechCorp), Malaysian BioIndustry Organisation (MBIO), dan Kementerian Sains, Teknologi dan Inovasi Malaysia (MOSTI), untuk menyahut hasrat kerajaan untuk menjadikan Malaysia sebagai salah satu hab bioteknologi yang penting di Asia. Dua belas produk inovasi UPM yang mendapat anugerah dalam pelbagai pameran telah dipilih dan dipamerkan dalam BioMalaysia 2006.



viii. **Konvensyen Nasional Komuniti Hadhari 2006 (KNKH 2006)**

Pameran 5 hari sempena Konvensyen Nasional Komuniti Hadhari 2006 (KNKH 2006) yang berlangsung pada 6-12 Disember 2006, di Masjid Wilayah Persekutuan Kuala Lumpur menekankan isu berhubung dengan Islam Hadhari dari perspektif komprehensif, termasuklah ekonomi, pendidikan, dan hal ehwal kemasyarakatan. KNKH 2006 diadakan dengan tujuan untuk menyemai amalan konsep

Islam Hadhari dalam kalangan masyarakat manakala hasil penyelidikan yang diperoleh pula digunakan untuk membina kesejahteraan komuniti.

Pameran Peringkat Universiti

i. **Pameran Reka Cipta, Penyelidikan & Inovasi UPM (PRPI) 2006**

Pameran Reka Cipta, Penyelidikan & Inovasi UPM (PRPI) 2006 telah diadakan dengan jayanya dari 22 hingga 24 Ogos 2006 di Dewan Besar, Pusat Kebudayaan dan Kesenian Sultan Salahudin Abdul Aziz Shah, UPM di bawah kelolaan Pusat Pengurusan Penyelidikan (RMC), UPM.



PRPI adalah acara tahunan untuk mempamerkan hasil penyelidikan dan inovasi staf Universiti Putra Malaysia. Pada tahun ini, sebanyak 618 penyertaan daripada 26 buah Fakulti/Institut/Pusat/Akademi/Pusat Tanggungjawab (PTJ) telah mengambil bahagian dalam pertandingan yang dianjurkan.

Pertandingan PRPI 2006 melibatkan enam kluster bidang penyelidikan UPM iaitu: Pertanian (AG), Makanan (FD), Kesihatan (HE), Perhutanan dan Alam Sekitar (FE), Sains Sosial (SS), dan Sains, Teknologi & Kejuruteraan (STE). Penyertaan pertandingan ini terbahagi kepada tiga kategori penyelidikan yang sedia ada, iaitu Penyelidikan Gunaan (58.4%), diikuti Penyelidikan Asasi (29.4%), dan Produk/Inovasi (12.2%).

PRPI 2006 telah diadili oleh seramai 84 orang hakim dari dalam dan luar kampus yang terdiri daripada individu profesional dan berpengalaman. Jumlah keseluruhan pingat yang dimenangi ialah 461 (75% daripada 618 penyertaan) dengan 56 emas, 157 perak dan 248 gangsa. Selain itu, 9 anugerah khas PRPI 2006 juga telah dimenangi oleh penyelidik UPM seperti anugerah khas EUREKA, INPEX, IENA, dan PETA.



Melaka International Trade Centre (MITC), Ayer Keroh, Melaka from 9th-11th September 2006. MAITREX is an annual international exposition organised in conjunction with the Malay World, Islamic World (DMDI) Convention, congregate entrepreneurs from member countries of DMDI to expand the marketing of their products. This year, UPM was invited by Ministry of Higher Education to participate in this exposition. 8 UPM researches were displayed.

vi. 9th Malaysia Plan Exhibition

9th Malaysia Plan Exhibition was held at the PWTC, KL from 13th-17th November 2006 during the 57th UMNO General Assembly. The event was aimed at giving a better understanding of the projects planned on 9MP for the country's future to delegates from near and far as well foreign guests during the general assembly. As one of the Research University, UPM was invited by the Ministry of Higher Education to display 5 products that have been commercialised.

vii. BioMalaysia 2006

The BioMalaysia 2006 was held at Kuala Lumpur Convention Centre (KLCC) from 6 - 8 December 2006. This event was organised by the Malaysian Biotechnology Corporation (BiotechCorp), the Malaysian BioIndustry Organisation (MBIO) and the Ministry of Science, Technology and Innovation Malaysia (MOSTI), in response on government's aspiration to develop Malaysia as one of Asia's most attractive emerging biotechnology hubs. 12 UPM innovative products which had received recognition in various exhibitions had been selected and showcased.

viii. National Hadhari Community Convention 2006 (KNKH 2006)

The five-day exhibition in conjunction with National Hadhari Community Convention (KNKH 2006) was held from 6th-11th December 2006 at Federal Territory Mosque, Kuala Lumpur retraced issues pertaining to Islam Hadhari (Civilisation Islam) from a comprehensive perspective including economy, education and social matters. KNKH 2006 was aimed at instilling the practicality of the Islam Hadhari concept among society. 7 research posters from Interim Halal Product Research Institute, UPM were displayed during the event.

Exhibitions at University Level

i. UPM Invention, Research and Innovation Exhibition (PRPI) 2006

The Invention, Research and Innovation Exhibition or PRPI 2006 was held successfully from 22nd to 24th August 2006 at the Sultan Salahuddin Abdul Aziz Shah Cultural & Arts Centre, UPM or commonly known as the Great Hall. It was organized by the Research Management Centre (RMC), UPM.

PRPI is an annual activity at UPM for displaying the innovative R&D products of the university. This year, there were 618 R&D exhibits that were displayed by various researchers from 26 Faculties/Institutes/Centres/Academy/Pusat Tanggungjawab (PTJ) across the campus, which took part in the competition.

The PRPI 2006 Exhibition and competition involved 6 R&D clusters or research groups, comprising of Agriculture (AG); Food (FD); Health (HE); Forestry and Environment (FE); Social Sciences (SS); and Science, Technology and Engineering (STE). The R&D exhibits displayed were grouped into 3 categories—Applied Research (58.4%), followed by Fundamental research (29.4%) and Product / Innovation (12.2%).

A total of 84 judges, comprising professionals and experienced individuals from within and outside campus were appointed in PRPI 2006. Out of the 618 exhibits displayed by UPM researchers, 461 or 75% of the total participants had won medals, comprising of 56 Gold, 157 Silver and 248 Bronze. Meanwhile, UPM researchers also received 9 special awards presented by EUREKA, INPEX, IENA and PETA respectively.



Commercialisation Activity

Beside the achievements and awards won by UPM through the exhibitions and research competitions, the University also successfully has commercialized products and novel research findings. In 2006, 2 products from UPM researchers have been commercialised and already in the market, as shown in Table 14.

Aktiviti Pengkomersilan

Selain pencapaian UPM menerusi aktiviti pameran dan pertandingan penyelidikan, Universiti juga telah berjaya mengkomersilkan produk dan hasil penyelidikan yang telah dijalankan. Dalam tahun 2006, 2 produk UPM telah berjaya dikomersilkan dan telah menembusi pasaran seperti yang dinyatakan dalam **Jadual 14**.

Bil.	Produk/Teknologi	Penyelidik	Industri	Kaedah Pengkomersilan
1.	Fiber Duplexer Module	Prof. Madya Dr. Mohd. Khazani Abdullah	Significant Technologies Sdn Bhd	Penjualan Terus
2.	Trichogreen™	Prof. Madya Dr. Faridah Abdullah	Foodlink (M) Sdn. Bhd. @ Unique Nutrients Sdn. Bhd.	Perlesenan

Paten

Turut tersenarai dalam kejayaan UPM ialah bilangan produk yang telah dipatenkan. Pada tahun 2006, sebanyak 5 produk/teknologi telah mendapat sijil paten (patent granted) sementara 28 produk/teknologi masih dalam status 'patent pending'. Produk/teknologi yang telah mendapat sijil paten adalah daripada negara Amerika Syarikat dan Malaysia (**Jadual 15**). Sementara 'paten pending' melibatkan peserta dari dalam dan luar negara seperti Jerman, Jepun, Switzerland, Singapura, Indonesia, dan sebagainya.

Bil.	Produk / Proses	Penyelidik	Status	Patent Details
1.	Pendulum Impact Rest Rig	Prof. Madya Dr. Wong Shaw Voon	Patent granted (2006)	USA Patent US6990845B2
2.	A Process for Treatment of Palm Oil Mill Effluent and Conversion of The Palm Oil Mill Effluent Into Biodegradable Plastics	Prof. Dr. Mohd. Ali Hassan	Patent granted (2006)	M'sian Patent MY123658A
3.	An Apparatus for Rating Building Surface and The Like	Prof. Madya Dr. Ishak Aris	Patent granted (2006)	M'sian Patent MY128276A
4.	System and Apparatus for The Treatment of Organic Effluents	Prof. Dr. Azni Idris	Patent granted (2006)	M'sian Patent MY127825A
5.	Device and Method for Indirect Measurement of Physical Property of Rock and Soil	Prof. Madya Dr Husaini Omar	Patent granted (2006)	M'sian Patent MY122672A

Sumber: Pusat Inovasi dan Penkomersilan. UPM

Aktiviti Penyelidikan kontrak

Pada tahun 2006, Pusat Inovasi dan Pengkomersilan telah berjaya melaksanakan lima penyelidikan kontrak yang melibatkan beberapa agensi seperti badan berkanun, kerajaan negeri, dan pihak swasta. Senarai penyelidikan kontrak adalah seperti yang dipaparkan dalam **Jadual 16**.

Bil.	Tajuk Projek	Ketua Perunding	Pelanggan
1.	Development of Liner Motor For The Activation Of The MPOB Motorized Cutter	Prof. Madya Dr. Norhisham Misron	MPOB
2.	Induced Resistance Using Endophytic Micoorganisms for Boiological Control of BSR	Prof. Dr. Sariah Meon	MPOB
3.	To Mass Produce Pure microalgae using photopioreactor Ekonomi Negeri Johor	Prof. Dr. Fatimah Yusoff	Kerajaan Negeri Johor
4.	RAWAFID for Project Management	Prof Dr. Fatimah Abu Bakar	RAWAFID
5.	Development of Haruan Base Biomedical Products	Prof. Dr Abdul Manan Mat Jais	Aquawin Technology Sdn. Bhd.

Sumber: Pusat Inovasi dan Pengkomersilan, UPM

No.	Products/Technology	Researcher	Industry	Commercialization Method
1.	Fiber Duplexer Module	Associate Prof. Dr. Mohd. Khazani Abdullah	Significant Technologies Sdn Bhd	Direct Selling
2.	Trichogreen™	Associate Prof. Dr. Faridah Abdullah	Foodlink (M) Sdn. Bhd. @ Unique Nutrients Sdn. Bhd.	Licensed

Patent

In addition to UPM success is the quantity of the products that has been patented. For 2006, 5 products/technologies have received 'patent granted', while the other 28 products/technologies are still in the 'patent pending' status. Products that obtained patent certification are from USA, United Kingdom and Malaysia (as shown in **Table 15**). On the other hand, participant engross in 'patent pending' are from local and international such as Jerman, Japan, Switzerland, Singapore, Indonesia and etc.

Table 15: List of UPM product patent in 2006

No.	Products/Process	Researcher	Status	Patent Details
1.	Pendulum Impact Rest Rig	Assoc. Prof. Dr. Wong Shaw Voon	Patent granted (2006)	USA Patent US6990845B2
2.	A Process for Treatment of Palm Oil Mill Effluent and Conversion of The Palm Oil Mill Effluent Into Biodegradable Plastics	Prof. Dr. Mohd. Ali Hassan	Patent granted (2006)	M'sian Patent MY123658A
3.	An Apparatus for Rating Building Surface and The Like	Assoc. Prof. Dr. Ishak Aris	Patent granted (2006)	M'sian Patent MY128276A
4.	System and Apparatus for The Treatment of Organic Effluents Device and Method for Indirect Measurement of Physical Property of Rock and Soil	Prof. Dr. Azni Idris	Patent granted (2006)	M'sian Patent MY127825A
5.		Assoc. Prof. Dr. Husaini Omar	Patent granted (2006)	M'sian Patent MY122672A

Resource: Innovation and Commercialization Centre, UPM

Consultation Activity

In 2006, Innovation and Commercialisation Centre has accomplished 5 contract consultation activities that involved several agencies such as the NGO, government and private sectors. List of the consultation is as in **Table 16**.

Table 16: List of Contract Consultation Activity in 2006

No.	Project Title Chief	Consultant	Customer
1.	Development of Liner Motor For The Activation Of The MPOB Motorized Cutter	Assoc. Prof. Dr. Norhisham Misron	MPOB
2.	Induced Resistance Using Endophytic Micoorganisms for Biological Control of BSR	Prof. Dr. Sariah Meon	MPOB
3.	To Mass Produce Pure microalgae using photopioreactor Ekonomi Negeri Johor	Prof. Dr. Fatimah Yusoff	Kerajaan Negeri Johor
4.	RAWAFID for Project Management	Prof Dr. Fatimah Abu Bakar	RAWAFID
5.	Development of Haruan Base Biomedical Products	Prof. Dr Abdul Manan Mat Jais	Aquawin Technology Sdn. Bhd.

Resource: Commercialization and Innovation Centre, UPM

Projek Perundingan

Kejayaan R&D&C dalam tahun 2006 lebih menyerlah menerusi kejayaan Pusat Pembangunan Perniagaan universiti mengadakan 35 projek perundingan bersama beberapa syarikat tempatan dan badan-badan kerajaan dengan melibatkan kos projek sebanyak RM6,072,833. Sesungguhnya kemudahan penyelidikan, teknologi dan kepakaran yang ada di UPM telah digunakan sepenuhnya untuk ditukar menjadi satu perniagaan yang menguntungkan universiti dengan menjalinkan kerjasama pintar (smart partnerships) dengan industri perniagaan dan khidmat perundingan yang berkualiti.

Anugerah Penyelidik Cemerlang (APC) 2006

Majlis Anugerah Penyelidik Cemerlang 2006 telah dianjurkan oleh UPM pada 12 April 2007 di Hotel Marriott, Putrajaya. Majlis perasmian telah disempurnakan oleh Y.Bhg. Dato' Dr. Zulkefli A. Hassan, Ketua Setiausaha Kementerian yang mewakili Y.B. Dato' Mustapa Mohamed, Menteri Pengajian Tinggi Malaysia.

Anugerah ini merupakan pengiktirafan kepada pensyarah dan penyelidik Universiti Putra Malaysia yang telah menunjukkan kecemerlangan dalam penyelidikan bagi tahun 2006 di peringkat kebangsaan dan antarabangsa. Majlis ini akan dijadikan acara tahunan oleh universiti untuk memastikan kecemerlangan berterusan dapat diraih oleh para penyelidik UPM ke arah menjadikannya Universiti Penyelidikan bertaraf antarabangsa. Penerima anugerah adalah seperti yang berikut:

Bil.	Kategori Anugerah	Penerima	Fakulti/ Institut
1.	Anugerah Kecemerlangan Antarabangsa	Prof. Madya Dr. Hawa Ze Jaafar	Fakulti Pertanian
2.	Anugerah Kecemerlangan Antarabangsa	Prof. Dr. Barkawi Sahari	Fakulti Kejuruteraan
3.	Anugerah Kecemerlangan Antarabangsa	Prof. Dr. Shattri Mansor	Fakulti Kejuruteraan
4.	Anugerah Kecemerlangan Antarabangsa	Prof. Madya Dr. Megat Johari Megat Mohd. Noor	Fakulti Kejuruteraan
5.	Anugerah Kecemerlangan Antarabangsa	Prof. Madya Dr. Sabira Khatun	Fakulti Kejuruteraan
6.	Anugerah Kecemerlangan Antarabangsa	Prof. Madya Dr. Tey Beng Ti	Fakulti Kejuruteraan
7.	Anugerah Kecemerlangan Antarabangsa	Prof. Madya Dr. Wong Shaw Voon	Fakulti Kejuruteraan
8.	Anugerah Kecemerlangan Antarabangsa	Ir. Azlan Abdul Aziz	Fakulti Kejuruteraan
9.	Anugerah Kecemerlangan Antarabangsa	Dr. Norhafizah Abdullah	Fakulti Kejuruteraan
10.	Anugerah Kecemerlangan Antarabangsa	Dr. Renuganth Varatharajoo	Fakulti Kejuruteraan
11.	Anugerah Kecemerlangan Antarabangsa	Prof. Madya Dr. Mohamad Pauzi Zakaria	Fakulti Pengajian Alam Sekitar
12.	Anugerah Kecemerlangan Antarabangsa	Dr. Aini Mat Said	Fakulti Ekologi Manusia
13.	Anugerah Kecemerlangan Antarabangsa	Prof. Dr. Kaida Khalid	Fakulti Sains
14.	Anugerah Kecemerlangan Antarabangsa	Prof. Madya Dr. Asmah Yahaya	Fakulti Sains
15.	Anugerah Kecemerlangan Antarabangsa	Prof. Dr. Fatimah Md. Yusoff	Institut Biosains / Fakulti Sains
16.	Anugerah Kecemerlangan Antarabangsa	Dr. Ahmad Bustamam Abdul	Institut Biosains / Fakulti Perubatan dan Sains Kesihatan
17.	Anugerah Kecemerlangan Antarabangsa	En. Muhammad Rezal Kamel Ariffin	Institut Penyelidikan Matematik / Fakulti Sains
18.	Anugerah Pengkomersilan	Prof. Madya Dr. Mohd. Khazani Abdullah	Fakulti Kejuruteraan
19.	Anugerah Pengkomersilan	Prof. Madya Dr. Faridah Abdullah	Fakulti Sains
20.	Anugerah Pengkomersilan	Prof. Madya Dr. Foo Hooi Ling	Institut Biosains / Fakulti Bioteknologi dan Sains Biomolekul
21.	Anugerah Penerbitan - Bidang Sains dan Teknologi	Prof. Madya Dr. Mohd Adzir Mahdi	Fakulti Kejuruteraan Institut Biosains / Fakulti
22.	Anugerah Penerbitan - Bidang Sains dan Teknologi	Prof. Madya Dr. Tey Beng Ti	Kejuruteraan
23.	Anugerah Penyelidik Muda - Bidang Sains dan Teknologi	Prof. Madya Dr. Hj Mohd Basyaruddin Hj Abdul Rahman	Fakulti Sains
24.	Anugerah Penyelidik Muda - Bidang Sains dan Teknologi	Dr. Tan Chin Ping	Fakulti Sains dan Teknologi Makanan
25.	Anugerah Penyelidik Muda - Bidang Sains Sosial dan Kemanusiaan	Dr. Norhasni Zainal Abiddin	Fakulti Pengajian Pendidikan

Consultation Project

The most outstanding success in R&D&C in 2006, is through University Business Development Centre success in organizing 35 consultation projects with several local companies and government bodies which costing about RM6, 072, 833 of the projects. As the matter of facts, the research facilities, technologies and expertise in UPM has been fully utilized, thus result into a successful business that benefit the university by having a smart partnership with the business industry and a quality consultation service.

Researcher Award for Research Excellence (APC) 2006

Researcher Award for Research Excellence 2006 ceremony organized by UPM on 12th April 2007 was held in Marriot Hotel, Putrajaya. The opening ceremony accomplished by Y.Bhg. Dato' Dr. Zulkefli A. Hassan, Chief Secretary of the Ministry representing of Y.B. Dato' Mustapa Mohamed, Ministry of Higher Education.

This award is aimed to give recognition to the UPM lecturers and researchers who have demonstrated their outstanding performances for the year 2006 at both national and international level. This event will be the annual event for the university to ensure the continuous excellences of UPM researchers towards making UPM as a world class research University.

No.	Award Category	Recipient	Faculty/Institute
1.	International Excellency Award	Assoc. Prof. Dr. Hawa Ze Jaafar	Faculty of Agriculture
2.	International Excellency Award	Prof. Dr. Barkawi Sahari	Faculty of Engineering
3.	International Excellency Award	Prof. Dr. Shattri Mansor	Faculty of Engineering
4.	International Excellency Award	Assoc. Prof. Dr. Megat Johari Megat Mohd. Noor	Faculty of Engineering
5.	International Excellency Award	Assoc. Prof. Dr. Sabira Khatun	Faculty of Engineering
6.	International Excellency Award	Assoc. Prof. Dr. Tey Beng Ti	Faculty of Engineering
7.	International Excellency Award	Assoc. Prof. Dr. Wong Shaw Voon	Faculty of Engineering
8.	International Excellency Award	Ir. Azlan Abdul Aziz	Faculty of Engineering
9.	International Excellency Award	Dr. Norhafizah Abdullah	Faculty of Engineering
10.	International Excellency Award	Dr. Renuganth Varatharajoo	Faculty of Engineering
11.	International Excellency Award	Assoc. Prof. Dr. Mohamad Pauzi Zakaria	Faculty of Environmental Studies
12.	International Excellency Award	Dr. Aini Mat Said	Faculty of Human Ecology
13.	International Excellency Award	Prof. Dr. Kaida Khalid	Faculty of Science
14.	International Excellency Award	Assoc. Prof. Dr. Asmah Yahaya	Faculty of Science
15.	International Excellency Award	Prof. Dr. Fatimah Md. Yusoff	Institute of Bioscience / Faculty Science
16.	International Excellency Award	Dr. Ahmad Bustamam Abdul	Institute of Bioscience / Faculty of Medicine and Health Science
17.	International Excellency Award	En. Muhammad Rezal Kamel Ariffin	Institute for Mathematical Research / Faculty of Science
18.	Commercialisation Award	Assoc. Prof. Dr. Mohd. Khazani Abdullah	Faculty of Engineering
19.	Commercialisation Award	Assoc. Prof. Dr. Faridah Abdullah	Faculty of Science
20.	Commercialisation Award	Assoc. Prof. Dr. Foo Hooi Ling	Institute of Bioscience / Faculty of Biotechnology and Biomolecular Sciences
21.	Science and Technology	Assoc. Prof. Dr. Mohd Adzir Mahdi	Faculty of Engineering
22.	Publication Award Science and Technology	Assoc. Prof. Dr. Tey Beng Ti	Institute of Bioscience / Faculty of Engineering
23.	Publication Award Young Researcher Award in	Assoc. Prof. Dr. Hj Mohd Basyaruddin Hj Abdul Rahman	Faculty of Science
24.	Science and Technology Young Researcher Award in	Dr. Tan Chin Ping	Faculty of Food Science and Technology
25.	Science and Technology Young Researcher Award in Social Sciences and Humanities	Dr. Norhasni Zainal Abiddin	Faculty of Educational Studies

Table 17: List of the award recipient for Researcher Award for Research Excellence (APC) 2006



Pembangunan Pelajar

Student Development

Penubuhan Pusat Kokurikulum

Pusat ini yang ditubuhkan pada akhir tahun 2006 berfungsi sebagai perancang, perangka strategi, penentuan dasar, penggubal peraturan, pengurusan pentadbiran, pengurusan pengajaran dan latihan, kejurulatihan, keperluan peralatan fizikal, pengemaskinian rekod, pemantauan pelaksanaan aktiviti, dan penyelarar penilaian setiap kursus kokurikulum yang ditawarkan.

Objektif

- Untuk memperkukuh dan memperkasa sistem pengurusan kursus kokurikulum berkredit melalui perancangan, pengurusan, dan penilaian yang sistematik.

- Untuk memberi pengiktirafan kepada pelajar yang bergerak cergas dan aktif dalam pelbagai aktiviti kokurikulum.
- Untuk melahirkan graduan yang berkualiti, berdaya saing, dan berupaya untuk terus maju melalui pembelajaran yang berterusan yang sesuai dengan Matlamat Pertama UPM.
- Untuk mewujudkan one stop centre bagi membolehkan pelajar memperoleh informasi tentang aktiviti yang dilaksanakan oleh Pusat Kokurikulum.





Fungsi

- Menggubal silibus kokurikulum berkredit yang mengandungi:
 - Learning Outcomes (LO)*
 - Kemahiran Sosial & Tanggungjawab
 - Berpengetahuan
 - Kemahiran Teknikal/Praktikal/Psikomotor
 - Pembelajaran Sepanjang Hayat & Pengurusan Maklumat
 - Kemahiran Komunikasi
 - Pemikiran Kritis & Pendekatan Saintifik
 - Kemahiran Keusahawanan & Pengurusan
 - Kemahiran Profesional, Nilai, Sikap, Etika
- Matrik Kemahiran Insaniah
 - Kemahiran Berkomunikasi;
 - Pemikiran Kritis dan Kemahiran Menyelesaikan Masalah;
 - Kemahiran Berkumpulan;
 - Pembelajaran Berterusan dan Pengurusan Maklumat;
 - Kemahiran Keusahawanan;
 - Etika dan Keprofesionalan dan
 - Kemahiran Kepemimpinan
- Merancang dan Menguruskan Keperluan Tenaga Pengajar Profesional
 - Mengenal pasti tenaga pengajar profesional;
 - Melantik tenaga pengajar.
- Mengubal tatacara dan prosedur, merangka dasar dan polisi serta menguruskan pelaksanaan dan penilaian kursus kokurikulum berkredit.

Kor Sukarelawan Polis Siswa Siswi (Suksis)

Kor Sukarelawan Polis Siswa Siswi (SUKSIS) telah ditubuhkan pada 30 Mei 2005. Penubuhannya adalah untuk menyahut saranan Perdana Menteri Malaysia, YAB Dato' Seri Abdullah

Ahmad Badawi semasa beliau menjawat jawatan Timbalan Perdana Menteri merangkap Menteri Dalam Negeri. Penubuhan pasukan SUKSIS ini adalah atas kesedaran dan kepercayaan bahawa para pelajar yang berkelayakan boleh dijana untuk menjadi modal insan yang bukan sahaja mempunyai kelulusan akademik yang cemerlang, malah mempunyai kemahiran nilai tambah serta kemahiran insaniah (soft skills) yang lain, selain memupuk semangat kesukarelawan dan mempunyai jati diri yang tinggi.

Objektif

- Memberikan pengetahuan dan kemahiran asas kepolisian.
- Membina ketahanan fizikal dan mental yang tinggi sebagai seorang anggota polis.
- Menerapkan nilai-nilai murni, jati diri, semangat patriotik, dan disiplin diri yang kental sebagai seorang warganegara dan pelajar UPM khususnya.

Pegawai Tertinggi Suksis UPM 2006

Komandan Kehormat

ACP/KS Prof. Madya Dr. Azali b. Mohamed
TNC (HEPA) UPM

Tim. Komandan Kehormat

SUPT/KS Prof. Madya Dr. Jasni b. Sabri
Pengetua Kolej Tun Perak

Ajutan Kehormat

DSP/KS En. Hashim b. Shari
Ketua BHEP

Peg. Latihan Akademik Kehormat

ASP/KS Dr Abu Sofian b. Yaacob
Pengetua Kolej Mohamed Rashid

Peg. Latihan Luar Kehormat

ASP/KS En. Mohd Shukri b. Mohamad Noor
Pen. Pengurus Kolej Tun Perak

Establishment of the Co-curriculum Centre

This Centre was established at the end of 2006. This Centre plans and structures strategy, determines policies and legislature, manages administration, teaching and training, coaches and fulfils whatever physical equipment that is required, updates records, inspects the implementation of activities, and standardizes the evaluation of every Co-curriculum Course that is offered.

Objectives

- To strengthen and upgrade the management system of the Credited Co-curriculum Course through systematic planning, management and evaluation.
- To give recognition to students who are active in various co-curriculum activities.
- To produce high quality graduates, who are competitive and able to succeed through continuous learning in line with UPM's First Objective.
- To create a One Stop Centre that enables students to gain information regarding the activities conducted by The Co-curriculum Centre.

Functions

- Develop the credited co-curriculum syllabus which contains:
Learning Outcomes (LO)
 - Social Skills & Responsibility
 - Knowledge
 - Psychomotor/Practical/Technical Skills
 - Life long Learning & Information Management
 - Communication Skills
 - Critical Thinking & Scientific Approach
 - Managerial & Entrepreneurial Skills
 - Professionalism, values, attitudes, ethics
- Human Skills Matriculation
 - Communication Skills;
 - Critical Thinking and Problem-Solving Skills;
 - Teamwork Skills;
 - Continuous Learning and Information Management;
 - Entrepreneurial Skills;
 - Ethics and Professionalism and,
 - Leadership Skills
- Plans and Manages The Requirements of Professional Educators
 - Identify Pool of Professional Educators;
 - Elect Pool of Educators.
- Formulates procedures, cultures, structures the foundations and policies, and manages the implementation and the evaluation of Credited Co-curriculum Course.

Undergraduates Voluntary Police Corps (SUKSIS)

The Undergraduates Voluntary Police Corps (SUKSIS) was established on 20th May, 2005. Its establishment was mooted by Malaysia's Prime Minister, Y.A.B. Dato' Seri Abdullah Ahmad Badawi when he was the Deputy Prime Minister cum the Home Minister at that time. The establishment of SUKSIS was based on the awareness and belief that qualified students can be groomed



to become all rounded human capital, who are excellent in their academic performance as well as possess value-added skills and other soft skills, besides nurturing a voluntary spirit and a high self esteem.

Objectives

- To provide knowledge and policy-making skills
- To enhance physical and mental endurance as police personnel
- To cultivate exemplary moral values, self esteem, patriotism and self-discipline as a Malaysian and especially as a student of UPM.

Highest Ranking Officers of UPM 2006 SUKSIS

Honourable Commandant

ACP/KS Assoc. Prof. Dr. Azali b. Mohamed
TNC (HEPA) UPM

Honourable Deputy Commandant

SUPT/KS Assoc. Prof. Dr. Jasni b. Sabri
Principal of The Tun Perak College

Honourable Adjutant

DSP/KS En. Hashim b. Shari
Head of BHEP

Honourable Academic Training Officer

ASP/KS Dr. Abu Sofian b. Yaacob
Principal of The Mohamed Rashid College

Honourable Outdoor Training Officer

ASP/KS En. Mohd Shukri b. Mohamad Noor
Assistant Manager of The Tun Perak College

Students' Facilities Development

Off-Campus Students Centre

The welfare of UPM's Off-Campus students has always been a concern of the University. Therefore, the establishment of this Centre in early March this year is very important for them to manage their affairs. Among the facilities provided are washrooms, a 'surau', meeting room, TV room, cyber room (computer with internet access), and also indoor games such as table tennis and carroms. Its strategic location, at the centre of the academic area, is perfect for students' usage, more so as it is free of charge.

Pembangunan Kemudahan Pelajar

Pusat Pelajar Luar Kampus

Kebajikan para pelajar luar kampus di UPM tidak diabaikan sama sekali oleh pihak universiti. Justeru itu, pewujudan Pusat Pelajar Luar Kampus pada awal bulan Mac tahun ini sangat bermakna untuk pelajar luar kampus bagi memudahkan urusan mereka. Antara kemudahan yang disediakan adalah bilik mandi, surau, bilik mesyuarat, bilik tv, bilik komputer berinternet, dan juga permainan santai, seperti ping pong dan karom. Lokasinya yang terletak di tengah-tengah kawasan akademik adalah amat strategik untuk memudahkan para pelajar menggunakan perkhidmatan yang disediakan secara percuma.

Pembinaan Kolej Baharu

Kolej Tujuh Belas

Kolej Tujuh Belas mula dibina pada 10 Julai 2003 serentak dengan pembinaan Fakulti Perubatan dan Sains Kesihatan, UPM dan siap sepenuhnya pada 10 Januari 2006. Pembinaan kolej ini bertujuan untuk memberikan perkhidmatan penginapan yang lebih selesa dan kondusif kepada para pelajar. Majlis penyerahan kunci bangunan telah diadakan pada 16 Jun 2006 daripada pihak pemaju kepada Universiti. Pusat pentadbiran sementara Kolej Tujuh Belas telah mula beroperasi pada 1 Jun 2006 di Astaka Seni, UPM. Kolej ini menempatkan pelajar dari Fakulti Perubatan dan Sains Kesihatan dan juga pelajar Fakulti Perubatan Veterinar.



Terdapat 4 blok bangunan penginapan pelajar, iaitu Blok A dan B bagi pelajar wanita manakala Blok C dan D bagi pelajar lelaki, surau, kiosk pelajar, kafeteria, rumah Pengetua, dan 4 unit rumah Felo. Kapasiti maksimum yang boleh ditampung adalah seramai 2,000 orang. Walau bagaimanapun, pada masa sekarang, bilangan pelajar adalah seramai 1,060 orang sahaja, termasuk 35 orang pelajar pascasiswazah yang ditempatkan di Blok C.

Kolej Lima Belas dan Kolej Enam Belas

Kolej Dua Belas (K12) dan Kolej Empat Belas (K14) yang juga dikenali sebagai Kolej BOT (Build, Operate, Transfer) menampung jumlah pelajar yang ramai iaitu melebihi 2000 orang pelajar untuk setiap kolej. Jumlah pelajar yang agak ramai ini tidak memungkinkan pihak pengurusan kolej tersebut untuk memberikan perkhidmatan yang terbaik kepada mereka. Oleh yang demikian, pembahagian K12 dan K14 kepada Kolej Lima Belas (K15) dan Kolej Enam Belas (K16) menjadikan jumlah



pelajar setiap kolej kepada purata 1000 orang pelajar sahaja. Dengan pembahagian ini, secara langsung dapat memudahkan pihak pengurusan kolej untuk memberi tumpuan kepada aspek kebajikan dan pelaksanaan aktiviti ke arah pembangunan sahsiah pelajar.

Kompleks Kolegiat

Dewan Bima Sakti, Kolej Tiga Belas

Dewan yang sepenuhnya berhawa dingin ini terletak bersebelahan dengan Pusat Kesihatan Universiti dan Kolej Tiga Belas. Dewan mula dibina pada 2 Jun 2004 dan siap sepenuhnya pada bulan Ogos 2005. Dengan kapasiti maksimum 500 orang, dewan ini telah mula digunakan buat pertama kalinya pada bulan September 2005. Selain itu, dewan ini juga dilengkapi dengan sistem audio yang standard dan lantai Timber Strips, pelbagai aktiviti telah diadakan di sini seperti Bengkel Zapin, Kursus Pembantu Universiti, dan Pemilihan Majlis Perwakilan Pelajar. Selain itu, dewan ini juga menyediakan 3 gelanggang badminton yang boleh digunakan secara percuma oleh pelajar dan kakitangan universiti.

Kompleks Kolegiat K12/14

Kompleks ini mula dibina pada 12 Oktober 2005 dan telah siap sepenuhnya pada 17 November 2006. Dengan keluasan 3,100 kaki persegi, kompleks ini mempunyai sebuah dewan yang mampu memuatkan sejumlah 1800 orang dalam satu-satu masa. Kompleks ini terletak di lokasi yang strategik, iaitu di tengah-tengah kawasan Kolej Serumpun yang merangkumi Kolej Dua Belas, Kolej Empat Belas, Kolej Lima Belas, dan Kolej Enam Belas. Selain itu, kompleks ini juga menempatkan pejabat am bagi Kolej Dua Belas dan Empat Belas. Dengan keluasan yang cukup besar dan dilengkapi dengan kelengkapan moden, kompleks ini bakal digunakan untuk pelaksanaan pelbagai aktiviti pelajar dalam suasana yang lebih kondusif dan selesa.

Kebajikan Pelajar

Bantuan Kewangan

Pada tahun 2006, sebanyak RM672,751.00 untuk bantuan kewangan telah disalurkan kepada 711 orang pelajar yang terlibat. Agihan bantuan kewangan kepada pelajar adalah seperti dalam **Jadual 18**.

Construction Of A New College

The Seventeenth College

The construction of The Seventeenth College started on 10th July, 2003, which was on the same day as the construction of UPM's Medical and Health Science Faculty of and was fully completed on 10th January, 2006. The construction of this College was aimed at providing a more comfortable and conducive accommodation for students. The handing over of the keys ceremony was held on 16th June, 2006 from the developer to the Deputy Vice Chancellor (of Research & Innovation). The temporary Administration Centre of The Seventeenth College started its operations on 1st June, 2006 at Astaka Seni, UPM. This College accommodates students from the Faculty of Medicine and Health Science and also the students from the Faculty of Veterinary Medicine.

There are four blocks at this College: Block A and B accommodate female students while Block C and D accommodate male students, a 'surau', students' kiosk, cafeteria, the Principal's residence and 4 houses for Fellows. The maximum capacity of this College is 2000 people. However, at the moment, the College accommodates only 1060 people including 35 postgraduates students who have been placed in Block C.

The Fifteenth and Sixteenth Colleges

The Twelfth College (K12) and The Fourteenth College (K14) which are also known as BOT (Build, Operate, Transfer) Colleges, accommodate quite a vast number of students but not more than 2000 students for each College. The College Management found it difficult to provide the best services to the students since there were too many students. Hence, the division of K12 and K14 to The Fifteenth College(K15) and The Seventeenth College(K16) has resulted in an average of only 1000 students per College. This division directly helps the College management to pay more attention to the students' welfare and the implementation of activities that develop the students' personality.

The Collegiate Complex

The Bima Sakti Hall, at Thirteenth College

This fully air-conditioned Hall is situated beside The University's



Healthcare Centre (Pusat Kesihatan Universiti) and The Thirteenth College. Construction of this Hall began on 2nd June, 2004 and was completed in August 2005. With the maximum capacity of 500 people, this Hall was first used in September 2005. This Hall is equipped with a high quality audio system and Timber Stripped floor. It has hosted numerous activities such as the Zapin Workshop, the University's Assistants' Course (Kursus Pembantu Universiti), and the Students' Representative Selection Ceremony. In addition, it has 3 badminton courts that can be used for free by students and the University's staff.

The K12/14 Collegiate Complex

The construction of this Complex began on 12th October, 2005 and was completed on 17th November, 2006. With a floor space of 3,100 square feet, this Complex has a Hall that can accommodate 1800 people at any one time. Its location is strategic because it is in the middle of the Serumpun College's area which includes the Twelfth College, The Fourteenth College, The Fifteenth College and The Seventeenth College. The General Office for the Twelfth College and The Fourteenth College is placed here. This complex is very spacious, with modern amenities, and can host various activities because its environment is more conducive and comfortable.



Penambahan Kenderaan

Peningkatan kemudahan untuk kebajikan pelajar merupakan salah satu daripada matlamat Bahagian Hal Ehwal Pelajar. Kebajikan pelajar tidak sahaja dalam bentuk sumbangan wang ringgit tetapi juga kemudahan fizikal. Justeru, pihak pengurusan telah membuat tempahan 4 buah bas dan 3 buah window van untuk kegunaan pelajar UPM, terutamanya semasa menjalankan aktiviti di dalam mahupun di luar kampus. Pada masa ini, BHEP telah mempunyai sebanyak 20 buah bas dan 7 buah kenderaan kecil.

Bil.	Jenis Bantuan	Bil. Penerima	Jumlah Perbelanjaan (RM)
1.	Bantuan Tabung Amanah Zakat (yuran pengajian, wang sara diri, dan bantuan latihan praktikal)	456	516,458.00
2.	Tabung kebajikan pelajar, bantuan meal card & khairat kematian	83	15,440.00
3.	Bantuan pinjaman pendahuluan	158	77,400.00
4.	Tuntutan insurans pelajar	5	31,053.00
5.	Elaun Orang Kurang Upaya (OKU)	9	32,400.00
	Jumlah	711	672,751.00

Nota:

Tuntutan untuk kematian kemalangan = RM 22,500.00

Tuntutan untuk kematian biasa = RM 8,000.00

Belanja perubatan akibat kemalangan = maksimum RM 500.00

Elaun Hospital = maksimum 3 hari (RM 20.00 / hari)

Elaun OKU = RM 300.00 sebulan/orang

Pengiktirafan Kepada Pelajar

Anugerah Naib Canselor

Anugerah yang paling berprestij ini diberikan kepada pelajar tahun akhir yang cemerlang dalam bidang akademik dan berjaya mempamerkan ciri-ciri kepemimpinan yang mantap sepanjang bergiat dalam aktiviti kokurikulum.

Tahun 2006 adalah kali ke-7 Anugerah Naib Canselor diadakan, dan seramai 74 orang pelajar telah dianugerahkan (30 orang pelajar aliran Sains dan 44 orang pelajar dari aliran Sains Sosial/Sastera).

Anugerah ini diwujudkan dengan hasrat untuk menjadi pendorong dan motivasi kepada seluruh warga kampus untuk memperlengkap diri ke suatu tahap yang terbaik dalam proses penghayatan ilmu di universiti; dan seterusnya dapat memantapkan kemahiran insaniah (soft skills) dan nilai tambah yang maksimum untuk melahirkan modal insan yang berkualiti demi pembangunan negara.

Anugerah Sukan

Pencapaian pelajar UPM dalam bidang sukan amat membanggakan. Pelbagai kejayaan telah diraih di peringkat kebangsaan mahupun di peringkat antarabangsa. Sebagai contoh, pelajar UPM telah memperoleh 2 pingat perak di temasya Sukan Asia ke-15 di Doha, Qatar melalui Azlan Mubin dalam acara sepaktakraw dan Roslinda Samsu dalam acara lompat bergalah. Anugerah Sukan UPM ini diadakan untuk memberi pengiktirafan dan penghargaan kepada atlit UPM yang telah berjaya mengharumkan nama UPM khususnya dan Malaysia amnya. Pada tahun ini, Azlan Mubin (atlit sepaktakraw) telah dipilih sebagai Olahragawan manakala untuk Olahragawati pula telah diberikan kepada Beh Shun Thing yang merupakan atlit bola tampar pantai.

Majlis Pengijazahan Kokurikulum Berkredit

Pengkreditan aktiviti kokurikulum mempunyai sistem penilaian tersendiri, iaitu keputusannya akan dimasukkan di dalam slip keputusan peperiksaan pelajar berkenaan. Pelajar yang berjaya melengkapkan semua peringkat silibus pengkreditan dengan gred MEMUASKAN (M) dalam kursus berkaitan akan dianugerahkan Sijil Pengkreditan Aktiviti Kokurikulum. Antara kelab dan persatuan yang telah dikreditkan adalah seperti kompong, caklempong, Silat Lincah, Tae Kwon Do, Tenis, dan Persatuan Bulan Sabit Merah.

Justeru itu, satu Majlis Pengijazahan Kursus Kokurikulum Berkredit telah diadakan pada 2 April 2006 di Dewan Besar, PKKSSAAS, UPM untuk menyampaikan sijil yang berkaitan kepada pelajar yang terlibat pada sesi 2005/2006. Majlis yang telah dirasmikan oleh YB Dato' Hj. Zainal Abidin bin Hj. Zin, Timbalan Menteri Pertahanan Malaysia telah menyaksikan hampir 1,000 orang pelajar telah diberikan sijil yang melibatkan 17 buah persatuan dan kelab yang berkredit.

Majlis Anugerah Seni UPM

Malam Anugerah Seni UPM 2006 (MASENI) telah diadakan untuk memberi penghargaan dan pengiktirafan kepada pelajar yang telah memberikan komitmen dan kerjasama yang baik dalam menganjurkan serta melaksanakan aktiviti berbentuk kesenian dan kebudayaan di UPM selain kejayaan dalam mengharumkan nama universiti di peringkat universiti mahupun kebangsaan dalam aktiviti kebudayaan. Penganjuran kali pertama ini telah membuka lembaran baru khusus untuk penggiat seni dan budaya di UPM, untuk bergiat dengan lebih aktif, di samping memberi nilai tambah dan melahirkan modal insan yang berkualiti. Anugerah Adiwijaya Wangsa dan Anugerah Sriwijaya Wangsa merupakan anugerah tertinggi pada majlis ini. Pada tahun 2006, dua anugerah tertinggi ini telah disandang oleh Kelab Pantun dan Puisi Cenderawasih yang diwakili oleh Saudara Mohamad bin Abdullah dan Saudari Nordiana bt. Liki. Sememangnya,

Students' Welfare

Monetary Funds

In 2006, a total of RM672,751.00 was channelled to assist 711 needy students. The distribution of the funds to these students is shown in Table 18.

No.	Types of Fund Number of recipients	Persons	Total Expenses (RM)
1.	Assistance from The Tithes Trust Fund (Educational Fees, pocket money, and practical training aid)	456	516,458.00
2.	Students' Welfare Fund, Meal Card Subsidy & "Death Allowances"	83	15,440.00
3.	Advance Loans	158	77,400.00
4.	Students' Insurance Claims	5	31,053.00
5.	Disability Allowance (OKU)	9	32,400.00
	Total	711	672,751.00

Notes:

Death claims due to accidents = RM 22,500.00

Claims for normal/natural death = RM 8,000.00

Medical expenses due to accidents = RM 500.00 maximum

Hospital allowance = Maximum of 3 days (RM20.00 /day)

Disability allowance = RM 300.00 monthly/person

Addition of Vehicles

One of the objectives of the Students' Affairs Department (Bahagian Hal Ehwal Pelajar) is to increase or upgrade the facilities for students. Students' welfare is not restricted to only monetary assistance but it also includes facilities and conveniences. Therefore, the management has allocated 4 more buses and 3 window vans for UPM students' usage, especially when the students are involved in activities, on or off campus. To date, BHEP already owns 20 buses and 7 small vehicles.

Acknowledgement of Students

Vice Chancellor's Award

This most prestigious award is given to the final year students who excel both academically and in co-curriculum activities and who have shown strong leadership qualities through their active involvement in co-curriculum activities.

The year 2006 saw the 7th time the Vice Chancellor Awards were being held. A total of 74 students received the Award (30 Science Stream students and 44 Social Science/Literature students).

This Award was created to motivate the UPM community to equip themselves and reach the highest level of personal excellence during their academic life at the University; as well as develop and maximize their soft skills and value added abilities, in order to produce superior quality human capital for the country's development.

Sports Awards

UPM's students achievement in sports is absolutely encouraging. Numerous successes were achieved both nationally and internationally. For instance, at the 15th ASEAN Sea Games in Doha, Qatar, UPM won 2 silver medals through student Azlan Mubin, who won a silver medal in 'sepaktakraw' while Roslina

Samsu, another UPM student earned herself a silver medal in the pole vault. Thus, UPM's Sports Award's objective is to give recognition and appreciation to UPM's athletes who have brought glory to UPM and made Malaysia proud at the international level. This year, the Sportsman of The Year Award went to Azlan Mubin (the sepaktakraw athlete) while the Sportswoman of The Year was won by Beh Shun Thing, a beach volleyball athlete.

Credited Co-curriculum Graduation Ceremony

The crediting of co-curriculum activities has its very own evaluation system where the results are included in a student's examination results. Students who have successfully completed every crediting syllabus in their relevant courses and graded 'SATISFACTORY' will be awarded the Co-curriculum Activities Crediting Certificate. Among the clubs and organizations that have been credited are 'kompang', 'caklempong', 'Silat Lincah', 'Tae Kwon Do', Tennis, and The Red Crescent Society.



Table 18 : Financial Assistance To Students in 2006

kedua-dua mereka layak untuk menerima anugerah tertinggi tersebut kerana kecemerlangan mereka dalam mengharumkan nama universiti di peringkat kebangsaan apabila telah menjuarai banyak pertandingan pantun antara IPT.

Antara anugerah lain yang diberikan dalam Anugerah Seni UPM 2006 adalah Anugerah Emas MASENI (Individu), Anugerah Sanggar Ulung (Sekretariat Kebudayaan Kolej Terbaik), Anugerah Panji Ulung (Kelab Kebudayaan Terbaik), dan Anugerah Sanggar Genta (Johan Keseluruhan Pertandingan Kebudayaan).

Majlis Kesyukuran Pelajar Cemerlang

Pencapaian akademik pelajar bumiputera tidak kurang hebatnya. Bilangan pelajar bumiputera yang mendapat PNGK (Purata Nilai Gred Kumulatif) iaitu 3.75 ke atas telah meningkat dari tahun ke tahun. Justeru, Majlis Doa Selamat dan Kesyukuran Pelajar Cemerlang ini diadakan untuk mengiktiraf dan menghargai pelajar ini untuk memotivasikan dalam mengekalkan prestasi cemerlang mereka sehingga bergraduat. Seramai 149 orang pelajar telah menerima sijil kecemerlangan pada majlis yang telah diadakan pada 21 Mac 2006 di ESSET, Bangi.





Hence, a Credited Co-curriculum Graduation Ceremony was held on 2nd April, 2006 at The Grand Hall, PKKSSAAS, in UPM to award Certificates to the students who have achieved satisfactory grades for the 2005/2006 Session. The Ceremony was officiated by YB Dato' Hj. Zainal Abidin bin Hj. Zin, the Deputy Minister of Defence and this Ceremony was participated by approximately 1,000 students who received Certificates involving 17 credited organizations and clubs.

The UPM Arts Awards

The 2006 UPM Arts Awards Presentation Ceremony was held in order to give recognition and acknowledgement to committed and cooperative students for organizing and conducting artistic and traditional activities at the University besides succeeding in making UPM's stand out among other Universities and at the national level in Culture and Arts. This Inaugural Ceremony opened a new chapter for those who actively promote culture and arts, to encourage them to become more active, to enhance its intrinsic value and produce quality human capital.

The Adiwijaya Wangsa Award and The Sriwijaya Wangsa Award are the highest awards at this Ceremony. In 2006, these two highest awards were won by 'Kelab Pantun' and 'Puisi Cenderawasih' which were represented by Mohamad bin

Abdullah and Nordiana bt. Liki. Unquestionable, both of them truly deserve the Awards because of their impressive achievements at the National Level as they have won many awards in "Pantun" competitions involving other universities.

There were other Awards given at that Ceremony. These include The MASENI Golden Award (Anugerah Emas MASENI) (Individual), The Sanggar Ulung Award (for the Best College Cultural Secretariat), The Panji Ulung Award (for the Best Cultural Club), and The Sanggar Genta Award (the Overall Champion in The Cultural Competition).

Thanksgiving Ceremony for Excellent Students

The Bumiputera students' academic achievement was commendable. The number of Bumiputera who achieved first grade CGPA of 3.75 and above has been increasing from year to year. Thus, a Thanksgiving Ceremony (Majlis Doa Selamat dan Kesyukuran Pelajar Cemerlang) was held to acknowledge their effort and appreciate these excellent students and motivate them to maintain their academic performance until they graduate. A total of 149 students received Certificate Of Excellence at this Ceremony that was held on 21st March, 2006 at the ESSET, in Bangi.



Pengurusan Berkualiti Quality Management

UPM sentiasa mengamalkan pengurusan berkualiti yang mencerminkan kekuatan universiti secara keseluruhan. Pemantapan Sistem Pengurusan Berkualiti yang cekap dan berkesan, telus dan mesra pelanggan yang berteraskan nilai murni akan:

- mempertingkatkan sistem pengurusan yang membudayakan pembaikan berterusan;
- melestarikan sistem pengurusan yang berteraskan prinsip ketelusan; dan
- membudayakan sistem pengurusan melalui kaedah mesra pelanggan.

“
Penilaian prestasi pengurusan telah dibuat berpandukan 4 kriteria utama, iaitu pengurusan organisasi, jawatankuasa, sistem dan prosedur serta pengurusan kewangan
”



Penyenaiaan oleh Audit Negara

Analisis Prestasi Pengurusan Badan Berkanun Persekutuan Tahun 2005

Pengauditan pengurusan telah dijalankan oleh Jabatan Audit Negara pada tahun 2005 terhadap 31 Badan Berkanun Persekutuan. Hasil analisis menunjukkan 10 (32%) daripada 31 Badan Berkanun Persekutuan yang diaudit mencapai tahap pengurusan baik, 19 (61%) adalah memuaskan, dan 2 (7%) dikategorikan lemah. Penilaian prestasi pengurusan telah dibuat berpandukan 4 kriteria utama, iaitu pengurusan organisasi, jawatankuasa, sistem dan prosedur serta pengurusan kewangan. Keputusan analisis telah dikeluarkan pada tahun 2006 dan UPM berada di kedudukan (ranking) keenam (6) iaitu dikategorikan sebagai baik daripada 31 Badan Berkanun yang telah diaudit.

MS ISO 9001:2000

Pada tahun 2006, beberapa fakulti dan pusat tanggungjawab, seperti Fakulti Pengajian Alam Sekitar, Fakulti Pengajian Pendidikan, dan Pusat Pendidikan Luar mendapat persijilan MS ISO 9001:2000. Sehingga 31 Disember 2006, 15 PTJ telah mendapat persijilan MS ISO 9001:2000.



e-Pengurusan

Untuk memantapkan sistem pengurusan berkualiti yang cekap dan berkesan selari dengan kemudahan ICT di UPM, Pusat Interim Komputer telah dipertanggungjawabkan untuk membangunkan dan mengukuhkan sistem pengajaran, penyelidikan, dan pentadbiran universiti.

e-IHRAMS

Sistem Pengurusan Sumber Manusia Bersepadu Elektronik (e-IHRAMS) dibangunkan untuk memenuhi sistem aplikasi berasaskan web. Sistem e-IHRAMS berasaskan sistem IHRAMS yang mula digunakan pada bulan Januari 2000. Sistem IHRAMS adalah untuk urusan pembayaran gaji staf UPM dan dinaik taraf menjadi Sistem Pengurusan Sumber Manusia Elektronik Bersepadu (e-IHRAMS). Pada keseluruhannya, sistem e-IHRAMS ini merangkumi pangkalan data maklumat staf, perjawatan, latihan, kenaikan pangkat, persaraan, dan perkhidmatan staf.

e-KLINIK

Sistem e-KLINIK beroperasi sepenuhnya di Pusat Kesihatan Universiti pada tahun 2004 dengan menggunakan platform web dan digunakan secara menyeluruh untuk pekhidmatan kesihatan dan pergigian kepada pelajar, staf, dan masyarakat. Pada tahun 2006, sistem ini dipertingkatkan untuk mengurangkan masa menunggu rawatan dan mengambil ubat dengan peningkatan

spesifikasi kelajuan server dan kapasiti CPU.



Sistem Cuti Online

Sistem Cuti *Online* telah beroperasi sepenuhnya pada tahun 2006 di seluruh kampus. Dengan demikian, pelbagai urusan cuti staf telah dapat dipantau secara berkesan di peringkat Universiti.

Sistem Maklumat Pengurusan Kewangan

Sistem Maklumat Pengurusan Kewangan yang menggunakan *standard accounting for government agency (SAGA)* telah menggunakan server baharu mulai tahun 2006. Penggunaan server baharu ini dapat mempercepatkan lagi proses pengurusan kewangan UPM.

Sistem e-PAY SAGA, iaitu Portal pembayaran Bendahari untuk staf UPM digunakan untuk memantau maklumat bayaran secara *online* telah siap dibangunkan dan pada tahap pengujian terakhir. Manakala Sistem *Electronic Fund Transfer (EFT)*, iaitu kemudahan pembayaran melalui pindahan wang terus ke bank adalah di peringkat kemaskini data staf sebelum dibuat ujian penggunaannya. Pembangunkan baru ke atas sistem *Overseas Student Payment Order System (OSPOS)* sedang giat dilaksanakan bagi urusan pembayaran elaun staf yang melanjutkan pengajian di luar negara, bagi menggantikan sistem pembayaran melalui draf bank. Selain daripada itu, sistem *GSO Ledger* untuk *Student Accounting System (SAS)* yang bersepadu dengan sistem SAGA telah dibangunkan. Begitu juga untuk SAS bagi program Eksekutif, Fakulti Ekonomi dan Pengurusan serta bagi Fakulti Bahasa Moden dan Komunikasi yang telah dapat meningkatkan proses pemantauan ke atas pengurusan kutipan yuran pelajar. Sistem ini telah mendapat perhatian daripada beberapa IPTA dan IPTS.



UPM persistently practices quality management to mirror the University's overall strength. The upgrading of the Quality Management System to become even more competent, efficient, transparent and customer-friendly and based on moral values will result in:

- Upgrading the management system to cultivate continuous improvement;
- Preserving a management system that is principally transparent
- Culturalizing the management system to practise customer-friendliness.

Listing by The National Audit

The 2005 Management Performance Analysis of The Federation of Regulatory Bodies

The management audit was conducted by the National Auditing Department in 2005 involving 31 Regulatory Bodies in the Federation. The results show that 10 (32%) out of the 31 Bodies achieved a good management level, 19 (61%) of them were satisfactory and 2 (7%) of them were weak. The Management Performance Analysis was based on 4 main criteria, namely organizational management, the committee, systems and procedures as well as financial management. The results of the analysis were published in 2006 and UPM was ranked 6th best, out of the 31 Bodies that were audited.

MS ISO 9001:2000

In 2006, a few of the Responsibility Centres and Faculties, such as the Faculty of Environmental Studies, the Faculty of Educational Studies and the Centre For External Studies received the MS ISO 9001:2000 Certification. As of 31st December, 2006, 15 PTJs have received the MS ISO 9001:2000 Certificate.

e-Management

To improve the quality of the management system in terms of competency and efficiency, and keep it abreast with the ICT facilities at UPM, the Interim Computer Centre was given the responsibility to build and strengthen the University's teaching, research and administration systems.

e-IHRAMS

The Electronic Integrated Human Resource and Management System (e-IHRAMS) was developed to fulfil the web-based application system. The e-IHRAMS system is based on the

IHRAMS system that began in January 2000. The IHRAMS system was used to manage UPM's staff salary payment and it was later upgraded to the Electronic Integrated Human Resource and Management System. On the whole, the e-IHRAMS system comprises a data base on staff related information, employment, training, promotions, and staff services.

e-CLINIC

e-CLINIC began operating fully at the University's Healthcare Centre in 2004 using a fully web-based platform to provide health and dentistry service for the students, staff and society. In 2006, this system was upgraded to reduce the waiting time for treatment and medication by significantly improving the server's specification speed and CPU's capacity.

Online Leave System

The Online Leave System began operating fully in the entire campus in 2006. Thus, the management of all matters related to the staff's holiday could be effectively observed at the University level.

Financial Management Information System

The old Financial Management Information System which used the Standard Accounting for Government Agencies (SAGA) began using a new server from the beginning of 2006. This new server has sped up UPM's financial management processes.

The SAGA e-PAY System, which is the Bursary's Payment Portal for UPM staff, is being used to monitor information concerning payments online. It has been tested and is at its final trial stage. Meanwhile, the EFT System (Electronic Fund Transfer), which is a payment facility that transfers money directly to the bank, is being upgraded to update its staff's data before the trial operations are done. New developments in the Overseas Students Payment Order System (OSPOS) are being accelerated to manage the allowance payment for staff studying abroad, with the aim of substituting the former payment system using bank drafts. Besides this, the GSO Ledger System for the 'Student Accounting System' (SAS) that has been integrated with the SAGA system has been developed. Similarly, the 'Student Accounting System' for Executive Programmes, the Faculty of Economy and Management, and also for the Faculty of Modern Language and Communication have improved the observation process involved in the management of students' fees collection. This system has gained a lot of attention from several IPTA and IPTS.





Pengurusan Sumber Manusia

Human Resource Management

Pejabat Pendaftar, UPM merupakan bahagian yang bertanggungjawab ke atas pengurusan sumber manusia di Universiti Putra Malaysia. Pejabat Pendaftar telah diamanahkan untuk matlamat kelima dalam Pelan Strategi Universiti Putra Malaysia, iaitu:

Matlamat 5: Membangunkan sumber manusia dan persekitaran kerja yang cemerlang.

Tahun 2006 merupakan tahun yang mencabar bagi pengurusan sumber tenaga manusia di Pejabat Pendaftar kerana terdapat beberapa perkara penting berlaku, seperti:

- pertukaran pucuk pimpinan Pejabat Pendaftar;
- penstrukturan semula Pejabat Pendaftar;
- inisiatif Perancangan Pembangunan Kerjaya Staf;
- memperkasa latihan dalam perkhidmatan; dan
- persediaan untuk menghadapi Universiti Penyelidikan

Mulai 1 Julai 2006, pihak Pengurusan Universiti bersetuju dengan cadangan penstrukturan semula organisasi Pejabat Pendaftar dengan melibatkan entiti baharu, iaitu perkhidmatan korporat yang mengandungi perkhidmatan Pusat Islam, Bahagian Keselamatan, dan Pusat Kesihatan Universiti.



Staf merupakan aset yang paling penting bagi sesebuah organisasi, dan menyedari hakikat ini Pejabat Pendaftar telah melancarkan dua inisiatif, iaitu Program Pembangunan Kerjaya Staf dan Program Pengukuhan Latihan Staf





Pejabat Pendaftar telah melalui pengauditan oleh dua agensi yang berlainan. Pada bulan Januari 2006, Pejabat Pendaftar telah melepasi Audit Pengawasan Pertama dan dianugerahkan Sijil MS ISO 9001:2000 dengan No. Persijilan AR 3477. Pasukan audit Universiti Penyelidikan KPT telah mengaudit Pejabat Pendaftar pada bulan Jun, dan berpuas hati bahawa pengurusan sumber manusia Universiti telah menepati kriteria Universiti Penyelidikan.

Staf merupakan aset yang paling penting bagi sesebuah organisasi, dan menyedari hakikat ini Pejabat Pendaftar telah melancarkan dua inisiatif, iaitu Program Pembangunan Kerjaya Staf dan Program Pengukuhan Latihan Staf.

Program Pembangunan Kerjaya Staf

Program Pembangunan Kerjaya Staf akan memastikan setiap Skim Perkhidmatan mempunyai peluang kenaikan pangkat yang lebih baik dan terancang. Staf yang masih lagi berada dalam skim perkhidmatan yang telah dijumlahkan dikenal pasti dan dibantu untuk peningkatan kerjaya mereka. Pejabat Pendaftar juga giat menyediakan pelapis golongan untuk menggantikan tempat peneroka dan peneraju ilmu yang sedia ada apabila tiba masanya kelak. Usaha ini penting untuk memastikan kecemerlangan universiti yang berterusan.

Bilangan Staf

Bilangan keseluruhan staf Universiti Putra Malaysia pada tahun 2006 adalah seramai 4,611 orang. Kumpulan Pengurusan



Tertinggi seramai 167 orang, Kumpulan Pengurusan dan Profesional (akademik dan bukan akademik) seramai 2,134 orang, dan Kumpulan Sokongan seramai 2,310 orang.

Pelantikan dan Kenaikan Pangkat

Sepanjang tahun 2006, Universiti Putra Malaysia telah berjaya melantik seramai 476 orang pegawai untuk mengisi 247 kekosongan dalam Kumpulan Pengurusan dan Profesional (Akademik dan bukan akademik) dan 229 jawatan dalam Kumpulan Sokongan. Selari dengan persediaan UPM sebagai Universiti Penyelidikan, Pusat Kecemerlangan Pendidikan Pertanian Negara dan sokongan aktiviti pengurusan dan pentadbiran yang berkualiti, Universiti telah mengambil langkah proaktif dengan melantik 188 orang pegawai Kumpulan Pengurusan dan Profesional (bukan akademik) dan 422 orang pegawai Kumpulan Sokongan secara kontrak.



Seramai 175 orang staf telah dinaikkan pangkat. 16 orang Profesor telah dinaikkan pangkat dari Gred VK7 ke VK6, 9 orang Profesor Madya Gred DS54 dinaikkan ke jawatan Profesor VK7, 16 orang Pensyarah Gred DS45 dinaikkan pangkat ke jawatan Profesor Madya Gred DS54, dan 29 orang Pensyarah Gred DS/DU45 telah dinaikkan pangkat ke jawatan Pensyarah Gred DS/DU52. Bagi jawatan bukan akademik pula, seramai 43 orang staf dari Kumpulan Pengurusan dan Profesional telah berjaya mendapat kenaikan pangkat. Bagaimanapun, staf dalam Kumpulan Sokongan mendapat kenaikan pangkat yang paling banyak, iaitu seramai 62 orang.

Persaraan dan Meninggalkan Perkhidmatan

Pada tahun 2006, seramai 109 orang staf Kumpulan Pengurusan dan Profesional dan 15 orang staf Kumpulan Sokongan telah meletak jawatan.

Bilangan pegawai yang bersara adalah seramai 111 orang, iaitu 91 orang bersara wajib dan 20 orang bersara pilihan. Seramai 8 orang staf telah meninggal dunia semasa dalam perkhidmatan.

Cuti Belajar dan Cuti Sabatikal

Program Pembangunan Modal Insan dalam Rancangan Malaysia Kesembilan telah menambah kemudahan untuk membolehkan staf Universiti Putra Malaysia melanjutkan pelajaran. Seramai 110 orang telah diluluskan cuti belajar di luar dan dalam negeri, iaitu 30 orang mengikuti pengajian di peringkat Master dan 80 orang lagi di peringkat Doktor Falsafah (Ph.D). Bilangan ini merupakan

UPM's Registrar's Office is responsible for human resource management at UPM. The Registrar's Office has been entrusted with The Fifth Objectives in UPM's Strategical Plan, which cover:

The Fifth Objective: To develop human resource and an excellent working environment.

The year 2006 was a challenging year in human resource management at the Registrar's Office because of the occurrence of important events such as:

- The changes in leadership at the Registrar's Office;
- The restructuring of the Registrar's Office;
- The Staff's Career Development Planner initiatives;
- The enhancement of training standards related to services; and
- The preparations to face the challenges of being a Research-based University

As of 1st July, 2006, the University's Management had agreed with the suggestion to restructure the Registrar's Office organization with the help of a new entity, i.e. a corporate service that includes services such as an Islamic Centre, a Safety Department, and the University's Health Centre.

The Registrar's Office had been audited by two different Agencies. In January 2006, the Registrar's Office passed The First Observation Audit and was granted the MS ISO 9001:2000 Certificate numbered AR 3477. In June, the KPT Research University's Audit team then audited the Registrar's Office and was satisfied that UPM's human resource management met all the needed criteria of a Research University.

The staff is the most important asset in an organization, and realizing this fact, the Registrar's Office has introduced two initiatives, i.e. the Staff's Career Development Programme and the Staff's Thorough Training Programme.

The Staff's Career Development Programme

The Staff's Career Development Programme will ensure that every Service Scheme will offer a better and well planned opportunity for promotion. Staff who are under this Scheme are identified and assisted to ensure their career development. The Registrar's Office also prepares the apprentice to replace the positions vacated by the pioneers and innovators of knowledge when the time comes. This effort is vital to ensure the University's standards of excellence are maintained.

Staff Strength

The overall number of UPM's staff in 2006 was 4,525 persons. The Senior Management Team consisted of 144 people, while the Management and Professionals Group (academic and non-academic) consisted of 2,100 people and other support group personnel comprised 2,281 people.

Appointment and Promotion

Throughout 2006, Universiti Putra Malaysia successfully elected 476 officers to fill in 247 vacant positions in the Management and Professional Groups (academic and non-academic) and 229 positions in the Support Groups. In line with UPM's preparations to excel as a Research University, and the National Agricultural Education Excellence Centre which is supported by



quality management and administration activities, the University took several proactive steps by electing 188 officers for the Management and Professional (non-academic) Group and another 422 Officers in the Support Group on a contract basis.

A total of 175 staff was promoted. 16 Professors were promoted from VK7 Grade to VK6 Grade, 9 Associate Professors of DS54 Grade were promoted to VK7 Grade, 16 DS45 Grade Lecturers were promoted to the DS54 associate Professors' Grade, and 29 DS/DU45 Grade Lecturers were promoted to DS/DU52 Grade Lecturers. For non-academic spots, there were 43 staff from the Management and Professionals Group who were promoted. However, the Support Group staff received the highest number of promotions, i.e. 62 of them, to be specific.

Retirement and Leaving The Service

There were 109 staff from The Management and Professionals Group and 15 staff from the Support Group who resigned.

The number of Officers who retired was 111, of which 91 of them took compulsory retirement while 20 others took optional retirement. And there were 8 staff who died while they were in service.

Study Leave and Sabbatical Leave

The Human Capital Development Programme under the Ninth Malaysian Plan (Rancangan Malaysia Kesembilan or RMK9) has made provisions for UPM staff to further their studies. A total of 110 staff was given permission to study local and overseas, of which 30 of them are pursuing their Masters Degree while 80 others are pursuing their Doctorate in Philosophy (Ph.D). The figure shows an increase of 24% compared to 2005. Besides furthering their studies, 12 others have been given sabbatical leave to expand their field of expertise and skills.

Staff Improvement Programme

Through this Programme, the Registrar's Office has successfully trained 2,348 staff and has carried out a total of 96 courses. Among the courses are the Induction Course, The Competency Evaluation Course, Academic Skills, Research, Leadership and Management Research, Communication and Language, Personal and Team Development, Career Development, ICT Skills, Law and Its Implementation, Worker's Safety and Healthcare, Technical and Financial Courses.

penambahan sebanyak 24% berbanding tahun 2005. Selain melanjutkan pelajaran, seramai 12 orang staf telah diluluskan cuti sabatikal untuk mengembangkan bidang keilmuan dan kepakaran mereka.

Program Pengukuhan Staf

Melalui Program Pengukuhan Latihan Staf, Pejabat Pendaftar telah berjaya melatih seramai 2,348 orang staf dan menganjurkan sebanyak 96 buah kursus. Kursus terdiri daripada Kursus Induksi, Kursus Penilaian Tahap Kecekapan, Kemahiran Akademik, Penyelidikan, Kepimpinan dan Pengurusan, Komunikasi dan Bahasa, Pembangunan Diri dan Pasukan, Pembangunan Profesion, Kemahiran ICT, Perundangan dan Penguatkuasaan, Keselamatan dan Kesihatan Pekerja, Teknikal dan Kewangan.

Kursus Induksi

Sepuluh (10) Kursus Induksi telah dilaksanakan yang disertai oleh 372 orang staf baharu, iaitu 3 sesi bagi kumpulan Pengurusan dan Profesional (131 orang) dan 7 sesi bagi Kumpulan Sokongan (241 orang).

Seramai 629 orang pegawai telah mengikuti Program Penilaian Tahap Kecekapan sepanjang tahun 2006 seperti dalam **Jadual 19**.

Tahap Kecekapan	Pengurusan & Profesional (Akademik)		Pengurusan & Profesional (Bukan Akademik)		Perkhidmatan Sokongan	
	Bil. Peserta	Taburan (%)	Bil. Peserta	Taburan (%)	Bil. Peserta	Taburan (%)
TK 6	7	4	-	-	-	-
TK 5	19	10	-	-	-	-
TK 4	25	13	-	-	8	2
TK 3	141	73	38	41	17	5
TK 2	0	0	3	3	94	27
TK 1	0	0	52	56	225	66
Jumlah	192	100	93	100	344	100

Jadual 19: Pegawai yang mengikuti Program PTK 2006

Peperiksaan Khas dan Peperiksaan Kenaikan Pangkat Secara Lantikan (KPSL)

Pejabat Pendaftar telah menjalankan beberapa inisiatif untuk membantu peningkatan kerjaya staf, iaitu dengan mengadakan beberapa siri peperiksaan perkhidmatan, peperiksaan khas, dan *bridging programme*. Antaranya ialah Peperiksaan Khas untuk memasuki Skim Perkhidmatan Penolong Pegawai Tadbir, Penolong Pegawai Sains, Penolong Pegawai Perpustakaan, dan Penolong Pegawai Pertanian. Manakala Peperiksaan Kenaikan Pangkat Secara Lantikan (KPSL) untuk Pengurus Asrama juga dijalankan. Peperiksaan Perkhidmatan untuk Kumpulan A, B, C dan D, Pembantu Tadbir Perkeranian dan Operasi, dan Pembantu Tadbir Kewangan telah dijalankan sebanyak 2 kali sepanjang tahun 2006.

Program Latihan Pembangunan Staf

Antara kursus yang telah dijalankan untuk meningkatkan kemahiran staf sepanjang tahun 2006 adalah seperti yang berikut:

Anjuran Pejabat Pendaftar

- Kursus Pembangunan Pasukan
- Kursus Pemantapan Prestasi Kerja & Kepimpinan Staf Sokongan
- Bengkel Sehari untuk Pegawai Lantikan Baru
- Program Sehari Bersama Setiausaha

- Program Prapersaraan untuk Kumpulan Sokongan
- Program Prapersaraan untuk Kumpulan Pengurusan & Profesional
- Bengkel Pengurusan Aset
- Bengkel Penulisan Minit Mesyuarat
- Kursus Peningkatan Profesionalisme Pemandu Universiti
- Pengendalian Kes Tidak Hadir Bertugas
- *Retreat* Undang-undang
- Bengkel Undang-undang & Tadbir Urus untuk Ketua Pusat Tanggungjawab & Pentadbir
- Bengkel Pemantapan Modal Insan melalui Pematuhan Tatatertib
- *Legal Workshop on Administration of Contract Agreement for University Administrators*
- Konferensi Undang-undang & Tadbir Urus untuk Pentadbir Universiti
- Kursus Pembimbing Rakan Sebaya
- Program Kaunseling "Assalamualaikum Siapa Di Sana"
- Program Pembangunan Insan
- Kursus berkaitan Sistem Pengurusan Kualiti MS-ISO 9001:2000
- Bengkel Kesedaran Keselamatan Makmal
- Kem Dendrologi dan Sukatan Staf
- Kursus Pekerja Minda Kelas Pertama
- Seminar *Developing True Potential*
- Kursus Pengurusan Mesyuarat, Penyediaan Kertas Kerja & Penulisan Minit

The Induction Course

Ten Induction Courses were conducted and 372 new staff participated in them. There were 3 Sessions for the Management and Professionals Group (131 people) and 7 Sessions for the Support Group (241 people).

A total of 629 Officers participated in The Competency Evaluation Programme (Program Penilaian Tahap Kecekapan or PTK) throughout 2006 and the details are shown in Table 19.

Level Of Competence	Management & Professionals (Academic)		Management & Professionals (Non-academic)		Support Services	
	Number of participants	Composition (%)	Number of participants	Composition (%)	Number of participants	Composition (%)
TK 6	7	4	-	-	-	-
TK 5	19	10	-	-	-	-
TK 4	25	13	-	-	8	2
TK 3	141	73	38	41	17	5
TK 2	0	0	3	3	94	27
TK 1	0	0	52	56	225	66
Total	192	100	93	100	344	100

Table 19: The Officers who participated in The 2006 Competency Evaluation Programme (PTK)

Special Examinations and Examination for Promotion Purposes Through Appointment (KPSL)

The Registrar's Office has taken a few initiatives to help improve the staff's career, that is by holding a series of service examinations, special examinations, and bridging programmes. Among them were the Special Examinations to enter the Service Scheme for the Deputy Administrative Officer, Deputy Science Officer, Deputy Library Officer, and Deputy Agriculture Officer. On the other hand, the Promotion by Appointment Examination for the Hostel Manager was also held. The Service Examination for Groups A, B, C, and D, as well as the Clerical and Administrative Operations Assistant, and Financial Administration Assistant was conducted twice in 2006.

Staff Development Training Programme

Throughout 2006, the Courses held to improve the staff's skills were:

Organized by The Registrar's Office

- A Course on Team Development
- A Course on Improving Work Performance and Leadership among Support Staff
- A One Day Workshop for Newly Appointed Officers
- A One Day Programme with The Secretary
- Preretirement Programme for The Support Group
- Preretirement Programme for The Management and Professionals Group
- Workshop on Assets Management
- Workshop on Meeting Minutes' Writing
- A Course on Upgrading The Professionalism of the University's Drivers
- Handling Absenteeism at Work
- Law Retreat
- Workshop on Laws and Administrative Management for Heads of The Centre of Responsibility and Administrators

- Workshop on The Betterment of Human Capital Through Conformity To Guidelines
- Legal Workshop on Administration of Contract Agreement for University Administrators
- Conference on Laws and Administrative Management for University Administrators
- "Peer to Peer Counselling" Course
- The "Hello, Who's There" Counselling Programme
- Human Development Programme
- A Course related to The MS-ISO 9001:2000 Quality Management System
- Workshop on Laboratory Safety Awareness
- A Camp on Dendrology and Staff Measurement
- A Course on First Class Worker's Mind
- Seminar on Developing True Potential
- A Course on Meeting Management, Preparation of Proposals and Minute Writing

The Workshops organized by the Centre of Academic Development are shown below:

- A Workshop on The Learning Outcomes' Initiatives 1 (LO1)
 - The outcomes of Learning, Curriculum & Evaluation
- A Workshop on The Learning Outcomes' Initiatives 2 (LO2)
 - Learning Styles and Delivery Techniques
- A Workshop on Soft Skills (K1)

Workshops and Courses Organized by the School of Graduates Studies are shown below:

- A Workshop on "Providing Quality Supervision"
- A Workshop on "Cracking The Code (A Workshop for PhD Students)"
- The 2nd Workshop on HPC (Workshop On MPI Programming 2006)
- A Workshop on "Providing Quality Postgraduate Supervision"
- A Workshop on "Publishing for Postgraduate Students"
- A Course on "Basic Academic Writing"
- A Course on "Communicating in English 1"

Bengkel yang dianjurkan oleh Pusat Pembangunan Akademik adalah seperti yang berikut:

- Bengkel Inisiatif Hasil Pembelajaran 1 (LO1)
 - Hasil Pembelajaran, Kurikulum & Penaksiran
- Bengkel Inisiatif Hasil Pembelajaran 2 (LO2)
 - Gaya Pembelajaran dan Teknik Penyampaian
- Bengkel Kemahiran Insaniah (K1)

Bengkel dan Kursus Anjuran Sekolah Pengajian Siswazah adalah seperti yang berikut:

- Bengkel "Providing Quality Supervision"
- Bengkel "Cracking the Code (A workshop for PhD Students)"
- Bengkel The 2nd Workshop On HPC (Workshop On MPI Programing 2006)
- Bengkel "Providing Quality Postgraduate Supervision"
- Bengkel "Publishing for Postgraduate Students"
- Kursus "Basic Academic Writing"
- Kursus "Communicating in English 1"

Keharmonian Persekitaran Kerja

Untuk meningkatkan keharmonian di tempat kerja, Majlis Bersama Jabatan (MBJ) UPM yang ahlinya terdiri daripada Pengurusan Universiti, Persatuan Pegawai Akademik, Persatuan Pentadbir, dan Kesatuan Kakitangan Am (KEPERTAMA) telah bermesyuarat sebanyak 2 kali, sepanjang tahun 2006. Majlis Bersama Jabatan ini merupakan forum utama untuk membincangkan isu dan perkara berbangkit berkaitan dengan perkhidmatan dan kebajikan staf.



Pengiktirafan Kecemerlangan dan Penghargaan

Anugerah Fellowship Naib Canselor dihadiahkan kepada staf sebagai pengiktirafan istimewa terhadap sumbangan cemerlang, kepakaran, dan kemahiran dalam sesuatu bidang. Penerima anugerah Fellowship Naib Canselor diperuntukkan geran bernilai RM10,000 untuk memberi peluang kepada penerima berkenaan membuat lawatan ke universiti terkemuka atau menghadiri seminar untuk mendapatkan pendedahan, pengalaman dan pengetahuan yang boleh digunakan untuk meningkatkan lagi prestasi penerima.

Seramai 8 orang pegawai telah memenangi Anugerah Fellowship Naib Canselor kerana sumbangan cemerlang mereka dalam kategori (i) cemerlang dalam pengajaran, (ii) cemerlang dalam penyelidikan, (iii) cemerlang dalam perkhidmatan professional, dan (iv) cemerlang dalam perkhidmatan sokongan.

Senarai pemenang Anugerah Fellowship Naib Canselor 2006 adalah seperti dalam **Jadual 20**.

Anugerah Kategori Cemerlang dalam Pengajaran

Bil.	Penerima	Fakulti/Institut
1.	Profesor Madya Dr. Zaidan bin Abdul Wahab	Fakulti Sains
2.	Profesor Madya Dr. Che Teh Fatimah Nachiar Iskandar	Fakulti Perubatan Veterinar

Anugerah Kategori Cemerlang dalam Penyelidikan

Bil.	Penerima	Fakulti/Institut
1.	Profesor Dr. Ahmad Zubaidi bin Baharumshah	Fakulti Ekonomi dan Pengurusan
2.	Profesor Dr. Mohd Zobir bin Hussein	Fakulti Sains

Anugerah Kategori Cemerlang dalam Perkhidmatan Profesional

Bil.	Penerima	Fakulti/Institut
1.	Profesor Madya Dr. Mohd. Kamil bin Yusoff	Fakulti Pengajian Alam Sekitar
2.	Encik Mohd. Faizal bin Daud	Pusat Interim Komputer

Anugerah Kategori Cemerlang dalam Perkhidmatan Sokongan

Bil.	Penerima	Fakulti/Institut
1.	Tuan Haji Ismail bin Nordin	Fakulti Pengajian Alam Sekitar
2.	Encik Mohd. Zolhanafiah bin Mohamed	Fakulti Ekonomi dan Pengurusan

Yang Berbahagia Dato' Naib Canselor telah menyampaikan Anugerah Perkhidmatan Cemerlang 2006 kepada 402 orang pegawai Universiti yang layak.

Anugerah Setia Putra 2006 pula telah disampaikan kepada 129 orang staf yang telah genap berkhidmat selama 20 tahun. Seramai 117 orang staf yang telah bersara menerima Anugerah Jasa Putra 2006. Anugerah Jasamu Dikenang 2006 pula diberikan kepada 8 orang waris staf yang telah meninggal dunia.



Harmonious Working Environment

To increase the harmony at the work place, UPM's Inter Department Council (MBJ) whose Members comprise of the University's Management, Academic Officers' Association, the Administrators' Association, and General Workers Association (KEPERTAMA) jointly sat through two meetings in 2006. The MBJ is the main forum for discussing issues and matters that arise concerning staff welfare and services.

Recognition of Achievements and Tributes

The Vice Chancellor's Fellowship Award is awarded to staff to specially recognize their excellent contributions, expertise and skills in particular fields. The recipient of this Award is given a grant valued at RM10,000 to create an opportunity for the recipient to visit leading universities or to attend seminars that can further upgrade his or her exposure, experience and knowledge.

A total of 8 officers has won the Vice Chancellor's Fellowship Award in view of their excellent contributions in such categories as: (i) teaching excellence, (ii) research excellence, (iii) professional service excellence, and (iv) excellence in service support.

The Vice Chancellor's Fellowship Award Recipients' List for 2006 is as shown below in the **Table 20**.

Yang Berbahagia Dato' Vice Chancellor handed over the 2006 Awards for Service Excellence to 402 University officers who were eligible for it.

The 2006 Setia Putra Award was handed over to 129 staff who had served UPM for 20 years. While 117 retired staff received the 2006 Jasa Putra Award. The 2006 Jasamu Dikenang Award was given to 8 heirs of staff who were deceased.

Award for Excellence in Teaching Category

No.	Recipients	Faculty/Institute
1.	Associate Prof. Dr. Zaidan bin Abdul Wahab	Faculty of Science
2.	Associate Prof. Dr. Che Teh Fatimah Nachiar Iskandar	Faculty of Veterinary Medicine

Award for Excellence in Research Category

No.	Recipients	Faculty/Institute
1.	Profesor Dr. Ahmad Zubaidi bin Baharumshah	Faculty of Economics and Management
2.	Profesor Dr. Mohd Zobir bin Hussein	Faculty of Science

Award for Excellence in Professional Services Category

No.	Recipients	Faculty/Institute
1.	Associate Prof. Dr. Mohd. Kamil bin Yusoff	Faculty of Environmental Studies
2.	Mr. Mohd. Faizal bin Daud	Interim Computer Centre

Award for Excellence in Service Support Category

No.	Recipients	Faculty/Institute
1.	Tuan Haji Ismail bin Nordin	Faculty of Environmental Studies
2.	Mr. Mohd. Zolhanafiah bin Mohamed	Faculty of Economics and Management

Table 20: The Recipients of The 2006 Vice Chancellor's Award





Perkhidmatan Profesional Professional Services

Universiti Putra Malaysia (UPM) telah menggariskan matlamat kelapan dalam Pelan Strategi 2001-2020, iaitu 'menjadikan UPM sebagai pusat perkhidmatan dan pendidikan lanjutan yang cemerlang'. Untuk itu, UPM telah merangka usaha yang berterusan sepanjang tahun 2006 ke arah pencapaian matlamat tersebut. Melalui aktiviti Pusat Pengembangan, Keusahawanan dan Pemajuan Profesional (APEEC) dan Unit Latihan, Pejabat Pendaftar, usaha meningkatkan kepakaran dan profesionalisme dalam kalangan warga kerja UPM dilakukan secara lebih tersusun. Selain itu, APEEC juga menyediakan peluang peningkatan ilmu serta kemahiran yang berterusan kepada masyarakat luar kampus yang terdiri daripada individu serta agensi yang berminat.

Kursus dan Latihan

Unit Pemajuan Profesional dan Pendidikan Sepanjang Hayat (dahulu dikenali sebagai PACE) merupakan salah satu unit di bawah Pusat Pengembangan, Keusahawanan dan Pemajuan Profesional. Sepanjang tempoh tahun 2006, sebanyak tujuh belas (17) kursus telah berjaya dianjurkan oleh Unit ini. Perincian setiap kursus adalah seperti yang disenaraikan dalam **Jadual 21**.



“
Sepanjang tahun 2006,
penyelidik UPM terus
memenangi anugerah
dan pengiktirafan dalam
pameran di peringkat
kebangsaan mahupun
antarabangsa.”

Tarikh	Nama Kursus
24 - 25 Januari 2006	<i>Digital Video Editing and Streaming</i> Kursus ini mendedahkan para peserta kepada teknologi video digital dan teknologi streaming serta cara menghasilkan video klip untuk kegunaan VCD, DVD, dan streaming.
1 - 2 Mac 2006	<i>Creative and Lateral Thinking in Management in Quest for Excellence</i> Kursus ini adalah untuk meningkatkan dan memantapkan cara pemikiran dalam pengurusan dan cara menjadi seorang yang kreatif dan lateral dalam aspek pemikiran untuk membolehkannya membuat keputusan yang baik.
13 - 14 April 2006	<i>Penulisan Berita dan Rencana</i> Memberi pendedahan tentang jenis penulisan, penghasilan tulisan, juga visual dan teknologi dalam penulisan.
18 - 19 April 2006	<i>A Course on Increasing Productivity and Effectiveness Via Systematic Managerial Analysis (SMA)</i> Kursus ini diadakan untuk membantu para peserta membuat keputusan, terutama keputusan yang kritikal dalam menentukan kejayaan organisasi tempat bekerja. Selain itu, kursus ini juga direka untuk membantu para peserta mengetahui cara dan kaedah yang sebenar dalam membuat keputusan dan menyelesaikan masalah.
22 - 26 Mei 2006	<i>Lukisan Teknikal bagi Juruteknik Jabatan Alam Sekitar (Gred J17 - 26), Institut Alam Sekitar Malaysia (EIMAS)</i> Kursus ini bertujuan memberi pendedahan kepada para peserta tentang asas dan pemahaman lukisan teknikal. Pada akhir kursus, peserta akan mendapat kefahaman tentang membaca lukisan pembinaan yang asas dan menghasilkan lukisan teknik untuk tujuan komunikasi dalam kerjanya sebagai juruteknik.
23 - 25 Mei 2006	<i>Komputer MPKJ</i> Kursus ini bertujuan untuk meningkatkan kemahiran dan pengetahuan peserta dari Majlis Perbandaran Kajang tentang kemahiran asas komputer dalam Microsoft Office.
14 - 15 Jun 2006	<i>Postgraduate Supervision</i> Kursus ini diadakan dengan tujuan untuk memberi pendedahan dan membangunkan kemahiran kompetensi profesional serta kemahiran dalam menyelia pelajar pascasiswazah.
25 Jun -21 Oktober 2006 (4 bulan)	<i>Program Sijil Pengurusan & Penyeliaan</i> Program ini telah direka untuk memberi pendedahan kepada para peserta berkaitan bidang pengurusan pertanian (teori dan amalan) di samping bidang pengurusan dan keselamatan dan kesihatan pekerjaan.
31 Julai - 3 Ogos 2006	<i>Kursus War Game Pegawai Badan Pencegah</i> Kursus ini bertujuan untuk meningkatkan semangat berpasukan, menggalakkan komitmen dan sifat bertanggungjawab, meningkatkan motivasi dan juga mengenali kekuatan dan kelemahan diri.
4 Ogos - 21 September	<i>Kursus Akademik Pegawai Badan Pencegah Rasuah Malaysia (BPR)</i> Kursus ini bertujuan untuk meningkatkan kemahiran dan pengetahuan peserta tentang bidang pengurusan, pentadbiran, siasatan, komunikasi, dan lain-lain.
18 Sept - 23 Nov 2006	<i>Communication Russian for Malaysia Tourist Guides Level 1 (Basic)</i> Kursus ini bertujuan memberi pendedahan berkaitan kemahiran asas dalam aspek penulisan dan kemahiran bahasa Rusia.
2 Oktober - 19 Oktober	<i>Program Attachment antara UPM dan Universitas Sumatera Utara</i> Program ini diadakan untuk memberi pendedahan dan berkongsi maklumat serta pendapat berkaitan sistem pembelajaran antara UPM dan Universitas Sumatera Utara.
3 - 4 Oktober 2006	<i>Kursus Pengurusan Goal Setting</i> Kursus ini diadakan untuk meningkatkan pengetahuan dan kemahiran pegawai TLDM berorientasikan pengurusan matlamat.
6 - 26 November 2006	<i>Kursus Attachment antara UPM dan Universitas Sumatera Utara</i> Program ini diadakan untuk memberi pendedahan dan berkongsi maklumat serta pendapat berkaitan sistem pembelajaran antara UPM dan Universitas Sumatera Utara.
16 - 17 November 2006	<i>Kursus Creativity and Innovation</i> Kursus ini bertujuan meningkatkan pengetahuan dan kemahiran pegawai TLDM dalam membuat keputusan serta kreatif dalam pemikiran.
19 - 24 November 2006	<i>Kursus Asas Untuk Pembangunan Masyarakat (SDA) Wanita, FELDA</i> Objektif kursus ini adalah untuk membekalkan agen pembangunan masyarakat dengan pengetahuan dan kemahiran asas yang berkaitan dengan pembangunan manusia, keluarga dan komuniti (masyarakat) agar mereka dapat memberikan sumbangan ke arah meningkatkan kualiti kehidupan manusia dalam keluarga, komuniti dan masyarakat, khususnya komuniti peneroka FELDA.
27 - 29 November 2006	<i>Bengkel Asas Komputer</i> Kursus ini dikendalikan untuk meningkatkan kemahiran dan pengetahuan peserta dari Majlis Perbandaran Kajang tentang kemahiran asas komputer dalam Microsoft Office
4 - 7 Disember 2006	<i>Kursus Komputer Fikrah Teknologi Sdn. Bhd.</i> Kursus ini diadakan untuk meningkatkan kemahiran dan pengetahuan peserta dari Fikrah Teknologi tentang kemahiran asas perisian komputer.

University Putra Malaysia (UPM) has outlined the 8th Objective of its 2001-2010 Strategic Plan, which is 'to ensure that UPM becomes a Centre for Excellence in Services and Advanced Learning'. To achieve this objective, UPM developed various on-going efforts throughout 2006. Through the activities of The Centre for Extension, Entrepreneurship and Professional Advancement (APEEC) as well as the Training Unit of the Registrar's Office, the efforts to improve the skills and professionalism among UPM workers has been done more systematically. Besides these, APEEC also provides opportunities for knowledge and on-going skills enhancement to the community outside its campus which includes interested individuals and Agencies.

Courses and Trainings

The Professional Advancement and Lifelong Education Unit (formerly known as PACE) is one of the units under The Centre for Extension, Entrepreneurship, and Professional Advancement (APEEC). Throughout 2006, a total of seventeen (17) Courses were successfully organized by this Unit. The detailed breakdown of these Courses are as listed in **Table 21**.

Date	Name of Courses
24 - 25 January 2006	<i>Digital Video Editing and Streaming</i> This Course exposed participants to digital video and streaming technology and the techniques of producing video clips for use in VCDs, DVDs and streaming.
1 - 2 March 2006	<i>Creative and Lateral Thinking in Management in Quest for Excellence</i> This Course was aimed at significantly enhancing the thinking at the management level and how to become more creative and lateral minded when making important decisions.
13 - 14 April 2006	<i>Writing of News and Articles</i> Exposes participants to the types of writing, how to get started, and the usage of visuals and technology in writing.
18 - 19 April 2006	<i>A Course on Increasing Productivity and Effectiveness Via Systematic Managerial Analysis (SMA)</i> This Course focused on helping participants make better decisions, especially critical decisions that ensure the organization's success at the work place. Besides this, the Course helps participants discover the right methods and techniques in making decisions and solving problems.
22 - 26 May 2006	<i>Technical Drawing for Technicians from the Environmental Department (Grade J17-26), Environmental Institute of Malaysia (EIMAS)</i> This Course exposes participants to the foundations and understanding of technical drawings. At the end of this Course, participants will know how to read basic building plans and create technical drawings for the purpose of communication in their careers as technicians.
23 - 25 May 2006	<i>MPKJ Computers</i> This Course for participants' from Kajang's City Council was meant to upgrade their skills and knowledge as well as their knowhow about the basics of computers using Microsoft Office.
14 - 15 June 2006	<i>Postgraduate Supervision</i> This Course was conducted to provide exposure and develop postgraduate students' professional competency skills as well as their monitoring abilities.
25 Jun -21 October 2006 (4 months)	<i>Certificate of Management and Monitoring Programme</i> This Programme was designed to provide participants' exposure in the field of plantation management (theory and practical) including the field of management and workers' safety and health.
31 July - 3 August 2006	<i>War Games Course for Prevention Officers</i> This Course is aimed at boosting team spirit, commitment and the sense of responsibility, enhance motivation and self awareness about one's strengths and weaknesses.
4 August - 21 Sept 2006	<i>Academic Course for The Malaysian Corruption Prevention Body (BPR)</i> This Course enhances participants' skills and knowledge about management, administration, investigation, communication etc.
18 Sept - 23 Nov 2006	<i>Communication in Russian for Malaysia Tourist Guides Level 1 (Basic)</i> This Course provides exposure to the basic skills in writing and speaking the Russian language.
2 October - 19 October	<i>Attachment Programme between UPM and Northern Sumatera University</i> This Programme was held to provide exposure and to exchange information and opinions concerning the education system of UPM and Northern Sumatera University.
3 - 4 October 2006 2006 (Batch 1)	<i>Management Course on Goal Setting</i> This Course was held to further enhance the skills and knowledge of TLDM Officers, oriented towards information management.
6 - 26 November 2006 (Batch 2)	<i>Attachment Programme between UPM and Northern Sumatera University</i> This previously held Programme was repeated to continue the exposure and to exchange information and opinions concerning the education system of UPM and Northern Sumatera University.
16 - 17 November 2006	<i>Creativity and Innovation Course</i> This Course was aimed at upgrading the decision making and creative thinking skills and knowledge of TLDM Officers.
19 - 24 November 2006	<i>Basic Course on Developing The Women Community (SDA), of FELDA</i> The objective of this Course was to equip the community development agents with the basic skills and knowledge needed to enhance the development of individuals, families and the community (society) so that they can contribute towards raising the standards of living among families, the community and society, especially among the FELDA settlers.
27 - 29 November 2006	<i>Basic Computer Clinic</i> This Course was conducted for participants' from the Kajang City Council to help them improve their skills, knowledge and knowhow about Microsoft Office and the basics of using computers.
4 - 7 December 2006	<i>Course of Fikrah Computer Technology Sdn Bhd</i> This Course was held to boost the skills and knowledge of participants from Fikrah Technology about basic computer software skills.

Table 21: List of Courses and Training

Khidmat Perundingan

UPM juga giat menjalankan aktiviti perundingan bersama sektor awam dan swasta, sama ada di peringkat nasional atau antarabangsa. Perkhidmatan ini amat penting untuk mempromosikan segala kepakaran yang dimiliki oleh Universiti ini untuk kebaikan dan manfaat kepada seluruh masyarakat. UPM melalui unit perundingannya, iaitu Pusat Pembangunan Perniagaan (UBC) telah menyelaraskan sebanyak 35 projek perundingan sepanjang tahun 2006. Khidmat perundingan yang dijalankan ini melibatkan nilai projek berjumlah RM 6,107,832.60. Kebanyakan projek perundingan tersebut masih dijalankan untuk tahun 2006. Senarai projek adalah seperti yang berikut:

Bil.	Nama Projek	Jabatan Kerajaan / Agensi Swasta	Ketua Projek	Pusat Tanggung jawab	Tempoh	Kos Projek
1.	Production of Medium and Long Chain Triacylglycerols (MLCT) as a Special Cooking Therapy and Other Edible Oil Projects	Golden Hope Research Sdn Bhd	Prof. Madya Dr. Lai Oi Ming	Fakulti Bioteknologi dan Biomolekul Sains	Januari 2006 -2008	965,580.00
2.	Production of Diacylglycerols (DAG) for Various Edible Oil Products	Golden Hope Research Sdn Bhd	Prof. Madya Dr. Lai Oi Ming	Fakulti Bioteknologi dan Biomolekul Sains	Januari 2006 -2008	900,000.00
3.	Projek Pembangunan Coastal Resources Risk Index (CORRI) Untuk Menilai Kesan Pencemaran Air Terhadap Produktiviti Sumber Asli Pinggir Pantai	NAHRIM	Prof.Dr. Zelina Zaiton bt Ibrahim	Fakulti Pengajian Alam Sekitar	November 2005 - Disember 2006	127,650.00
4.	i) Fauna ii) Socio Economic and Landuse iii) Ecotourism Studies for the Macro Environmental Assessment (MEA) for Perak Forest Management Unit	Alam Sekitar Malaysia	Prof. Madya Dr. Mohamed Zakaria Hussin, Dr. Zahid Emby, Dr. Ahmad Shuib	Fakulti Perhutanan	8 bulan	121,059.00
5.	Kerja Perkhidmatan berhubung Dengan Kursus-kursus Advanced Diploma Politeknik Kementerian Pengajian Tinggi	Kementerian Pengajian Tinggi	Prof. Madya Ir. Megat Johari Megat Mohd Noor	Fakulti Kejuruteraan	Oktober 2006 - November 2006	47,000.00
6.	Training Course on Forecasting And Modelling in The Wood-Based Industry	Malaysian Timber Industry Board	Prof. Madya Dr. Awang Noor	Fakulti Perhutanan	17 Julai 2006 - 23 Ogos 2006	16,999.40
7.	Kajian Keberkesanan Skim Rondaan Sukarela (SRS) dan Pola Penyertaan Masyarakat; Kajian Perbandingan di Antara Kawasan Bandar dan Luar Bandar	Jabatan Perpaduan Negara dan Integrasi Nasional	Prof. Madya Dr. Bahaman Abu Samah	Institut Interim Sains	Disember 2006 - Mei 2007	49,962.00
8.	Economic Valuation on the National Park in Kelantan	Kerajaan Negeri Kelantan	Prof. Dr. Mohd Shahwahid	Institut Biokomposit	9 bulan	172,500.00
9.	Low Impact Logging and Effect to the Leave Land at Lojing, Gua Musang Kelantan	Telemont Sdn Bhd	Prof. Dr. Mohd Shahwahid	Institut Biokomposit	Julai 2006 - Ogos 2007	18,181.50
10.	Pembentukan Pusat Interpretasi dan Pelawat di Tapak Projek Pemuliharaan Tuntung di Bota, Perak.	Learning Forest	Dr. Azlizam b. Aziz	Fakulti Perhutanan	November 2006 - April 2008	73,300.00
11.	Intelligent Broadband Polarization Mode Dispersion Management System	TM Research & Development Sdn Bhd	Prof. Madya Dr. Adzir Mahdi	Fakulti Kejuruteraan	November 2006 - Oktober 2008	24,000.00
12.	Perundingan Berkaitan Kerja HPLC& GC	KHIAZH Sdn Bhd	Dr. Mohd Yunus Abd Shukur	Fakulti Bioteknologi dan Sains Biomolekul	Disember 2006 - Jun 2007	10,000.00

Consultancy Service

UPM is also active in providing consultancy activities to the public and private sectors, either at the national or international level. This service is crucial in promoting the comprehensive skills available at the University for the benefit and development of the entire community. UPM through its consultancy unit, i.e. its Business Development Centre had facilitated 35 consultancy projects throughout 2006. The value of the projects requiring its consultancy services totaled RM 6,107,832.60. Most of the projects were still in progress in 2006. The list of those projects are as follows:

No.	Name of Project	Government Department/ Private Agency	Project Leader	Responsibility Centres	Duration	Cost of Project (RM)
1.	Production of Medium and Long Chain Triacylglycerols (MLCT) as a Special Cooking Therapy and Other Edible Oil Projects	Golden Hope Research Sdn Bhd	Assoc. Prof. Dr. Lai Oi Ming	Faculty of Biotechnology and Biomolecular Science	January 2006 -2008	965,580.00
2.	Production of Diacylglycerols (DAG) for Various Edible Oil Products	Golden Hope Research Sdn Bhd	Assoc. Prof. Dr. Lai Oi Ming	Faculty of Biotechnology and Biomolecular Science	January 2006 -2008	900,000.00
3.	Coastal Resources Risk Index (CORRI) Development Project To Gauge The Effect of Water Pollution on Coastal Areas Natural Resources Productivity	NAHRIM	Prof.Dr. Zelina Zaiton bt Ibrahim	Faculty of Environmental Studies	November 2005 - December 2006	127,650.00
4.	i) Fauna ii) Socio Economic and Landuse iii) Ecotourism Studies for the Macro Environmental Assessment (MEA) for Perak Forest Management Unit	Environment of Malaysia	Assoc. Prof. Dr. Mohamed Zakaria Hussin, Dr. Zahid Emby, Dr. Ahmad Shuib	Faculty of Forestry	8 months	121,059.00
5.	Services provided in relation to the Higher Education Ministry's Advanced Polytechnic Diploma Courses	Higher Education Ministry	Assoc. Prof. Ir. Megat Johari Megat Mohd Noor	Faculty of Engineering	October 2006 - November 2006	47,000.00
6.	Training Course on Forecasting and Modelling in The Wood-Based Industry	Malaysian Timber Industry Board	Assoc. Prof. Dr. Awang Noor	Faculty of Forestry	17 July 2006 - 23 August	16,999.40
7.	Study on the Effectiveness of the Voluntary Patrol Scheme (SRS) and Polarised Community Participation; Survey on Differences Between Urban and Rural Areas.	National Unity and Integration Dept.	Assoc. Prof. Dr. Bahaman Abu Samah	Interim Social Science Institute	December 2006 - May 2007	49,962.00
8.	Economic Valuation on the National Park in Kelantan	State Government of Kelantan	Prof. Dr. Mohd Shahwahid	Bioscience Institute	9 months	172,500.00
9.	Low Impact Logging and Effect to the Leave Land at Lojing, Gua Musang Kelantan	Telemont Sdn Bhd	Prof. Dr. Mohd Shahwahid	Bioscience Institute	July 2006 - August 2007	18,181.50
10.	Formation of the Centre for Interpretation and Visitors at the Tortoise Restoration Project Site of Bota, in Perak.	Learning Forest	Dr. Azlizam b. Aziz	Faculty of Forestry	November 2006 - April 2008	73,300.00
11.	Intelligent Broadband Polarization Made Dispersion Management System	TM Research & Development Sdn Bhd	Assoc. Prof. Dr. Adzir Mahdi	Faculty of Engineering	November 2006 - October 2008	24,000.00
12.	Consultancy regarding Work on the HPLC & GC	KHIAZH Sdn Bhd	Dr. Mohd Yunus Abd Shukur	Faculty of Biotechnology and Biomolecular Sciences	December 2006 - June 2007	10,000.00

Table 22: List of UPM's Consultancy Projects in 2006

Bil.	Nama Projek	Jabatan Kerajaan / Agensi Swasta	Ketua Projek	Pusat Tanggung jawab	Tempoh	Kos Projek
13.	Environmental Impact Assessment of the Proposed New Road from Kota Bharu to Kuala Krai, Kelantan Darul Naim	Padangmaju Bina Sdn. Bhd	Prof. Madya Dr. Mohd Kamil Yusuff	Fakulti Pengajian Alam Sekitar	2 bulan	130,000.00
14.	Resources Indentification Evaluation of Hight Value Conservation Forest for Asia Prima Resouece Mentakab Pahang	Asia Prima Ref. Sdn Bhd	Dr. Azlizam b. Aziz	Fakulti Perhutanan	Mei 2006 - Disember	37,000.00
15.	Study of Efficacy and Persistence of Paraquat in Rice Field	MPOB	Prof. Dr. Dzolkhifli b. Omar	Fakulti Pertanian	Mei 2006 - Tamat	76,875.00
16.	Study of Efficacy and Persistence of Paraquat in Fruit Tree	MPOB	Prof. Dr. Dzolkhifli b. Omar	Fakulti Pertanian	Mei 2006 - Disember	76,875.00
17.	Study of Application Technique, Efficacy and Spray Operator Contamination of Paraquat in Oil Palm Plantation	MPOB	Prof. Dr. Dzolkhifli b. Omar	Fakulti Pertanian	April 2006 - Mac 2007	129,180.00
18.	Social Life Conditions of Paraquat Spray Operators in Malaysia	MPOB	Dr. Ahmad Hariza	Fakulti Ekologi Manusia	Februari 2006 - Februari 2007	116,645.00
19.	Environmental Feasibility Study and Detailed Environmental Impact Assessment (DEIA) for the Proposed Land Reclamation for Integrated Resort Dev. In Tumpat Kelantan	Asia Pacific Environmental Consultants Sdn Bhd	Dr. Zelina Zaiton Ibrahim	Fakulti Pengajian Alam Sekitar	April 2006 - Februari 2007	19,900.00
20.	Penyediaan Denai Interpretasi Hutan Lipur Negeri Kedah	Jabatan Perhutanan Negeri Kedah	Dr. Azlizam b. Aziz	Fakulti Perhutanan	Mei 2006 - Disember 2007	250,000.00
21.	Rancangan Pengurusan Eko Pelancongan Wilayah	Stillgreen Recreation Sdn Bhd	Dr. Azlizam b. Aziz	Fakulti Perhutanan	Februari 2006 - Februari 2007	20,000.00
22.	Vegetation Management Under Transmission Lines at Tenaga Nasional Berhad (TNB) Area	Tenaga Nasional Berhad	Dr. Azmy Hj. Mohamed	Fakulti Perhutanan	Ogos 2006 - Oktober 2007	300,000.00
23.	Kerja Perundingan Pengurusan Tasik dan Wetland- Perbadanan Putrajaya	Perbadanan Putrajaya	Dr. Zelina Zaiton bt Ibrahim	Fakulti Pengajian Alam Sekitar	April 2006 - Mac 2008	19,900.00
24.	Proposal to Establish and Commission Organic Acids Detection and (Sunzen)	Sunzen Coporation Sdn Bhd	Dr. Goh Yong Meng	Fakulti Perubatan Veterinar	Mac 2006 - Julai 2006	4,589.75
25.	Disease Surveilance and Bird Population Control BASF	Petronas Chemicals Sdn Bhd	Dr. Jalila Abu	Fakulti Perubatan Veterinar	April 2006 - September 2006	4,542.50
26.	Penasihat Unit Berkuda DBKL	DBKL	Prof. Madya Dr. Bashir Ahmad	Fakulti Perubatan Veterinar	Januari 2005 - Disember 2006	48,000.00

No.	Name of Project	Government Department/ Private Agency	Project Leader	Responsibility Centres	Duration	Cost of Project (RM)
13.	Environmental Impact Assessment of the Proposed New Road from Kota Bharu to Kuala Krai, Kelantan Darul Naim	Padangmaju Bina Sdn. Bhd	Assoc. Prof. Dr. Mohd Kamil Yusuff	Faculty of Environmental Studies	Studies 2 Months	310,000.00
14.	Resources Indentification Evaluation of Hight Value Conservation Forest for Asia Prima Resouece Mentakab Pahang	Asia Prima Ref. Sdn Bhd	Dr. Azlizam b. Aziz	Faculty of Forestry	May 2006 - December 2006	37,000.00
15.	Study of Efficacy and Persistence of Paraquat in Rice Field	MPOB	Prof. Dr. Dzolkhifii b. Omar	Faculty of Agriculture	May 2006 - end	76,875.00
16.	Study of Efficacy and Persistence of Paraquat in Fruit Tree	MPOB	Prof. Dr. Dzolkhifii b. Omar	Faculty of Agriculture	May 2006 - December	76,875.00
17.	Study of Application Technique, Efficacy and Spray Operator Contamination of Paraquat in Oil Palm Plantation	MPOB	Prof. Dr. Dzolkhifii b. Omar	Faculty of Agriculture	April 2006 - March 2007	129,180.00
18.	Social Life Conditions of Paraquat Spray Operators in Malaysia	MPOB	Dr. Ahmad Hariza	Faculty of Human Ecology	February 2006 - February 2007	116,645.00
19.	Environmental Feasibility Study and Detailed Environmental Impact Assessment (DEIA) for the Proposed Land Reclamation for Integrated Resort Dev. In Tumpat Kelantan	Asia Pacific Environmental Consultants Sdn Bhd	Dr. Zelina Zaiton Ibrahim	Faculty of Environmental Studies	April 2006 - February 2007	19,900.00
20.	Preparation of Spoor (Denai) Interpretation of Hutan Lipur in Kedah Kedah's	Forestry Department	Dr. Azlizam b. Aziz	Faculty of Forestry	May 2006 - December 2007	250,000.00
21.	Plans for Managing Regional Eco-tourism	Stillgreen Recreation Sdn Bhd	Dr. Azlizam b. Aziz	Faculty of Forestry	February 2006 - February 2007	20,000.00
22.	Vegetation Management Under Transmission Lines at Tenaga Nasional Berhad (TNB) Area	Tenaga Nasional Behad	Dr. Azmy Hj. Mohamed	Faculty of Forestry	August 2006 - October 2007	300,000.00
23.	Consultancy on Lake and Wetlands Management - Putrajaya City Council	Perbadanan Putrajaya	Dr. Zelina Zaiton bt Ibrahim	Faculty of Environmental Studies	April 2006 - March 2008	19,900.00
24.	Proposal to Establish and Commission Organic Acids Detection and (Sunzen)	Sunzen Coporation Sdn Bhd	Dr. Goh Yong Meng	Faculty of Veterinary Medicine	March 2006 - July 2006	4,589.75
25.	Disease Surveillance and Bird Population Control BASF	Petronas Chemicals Sdn Bhd	Dr. Jalila Abu	Faculty of Veterinary Medicine	April 2006 - September 2006	4,542.50
26.	DBKL Horse Squad Advisors Unit DBKL	DBKL	Assoc. Prof. Dr. Bashir Ahmad	Faculty of Veterinary Medicine	January 2005 - December 2006	48,000.00

Table 22: List of UPM's Consultancy Projects in 2006

Bil.	Nama Projek	Jabatan Kerajaan / Agensi Swasta	Ketua Projek	Pusat Tanggung jawab	Tempoh	Kos Projek
27.	Memberi Perkhidmatan Perundingan dalam Bidang Sumber Manusia dan Undang-undang	Elektrisola (M) Sdn Bhd	Pn. Zoharah Omar	Fakulti Pengajian Pendidikan	April 2006 - Mac 2008	48,000.00
28.	Penyediaan Penilaian Kesan Ke atas Alam Sekitar (EIA) Peringkat Makro Kelantan	Jabatan Perhutanan Kelantan	Prof. Dr. Mohd Shahwahid	Akademi Hutan Hujan	Jun 2006 - Februari 2007	315,000.00
29.	Environmental Impact Assessment on The Proposed Forest Operation in Pahang	Jabatan Perhutanan Negeri Pahang	Prof. Dr. Mohd Shahwahid	Akademi Hutan Hujan	April 2006 - November 2006	350,000.00
30.	Managing The Maintenance of Agricultural Equipment	Muscat, Oman	Prof. Madya Dr. Abdul Rashid Mohamed Shariff	Fakulti Kejuruteraan	Februari 2006 - Ogos 2006	53,562.20
31.	Kajian Semula Dasar Warga Tua Negara dan Pelan Tindakan Warga Tua Negara	Kementerian Pembangunan Wanita, Keluarga dan Masyarakat	Prof. Madya Dr. Tg. Aizan Abd. Hamid	Institut Gerontologi	November 2006 - April 2008	942,931.25
32.	Field Flow Measurement Around a Propeller Fas	OLY Research & Development Centre Sdn Bhd	Dr. Ahmad Samsuri Mokhtar	Fakulti Kejuruteraan	Mei 2006 - Januari 2007	55,000.00
33.	Study on the Eco-Tourism Potential in the South-East Pahang Peat Swamp Forest Project	UNDP - GEF	Dr. Azlizam Aziz	Fakulti Perhutanan	Julai 2006 - Disember 2006	49,900.00
34.	Environmental Impact Ass. on The Proposed Forest Oper. in Terengganu	Jabatan Perhutanan Terengganu	Prof. Dr. Mohd Shahwahid	Institut Biokomposit	8 bulan	350,000.00
35.	Forest Management Plan for Mangrove Forest Kedah Darul Aman 1 & 2	Jabatan Perhutanan Kedah	Prof. Madya Dr. Awang Noor Abd Shani	Fakulti Perhutanan	1999 - Ogos 2006	148,700.00
Jumlah						6,072,832.60



No.	Name of Project	Government Department/ Private Agency	Project Leader	Responsibility Centres	Duration	Cost of Project (RM)
27.	Give consultancy services in Human Resource and Law	Elektrisola (M) Sdn Bhd	Pn. Zoharah Omar	Faculty of Educational Studies	April 2006 - March 2008	48,000.00
28.	Preparation of Environment Assessment (EIA) at the Macro Level in Kelantan	Forestry Department	Associate Prof. Mohd Shahwahid	Rainforest Academy	June 2006 - February 2007	350,000.00
29.	Environmental Impact Assessment on The Proposed Forest Operation in Pahang	Pahang's Forestry Department	Associate Prof. Mohd Shahwahid	Rainforest Academy	April 2006 - November 2006	350,000.00
30.	Managing The Maintenance of Agricultural Equipment	Muscat, Oman	Associate Prof. Dr. Abdul Rashid Mohamed Shariff	Faculty of Engineering	Februari 2006 - Ogos 2006	53,562.20
31.	Review of the National Policy and Action Plan concerning Senior Citizens	Ministry of Women, Family and Community Development Assoc.	Associate Prof. Dr. Ta. Aizan Hamid	Gerontology Institute	November 2006 - April 2008	942,931.25
32.	Field Flow Measurement Around a Propeller Fas	OLY Research & Development Centre Sdn Bhd	Dr. Ahmad Samsuri Mokhtar	Faculty of Engineering	May 2006 - January 2007	55,000.00
33.	Study on the Eco-Tourism Potential in the South-East Pahang Peat Swamp Forest Project	UNDP - GEF	Dr. Aziz Aziz	Faculty of Forestry	July 2006 - December 2006	49,900.00
34.	Environmental Impact Ass. on The Proposed Forest Oper. in Terengganu	Terengganu's Forestry Department	Prof. Dr. Mohd Shahwahid	Biocomposite Institute	8 months	350,000.00
35.	Forest Management Plan for Mangrove Forest Kedah Darul Aman 1 & 2	Kedah's Forestry Department	Associate Prof. Dr. Awang Noor Abd Ghani	Faculty of Forestry	1999 - August 2006	148,700.00
Total						6,072,832.60

Table 2: List of UPM's Consultancy Projects in 2006





Perhubungan Korporat dan Antarabangsa

Corporate and International Linkages

Jalinan Akademia-Industri

Majlis Perundingan Akademia Industri (AICC) dalam mesyuarat pertamanya pada 16 Mei 2005 telah mengesyorkan agar Institusi Pengajian Tinggi (IPT) memperbanyak usaha mengadakan hubungan Akademia-Industri dan rangkaian antara IPT dengan sektor industri. Tujuan kerjasama ini adalah untuk menggubal dan mengkaji semula kurikulum, mengundang sektor industri memberi ceramah di IPT, dan mengadakan projek R&D secara bersama dan berkongsi kemudahan R&D. Sehubungan itu, Mesyuarat Pengurusan UPM yang ke-192 telah meminta Pusat Pembangunan Akademik (CADe) mencadangkan penubuhan Jawatankuasa Perundingan Akademia-Industri di peringkat Universiti untuk merancang dan meningkatkan aktiviti dan keberkesanan jalinan dengan industri.



Direktori industri dan pangkalan data akademik industri pula akan memuatkan maklumat tentang industri yang telah dan sedang bekerjasama dengan UPM yang boleh dijadikan sebagai rujukan untuk meningkatkan lagi keberkesanan jalinan akademia-industri.



Antara Jawatankuasa yang ditubuhkan ialah:

- Jawatankuasa Perundingan Akademia-Industri Universiti
- Jawatankuasa Pelaksana Jalinan Akademia-Industri Peringkat Universiti
- Jawatankuasa Pelaksana Jalinan Akademia-Industri Peringkat Fakulti

Sebagai usaha untuk melaksanakan syor tersebut, Unit Jalinan Akademia-Industri, Pusat Pembangunan Akademik ditubuhkan pada 1 September 2006. Unit ini berfungsi sebagai penyelaras hubungan akademia-industri untuk menyokong fungsi pengajaran dan pembelajaran yang berkualiti.

Maklumat akademia-industri adalah penting sebagai input untuk penggubalan dasar dan pelaksanaan program akademik bagi menyokong fungsi pengajaran dan pembelajaran UPM yang berkualiti. Sehubungan itu, aktiviti jalinan akademia-industri perlu dijalankan sebagai usaha melahirkan pelajar yang berdaya saing dan mempunyai reputasi yang membawa kepada penjenamaan UPM. Sehingga kini, proses latihan industri dikendalikan oleh pihak fakulti dengan menggunakan prosedur masing-masing. Cabaran yang dihadapi oleh sistem ini ialah menyediakan lebih banyak penempatan latihan industri pelajar UPM di sektor swasta. Justeru, untuk memudahkan proses pemantauan, penyelaras prosedur diguna pakai dalam usaha untuk memantapkan pelaksanaan latihan industri pelajar.

Untuk tujuan penyelaras latihan industri program akademik di UPM, Pusat Pembangunan Akademik (CADE) memainkan peranan untuk mewujudkan Unit Jalinan Akademia-Industri dengan berperanan untuk:

- Membangunkan Portal Jalinan Akademia Industri untuk memperkenalkan program Program Akademik UPM
- Menyelaraskan Prosedur Latihan Industri
- Menyediakan Direktori Hubungan Akademia Industri

Portal tersebut juga boleh digunakan oleh fakulti untuk mendapatkan maklumat dan memantau aktiviti yang dianjurkan bagi menggalakkan kerjasama akademia industri. Segala informasi terkini berkaitan akademia industri akan dimuatkan dalam portal yang boleh diakses pada bila-bila masa dan di mana-mana jua.

Direktori industri dan pangkalan data akademia industri pula akan memuatkan maklumat tentang industri yang telah dan sedang bekerjasama dengan UPM yang boleh dijadikan sebagai rujukan untuk meningkatkan lagi keberkesanan jalinan akademia-industri. Sebagai usaha untuk melicinkan fungsi tersebut, pelbagai aktiviti telah dijalankan, seperti pengumpulan maklumat projek Kementerian Pengajian Tinggi Malaysia- *The University-Industry Partnership-Fostering Strategic Linkages at Institutes of Higher Learning in Malaysia*, menjalankan tinjauan melalui siri lawatan kerja ke IPTA/IPTS untuk berkongsi maklumat pelaksanaan latihan industri di IPTA/IPTS berkenaan, dan melakukan kajian majikan.

Seminar, Persidangan, Syarahan Umum, dan Bengkel

Sebagai taman ilmu, budaya intelektual UPM telah disuburi dengan aktiviti seminar, persidangan, syarahan umum serta bengkel bagi menyebarkan ilmu di kalangan warga UPM. Sepanjang tahun 2006, pakar bertaraf dunia dalam pelbagai diundang untuk berkongsi ilmu, antaranya seperti berikut:

No	Tarikh	Perkara
1.	3 Januari	<i>Preg Test Mini Workshop</i>
2.	5 Januari	Seminar Pemodelan Statistik Dalam Bidang Ekologi Marin dan Statistik Dalam Pengurusan dan Pentadbiran
3.	12 Januari	Syarahan Umum Nobel Laurate Dr. Peter C. Agre
4.	12 Januari	<i>Seminar on Offline Cursive Handwritten Character Recognition : A Fundamental</i>
5.	12 Januari	<i>An Analysis of Edge Detection Using Two Derivatives Principle</i>
6.	18 Januari	Seminar Keselamatan dan Kesihatan Pekerjaan
7.	19 Januari	<i>Web Usability Testing and Information Architecture</i>
8.	10 Februari	Half Day Seminar with: Prof. Dr. Luise-Charlotte Kappe Universitat Freiburg, Germany
9.	11 – 12 Februari	Bengkel PHP
10.	13 – 17 Februari	<i>The Midas Touch Freeze the Moment</i>
11.	23 Februari	Pembentangan Penyelidikan oleh : Prof. Dr. Lin Eang-Ang, National University of Singapore
12.	3 Mac	Wacana Ilmu "Pengalaman dan Cabaran dalam Proses Perundingan"
13.	6 Mac	Seminar "Informatik Perubatan Berasaskan Komputer"
14.	8 Mac	Pembentangan Kertas Kerja oleh Dr. Hejar Abdul Rahman, Jabatan Kesihatan Komuniti
15.	8 Mac	Bengkel <i>Interpretation of Data for ISO Standard</i>
16.	8 Mac	<i>Sustainable Tropical Rainforest Ecosystem: Why Carbon by Prof. Muhamad Awang</i>
17.	9 Mac	Syarahan Awam 'Yayasan Pak Rashid'

Academia-Industry Partnerships

The first meeting of the Academia Industry Consultancy Council (AICC) held on 16th May, 2005 had proposed that Higher Learning Institutions need to increase their efforts in establishing linkages with the good Academia-Industry and form a network between the Higher Learning Institutions and the industrial sector. The purpose of this collaboration is to re-evaluate and develop the curriculum, invite the industrial sector to give talks at Higher Learning Institutions, and to conduct R&D projects hand in hand and also share R&D facilities. In line with that, the 192nd UPM Management Council had asked the Centre for Academic Development (CADE) to propose the establishment of the Academia-Industry Consultancy Committee at the University level to plan and increase activities and promote an effective partnership with industries.

Among the Committees established were :

- The University Academia-Industry Consultancy Committee
- The Academia-Industry Partnership Executive Committee at the University level
- The Academia-Industry Partnership Executive Committee at the Faculty level

In an effort to execute this proposal, the Academia-Industry Partnership Unit, of the Centre for Academic Development (CADE) was established on 1st September, 2006. This Unit operates as the coordinator in Academia-Industry linkages to support quality teaching and learning standards.

The Academia-Industry information is extremely important as an input to formulate policies and to Implement academic programmes to support UPM's quality of teaching and learning functions. As a result, activities to foster Academia-Industry partnership have to be carried out in order to produce competitive students and to develop a reputation that will bring about UPM's branding. To date, the industry internship process is handled by each Faculty, using their very own respective procedures. The challenge faced by this system is to provide more places for UPM students to do internship in the private sector. Therefore, to simplify the supervisory process, a standardized procedure is utilized in an effort to strengthen the implementation of the students' industrial internship.



In order to standardize the academic industrial internship programme at UPM, the Centre for Academic Development (CADE) plays a vital role in establishing the Academia-Industry Partnership Unit whose role would be to :

- Develop an Academia-Industry Partnership Portal to introduce UPM's Academic Programmes
- Standardize Industrial Internship Procedures
- Preparing the Academia-Industry Linkages Directory

The portal can also be used by the Faculty to gain information and oversee the activities conducted to encourage Academia-Industry collaboration. The latest information on Industrial-Academia will be available in the portal which could be accessed at any time of the day, from any place.

The Industrial Directory and Academia-Industry's database contain information about the industries which have collaborated and are still collaborating with UPM. It can be used as reference to further boost Academia-Industry partnership.

As part of the effort to smoothen its functioning, various activities were conducted, such as, The Collation of Information Project concerning Malaysia's Ministry of Higher Education - The University-Industry Partnership-Fostering Strategic Linkages at Institutes of Higher Learning in Malaysia, which conducted inspection through a field study trip series to public Higher Learning Institutions, as well as private ones, to exchange information about the Implementation of the industry internship in the respective institutions, as well as conduct an Employer Survey.



No	Tarikh	Perkara
18.	10 Mac	Wacana Seni dalam filem "Media Penggerak Masyarakat Cendikia"
19.	10 – 12 Mac	Bengkel Mengemaskini dan Penambahbaikan Kurikulum Fasa 1 Program Doktor Perubatan
20.	14 Mac	<i>CME (Continuing Medical Education) Personal Financial Planning A Doctor's Perspective</i> , oleh Dr. Mazlan Yaacob
21.	16 Mac	Rumusan Pembentangan Kertas Kerja Dr. Maizaton Atmadini bt. Abdullah : <i>Expression of Epstein-Barr Virus Latent Membrane Protein 1 in Nasopharyngeal Carcinoma in Malaysia.</i> Prof. Madya Dr. Fauziah Othman : <i>Microscopy in Biomedical Research : Virotherapy in Breast Cancer.</i> Dr. Johnson Stanlas : <i>Semisynthesis of Antitumour Androgra-pholide Derivates Mechanisms of Antitumour.</i> 2. <i>Activities of Androgra-pholide Derivatives.</i>
22.	18 Mac	Bengkel Motivasi Staf – Rahsia Pensyarah Cemerlang
23.	19 Mac	Bahasa Melayu Wahana Ilmu dan Pemikiran
24.	21 – 23 Mac	<i>International Conference in Agriculture Wastes : Turning Wastes to Wealth</i>
25.	27 Mac	<i>Seminar ICT Research Opportunities in Agriculture and Food Mechanisation and Automation</i>
26.	4 April	<i>Seminar on CBVR : Bringing the Semantic Gap</i>
27.	4 April	<i>Continuing Medical Education – Quality of Life Assessment</i> oleh Dr. Raja Badrul
28.	5 April	<i>Continuing Medical Education – Patient Management for Coronary Artery Bypass Surgery</i> oleh Prof. Madya Dr. Martin Dworschak, University Hospital Vienna, Austria
29.	6 April	<i>Satelit "Medical & Community Services for The Elderly. The South Australia Perspective</i>
30.	12 April	Wacana Linguistik oleh Prof. Madya Dr. Sanat Md. Nasir dan Dr. Adi Yasran Abd. Aziz
31.	24 – 26 April	Kursus Agile Vee (Peserta terdiri daripada kakitangan STRIDE, Kementerian Pertahanan Malaysia)
32.	2 Mei	<i>Prospect of Stem Cell Research at UPM: Assisted Reproduction Cloning & Stem Cells</i>
33.	8 – 10 Mei	<i>The 6th MICELT (The Malaysia International Centre for English Language Teaching) Conference</i>
34.	9 – 10 Mei	Mengingati 600 tahun Ibn Khaldun: Pemikiran Ibn Khaldun dan Relevansinya dalam Tamadun Kontemporari
35.	16 – 18 Mei	<i>3-Day Short Course Complex Dynamics, Rational Functions & Relaxed Newton's Method</i> (Assist. Prof. Dr. Figen Cilinger TOBB Economics and Technology University, Turkey)
36.	20 – 21 Mei	<i>Endovascular Training Workshop in Animal Lab</i>
37.	22 – 26 Mei	<i>Workshop on Network Practive and Design</i>
38.	23 – 25 Mei	<i>Lecture Series in Regression Diagnostics</i> (Prof. Dr. A.H. Rahmatullah Imon University of Rajshashi, Bangladesh)
39.	25 Mei	Assessment Workshop Program Doktor Perubatan
40.	26 Mei	<i>Seminar on Implementing Personality and Emotion in Virtual Human</i>
41.	31 Mei	Hari Tanpa Tembakau Sedunia 2006- Peringkat Kebangsaan
42.	2 Jun	<i>One Day Seminar with: Prof. Dr. Ha Huy Khoai (Vietnamese Academy of Science and Technology)</i>
43.	10 – 14 Jun	<i>Search for Young Environmental Envoy UPM – Bayer (M) Berhad</i>
44.	11 – 13 Jun	Bengkel Projek Perundingan CORRI UPM _ NAHRIM
45.	13 – 14 Jun	<i>Hands-on Workshop on Design and Analysis of Experiments with SAS Application</i>
46.	14 Jun	<i>Seminar on Animation and Games Programming by Head of Games, Animation and VR, Creative Application and Development Centre, Multimedia Development Corporation Sdn. Bhd.</i>
47.	20 Jun	<i>Gumboro Disease Workshop</i>
48.	20 – 21 Jun	<i>Teaching Workshop</i>

Seminars, Public Lectures and Workshops

As a reservoir of knowledge, UPM's intellectual culture was further fertilized via Public Lectures, Conference, Seminars and Workshops to spread knowledge within the UPM community. Throughout 2006, world-class experts in various fields were invited to share their knowledge. Among them were :

No	Date	Item
1.	3 January	Preg Test Mini Workshop
2.	5 January	Seminar on Statistic Modelling in Marine Ecology and Statistic in Management & Administration
3.	12 January	Public Lecture by Nobel Laureate Peter C. Agre
4.	12 January	Seminar on Offline Cursive Handwritten Character Recognition : A Fundamental
5.	12 January	An Analysis of Edge Detection Using Two Derivatives Principle
6.	18 January	Seminar on Occupational Safety and Health
7.	19 January	Web Usability Testing and Information Architecture
8.	10 February	Half Day Seminar with: Prof. Dr. Luise-Charlotte Kappe Universitat Freiburg, Germany
9.	11 – 12 February	PHP Workshop
10.	13 – 17 February	The Midas Touch Freeze the Moment
11.	23 February	Research Presentation by: Prof. Dr. Lin Eang-Ang, National University of Singapore
12.	3 March	Intellectual Discourse "Experience and Challenges in Consultation Process"
13.	6 March	Seminar on Computer-Based Medical Informatics
14.	8 March	Paperwork Presentation by Dr. Hejar Abdul Rahman, Department of Community Health
15.	8 March	Interpretation of Data for ISO Standard Workshop
16.	8 March	Sustainable Tropical Rainforest Ecosystem: Why Carbon by Prof. Muhamad Awang
17.	9 March	Public Lecture 'Pak Rashid Foundation'
18.	10 March	Art Discourse in Film 'Media as the Mover in Intellect Community'
19.	10 – 12 March	Workshop on Updating and Improving Curriculum Phase 1 Program for Medical Doctor
20.	14 March	CME (Continuing Medical Education) Personal Financial Planning A Doctor's Perspective, by Dr. Mazlan Yaacob
21.	16 March	Paperwork presentation by: Dr. Maizaton Atmadini bt. Abdullah : Expression of Epstein-Barr Virus Latent Membrane Protein 1 In Nasopharyngeal Carcinoma in Malaysia. Assoc Prof. Dr. Fauziah Othman : Microscopy in Biomedical Research : Virotherapy in Breast Cancer. Dr. Johnson Stanlas : Semisynthesis of Antitumour Andrographolide Derivates Mechanisms of Antitumour. 2. Activities of Andrographolide Derivatives.
22.	18 March	Staff Motivation Workshop – The Secret of Excellent Lecturer
23.	19 March	Malay Language: Knowledge and Thinking
24.	21 – 23 March	International Conference in Agriculture Wastes : Turning Wastes to Wealth
25.	27 March	Seminar on ICT Research Opportunities in Agriculture and Food Mechanisation and Automation
26.	4 April	Seminar on CBVR : Bringing the Semantic Gap
27.	4 April	Continuing Medical Education – Quality of Life Assessment In by Dr. Raja Badrul
28.	5 April	Continuing Medical Education – Patient Management For Coronary Artery Bypass Surgery by Assoc. Prof. Dr. Martin Dworschak, University Hospital Vienna, Austria
29.	6 April	Satelit "Medical & Community Services For The Elderly. The South Australia Perspective
30.	12 April	Linguistic Discourse by Assoc. Prof. Dr. Sanat Md. Nasir and Dr. Adi Yasran Abd. Aziz
31.	24 – 26 April	Agilent Vee Course (Participants from STRIDE, Ministry of Defense)
32.	2 May	Prospect of Stem Cell Research at UPM: Assisted Reproduction Cloning & Stem Cells
33.	8 – 10 May	The 6th MICELT (The Malaysia International Centre for English Language Teaching) Conference
34.	9 – 10 May	Remembering 600 years of Ibn Khaldun: The Thinking of Ibn Khaldun and Its Relevancy in Contemporary Civilization
35.	16 – 18 May	3-Day Short Course Complex Dynamics, Rational Functions & Relaxed Newton's Method (Assist. Prof. Dr. Figen Cilinger TOBB Economics and Technology University, Turkey)
36.	20 – 21 May	Endovascular Training Workshop in Animal Lab
37.	22 – 26 May	Workshop on Network Practice and Design
38.	23 – 25 May	Lecture Series in Regression Diagnostics (Prof. Dr. A.H. Rahmatullah Imon University of Rajshahi, Bangladesh)
39.	25 May	Assessment Workshop Medical Program
40.	26 May	Seminar on Implementing Personality and Emotion in Virtual Human
41.	31 May	Hari Tanpa Tembakau Sedunia 2006- Peringkat Kebangsaan
42.	2 June	One Day Seminar with: Prof. Dr. Ha Huy Khoai (Vietnamese Academy of Science and Technology)
43.	10 – 14 June	Search for Young Environmental Envoy UPM – Bayer (M) Berhad
44.	11 – 13 June	Consultancy Project Workshop: CORRI UPM _ NAHRIM
45.	13 – 14 June	Hands-on Workshop on Design and Analysis of Experiments with SAS Application
46.	14 June	Seminar on Animation and Games Programming by Head of Games, Animation and VR, Creative Application and Development Centre, Multimedia Development Corporation Sdn. Bhd.
47.	20 June	Gumboro Disease Workshop
48.	20 – 21 June	Teaching Workshop

Table 23: Seminars, Public Lectures and Workshops in 2006

No	Tarikh	Perkara
49.	21 Jun	<i>Seminar on Pharmacokinetics of Antibiotics</i>
50.	27 -29 Jun	<i>PBL workshop – Train The Trainers</i>
51.	27 -29 Jun	Bengkel Pendedahan PERSAMA Siri 1: Kaedah Berangka Bagi Persamaan Pembezaan Biasa
52.	27 Jun	<i>Cancer Prevention in the 21st Century</i>
53.	30 Jun	Workshop on ABET Accreditation, Prof. Dr. Mustaque Hossain, Kansas State University, USA
54.	4 – 6 Julai	Teknik Peranian Beradas Pada Lembu
55.	11 Julai	<i>Motivational Talk Road to Stockholm: Making the Most of a Life in Science</i>
56.	11 – 16 Julai	Syarahan Awam oleh Dr. Peter Courtland Agre: "AQUAPORIN: From Atomic Structure to Clinical Medicine"
57.	13 – 15 Julai	<i>International Society for Music Education, Commission of Music in Special Education, Music Therapy and Music Medicine</i>
58.	14 Julai	Lawatan sempena Nobel Laureate oleh Dr. Peter C. Agre
59.	14 Julai	<i>Content-based Image Retrieval : An Overview</i>
60.	14 Julai	<i>Clarifying the Subject, Object, and Verb in Malaysian Language</i>
61.	18 Julai	Kursus Penggunaan Matematik di Kalangan Petani
62.	18 – 19 Julai	Seminar Melayu Mahawangsa
63.	19 Julai	Ceramah oleh Y.Bhg. Tun Daim Zainuddin
64.	19 Julai	<i>Seminar Introduction to Visual Engineering Environment</i>
65.	20 Julai	<i>Knowledge Management System (KMS) Life Cycle</i>
66.	25 Julai	<i>1st PBL – Case Design Workshop</i>
67.	27 Julai	Seminar Sistem Terbenam
68.	31 Julai – 2 Ogos	Konferensi Antarabangsa PET CT
69.	1 Ogos	Seminar Modal Insan " Ke Arah Pekerja dan Keluarga Cemerlang", Auditorium Jurutera, Fakulti Kejuruteraan
70.	1 – 2 Ogos	<i>International Conference : Exploring New Frontiers in Medicine and Health (ICFMH)</i>
71.	3 Ogos	<i>Post Conference Workshop and Seminar in Nutrigenomics</i>
72.	3 – 4 Ogos	<i>Microscopy in Medical Diagnosis and Biomedical Research</i>
73.	7 – 8 Ogos	<i>Problem Based Learning Facilitators Training Workshop</i>
74.	8 Ogos	<i>The 5th Malaysian Studies Conference MSC5</i>
75.	8 – 10 Ogos	<i>The 5th International Malaysian Studies Conference (MSC5)</i>
76.	20 September	Syarahan Umum oleh Prof. Sir Ghillean Tolmie Prance: "Why I Find Biodiversity an Exciting and Interesting Career"
77.	22 September	Syarahan Wacana Alam oleh Prof. Dato' Dr. Ariffin Suhaimi
78.	22 – 23 Ogos	Konferensi Kebangsaan Biologi Bermatematik 2006 (KKBM)
79.	22 – 24 Ogos	Bengkel Pelaksanaan Modul Pembangunan Kemahiran Insaniah
80.	24 Ogos	<i>Seminar on Efficient and Scalable Protocols to Support Source Specific Multicast (SSM) Over Mobile IPv6 Networks</i>

No	Date	Item
49.	21 June	Seminar on Pharmacokinetics of Antibiotics
50.	27 -29 June	PBL workshop – Train The Trainers
51.	27 -29 June	Exposure Workshop PERSAMA Series 1: Numerical Method for Common Differential Equation
52.	27 June	Cancer Prevention in the 21st Century
53.	30 June	Workshop on ABET Accreditation, Prof. Dr. Mustaque Hossain, Kansas State University, USA
54.	4 – 6 July	Artificial Insemination Technique In Cattle
55.	11 July	Motivational Talk Road to Stockholm: Making the Most of a Life in Science
56.	11 – 16 July	Public Lecture by Dr. Peter Courtland Agre: "AQUAPORIN: From Atomic Structure to Clinical Medicine"
57.	13 – 15 July	International Society for Music Education, Commission of Music in Special Education, Music Therapy and Music Medicine
58.	14 July	Visit in conjunction with Nobel Laureate: Dr. Peter C. Agre
59.	14 July	Content-based Image Retrieval : An Overview
60.	14 July	Clarifying the Subject, Object, and Verb in Malaysian Language
61.	18 July	Mathematical Usage Course Amongst Farmer (Participant: farmers in the area Kuala Selangor)
62.	18 – 19 July	Seminar Malay's Mahawangsa
63.	19 July	Talk by Y.Bhg. Tun Daim Zainuddin
64.	19 July	Seminar Introduction to Visual Engineering Environment
65.	20 July	Knowledge Management System (KMS) Life Cycle
66.	25 July	1st PBL – Case Design Workshop
67.	27 July	Seminar on Embedded System
68.	31 July – 2 August	International Conference on PET CT
69.	1 August	Seminar on Human Capital " Towards Excellent Employee and Family", Engineering Auditorium, Faculty of Engineering
70.	1 – 2 August	International Conference : Exploring New Frontiers in Medicine and Health (ICFMH)
71.	3 August	Post Conference Workshop and Seminar in Nutrigenomics
72.	3 – 4 August	Microscopy in Medical Diagnosis and Biomedical Research
73.	7 – 8 August	Problem Based Learning Facilitators Training Workshop
74.	8 August	The 5th Malaysian Studies Conference MSC5
75.	8 – 10 August	The 5th International Malaysian Studies Conference (MSC5)
76.	22 – 23 August	National Conference on Mathematical Biology 2006
77.	22 – 24 August	Workshop on the Implementation of Soft Skills Development
78.	24 August	Seminar on Efficient and Scalable Protocols to Support Source Specific Multicast (SSM) Over Mobile IPv6 Networks
79.	20 September	Public Lecture by Prof. Sir Ghillelan Tolmie Prance: "Why I Find Biodiversity an Exciting and Interesting Career"
80.	22 September	Public Lecture by Prof. Dato' Dr. Ariffin Suhaimi

Table 23: Seminars, Public Lectures and Workshops in 2006

No	Tarikh	Perkara
81.	24 -26 Ogos	Bengkel Aras Taksonomi dan Hasil Pembelajaran Program Sains Kesihatan
82.	4 September	<i>Simposium Trends in Biotechnology 3</i>
83.	4 – 8 September	Kursus Asas Keselamatan dan Pencegahan Kebakaran, Fakulti Kejuruteraan
84.	5 – 6 September	<i>PBL Facilitators Training Workshop</i>
85.	7 – 8 September	<i>Workshop on MPI Programming 2006</i>
86.	12 September	<i>Waters Ultra Performance Liquid Chromatography</i>
87.	12 – 19 September	Lokakarya Teori dan Kaedah Penyelidikan Linguistik
88.	15 September	<i>Vascular Imaging and Hand-On Workshop</i>
89.	16 September	Seminar Pendidikan Bahasa dan Kemanusiaan 2006
90.	18 September	<i>Workshop on Authothermal Desorber (ATD)</i>
91.	18 – 19 September	Kursus Pengurusan Rekod dan Fail
92.	19 September	<i>Seminar on Hierarchical Resource Management</i>
93.	19 September	<i>Seminar on Overview of Sensor Network</i>
94.	20 – 21 September	Kursus Etiket dan Keterampilan Diri
95.	21 September	<i>Seminar RNA Interference Technology</i>
96.	11 Oktober	<i>Seminar on Omega 3</i>
97.	19 Oktober	<i>Seminar on Handling ICT Security Incidents</i>
98.	31 Oktober	<i>Audio Presence : New Tools for Music Information Retrieval and Interaction, Department of EECS (Electrical Engineering and Computer Science), Northwestern University, USA</i>
99.	2 November	<i>Seminar on Canine Distemper : An Updated Review</i>
100.	9 – 11 November	<i>Bengkel Learning Outcomes Clinical</i>
101.	15 – 16 November	<i>National Seminar on Current Issues in Infectious Diseases (NSCIID)</i>
102.	20 November	<i>An Introduction to Data Mining and WEKA</i>
103.	20 – 24 November	Kursus <i>Numerical Method</i>
104.	23 – 25 November	Bengkel Kaedah Pengajaran dan <i>Student Centered Learning</i>
105.	24 November	Syarahan Awam oleh Prof. Roger M. Rowell: "Biocomposite: Concept to Market"
106.	27 – 29 November	<i>The Asia Association of Computer Assited Language Learning (AsiaCALL)</i>
107.	28 – 29 November	Konferensi Kebangsaan Kriptologi Ke-2 (NCC06)
108.	2 – 5 Disember	<i>The Fifth HRD (Human resource Development) Conference</i>
109.	6 – 7 Disember	Persidangan Fizik Kebangsaan 2006 (PERFIK 2006)
110.	12 – 14 Disember	<i>Agriculture Congress 2006</i>
111.	12 – 15 Disember	<i>TSL Expository Lecture Series 5 Computational Physicas Science 2006</i>
112.	12 – 15 Disember	<i>International Society of Southeast-Asian Agricultural Sciences (ISSAAS) Congress 2006</i>
113.	13 Disember	Syarahan "Providing Environmental Ethics in the Community : With Special Reference to the New Zealand Experience" oleh Prof. Dr. Alastair Gunn, Universiti Waikato, New Zealand
114.	13 – 15 Disember	<i>LACS Expository Lecture Series: Precedence Testing and Statistical Analysis of High-Dimensional Data Models with Applications to Genomic and Bioinformatics</i>
115.	13 – 15 Disember	<i>Seminar Glocal Issues and Challenges in Business and Economics</i>
116.	18 Disember	Bengkel <i>Scanning Probe Microscope & Non Contact Optical Profiler "Nano Scanning Your World"</i>
117.	19 Disember	<i>Cell-Based Screening Solution for Understanding Cell Viability, Cytotoxicity, Apoptosis And Reporter Gene Analysis"</i>
118.	19 Disember	<i>Seminar on Wildlife Jurisprudence: The Dos & Don't t's with Wildlife & Exotic Animals</i>
119.	20 Disember	<i>2nd PBL Case Design Workshop</i>

No	Date	Item
81.	24 -26 August	Taxonomy Level and Learning Outcome Workshop for Health Sciences Program
82.	4 September	Symposium on Trends in Biotechnology 3
83.	4 – 8 September	Foundation Course on Fire Safety and Prevention, Faculty of Engineering
84.	5 – 6 September	PBL Facilitators Training Workshop
85.	7 – 8 September	Workshop on MPI Programming 2006
86.	12 September	Waters Ultra Performance Liquid Chromatography
87.	12 – 19 September	Lokakarya Theory and Linguistic Research Methods
88.	15 September	Vascular Imaging and Hand-On Workshop
89.	16 September	Seminar on Language Education and Humanity 2006
90.	18 September	Workshop on Authothermal Desorber (ATD)
91.	18 – 19 September	Records and File Management Course
92.	19 September	Seminar on Hierarchical Resource Management
93.	19 September	Seminar on Overview of Sensor Network
94.	20 – 21 September	Etiquette and Self Appearance Course
95.	21 September	Seminar on RNA Interference Technology
96.	11 October	Seminar on Omega 3
97.	19 October	Seminar on Handling ICT Security Incidents
98.	31 October	Audio Presence : New Tools for Music Information Retrieval and Interaction, Department of EECS (Electrical Engineering and Computer Science), Northwestern University, USA
99.	2 November	Seminar on Canine Distemper : An Updated Review
100.	9 – 11 November	Learning Outcomes Clinical Workshop
101.	15 – 16 November	National Seminar on Current Issues in Infectious Diseases (NSCIID)
102.	20 November	An Introduction to Data Mining and WEKA
103.	20 – 24 November	Numerical Method Course
104.	23 – 25 November	Teaching Methods and Student Centered Learning Workshop
105.	24 November	Public Lecture by Prof. Roger M. Rowell: "Biocomposite: Concept to Market"
106.	27 – 29 November	The Asia Association of Computer Assited Language Learning (AsiaCALL)
107.	28 – 29 November	The 2nd National Conference on Cryptology
108.	2 – 5 December	The Fifth HRD (Human resource Development) Conference
109.	6 – 7 December	National Pyhsic Conference 2006 (PERFIK 2006)
110.	12 – 14 December	Agriculture Congress 2006
111.	12 – 15 December	TSL Expository Lecture Series 5 Computational Physicas Science 2006
112.	12 – 15 December	International Society of Southeast-Asian Agricultural Sciences (ISSAAS) Congress 2006
113.	13 December	Lecture on "Providing Environmental Ethics in the Community : With Special Reference to the New Zealand Experience" by Prof. Dr. Alastair Gunn, Universiti Waikato, New Zealand
114.	13 – 15 December	LACS Expository Lecture Series: Precedence Testing and Statistical Analysis of High-Dimensional Data Models with Applications to Genomic and Bioinformatics
115.	13 – 15 December	Seminar on Glocal Issues and Challenges in Business and Economics
116.	18 December	Scanning Probe Microscope & Non Contact Optical Profiler "Nano Scanning Your World Workshop
117.	19 December	Cell-Based Screening Solution for Understanding Cell Viability, Cytotoxicity, Apoptosis And Reporter Gene Analysis"
118.	19 December	Seminar on Wildlife Jurisprudence: The Dos & Don't t's with Wildlife & Exotic Animals
119.	20 December	2nd PBL Case Design Workshop

Table 23: Seminars, Public Lectures and Workshops in 2006

Syarah Inaugural

Pada tahun 2006, sebanyak tujuh (7) syarahan inaugural telah dilaksanakan seperti dalam **Jadual 24**.

Tarikh	Tajuk Syarahan/Pembentang
27.1.2006	<i>Rumen Microbes and Some of Their Biotechnological Applications</i> - Prof. Dr. Norhani Abdullah
24.2.2006	<i>Haemorrhagic Septicaemia in Cattle and Buffaloes: Are we Ready for Freedom?</i> - Prof. Dr. Abdul Aziz Saharee
3.3.2006	<i>Activating Teachers' Knowledge and Lifelong Journey in Their Professional Development</i> - Prof. Dr. Kamariah Abu Bakar
24.3.2006	<i>Internet Unwired</i> - Prof. Dr. Borhanuddin Mohd Ali
31.3.2006	<i>Development and Innovation in The Fracture Management of Animals</i> - Prof. Dr. Sundararajan Thilagar
19.5.2006	<i>Strategic Feeding for a Sustainable Ruminant Farming</i> - Prof. Dr. Zainal Aznam Mohd Jelani
14.7.2006	<i>Green Organic Chemistry Enzyme at work</i> - Prof. Dr. Mahiran Basri

Jadual 24: Syarahan Inaugural 2006

Memorandum Persefahaman (MoU) Peringkat Antarabangsa

Sepanjang tahun 2006, UPM telah menandatangani 14 Memorandum Persefahaman (MoU) dan MoU diperbaharui semula seperti dalam **Jadual 25**.

Memorandum Persefahaman (MoU) dan Memorandum Perjanjian (MoA) dalam Negara

Manakala lima Memorandum Persefahaman (MoU) dan Memorandum Perjanjian (MoA) bersama entiti dalam negara telah ditandatangani oleh UPM seperti dalam **Jadual 26**.

Penstrukturan Semula Bahagian Antarabangsa

Menerusi penstrukturan semula Bahagian Antarabangsa, fungsinya kini lebih menjurus kepada penyediaan maklumat dan perkhidmatan kepada para pelajar dan staf antarabangsa. Perkhidmatan yang disediakan merangkumi kebajikan pelajar seperti yang berikut:

- Menyediakan pelbagai maklumat bukan akademik kepada pelajar antarabangsa untuk membantu mereka menjalani kehidupan yang selesa di UPM.
- Memberikan khidmat bantuan penempatan pelajar dan keluarga mereka.
- Menyediakan perkhidmatan berkaitan dengan visa, pas pelajar, dan pas sosial bagi keluarga pelajar antarabangsa.
- Memberi khidmat nasihat kepada Persatuan Pelajar Antarabangsa.
- Menyediakan khidmat bantuan dan program untuk pelajar antarabangsa yang akan bergraduat dan pulang ke negara mereka (*Returning Home Program*).
- Menyediakan program kemasyarakatan kepada anggota keluarga pelajar antarabangsa.

Tarikh Perjanjian	Institusi
17 Januari 2006	• Clemson University, South Carolina, USA • Juba University, Sudan
27 Januari 2006 (diperbaharui)	Aachen University of Applied Science
21 Februari 2006	Universitas Airlangga, Indonesia
6 Mac 2006	Institute of Agrophysics, Poland
13 Mac 2006	Razi Vaccine & Serum Research Institute (RVSRI), Iran
14 Mac 2006	Gorgan University of Agricultural Sciences (GUASNR) & Natural Resources, Iran
24 Mac 2006	University of KwaZulu-Natal, South Africa bersama Bahagian Antarabangsa
25 April 2006	Johns Hopkins University Bloomberg School of Public Health, USA
9 Mei 2006	Johann Wolfgang Goethe-Universitat, Frankfurt, Germany
10 Mei 2006	University of Mannheim, Germany
19 Jun 2006	National Yunlin University of Science & Technology Taiwan
6 Sept 2006	Research Institute for Sustainable Humanosphere, Kyoto University, Japan
19 Sept 2006	The Waikato University, New Zealand
19 Sept 2006	Mie University, Japan

Jadual 25: MoU dan MoA Antarabangsa 2006

Tarikh Perjanjian	Institusi
20 Julai 2006	Memorandum of Understanding among Perbadanan Produktiviti Negara and Malaysia Airlines and UPM and University of Bradford
30 November 2006	Majlis Perbandaran Taiping /UPM /MINT
4 Disember 2006	Syarikat Siltera
11 Disember 2006	Underwater World Langkawi dan UPM
14 Disember 2006	UPM and The International Centre for Education in Islamic Finance (INCEIF)

Jadual 26: MoU dan MoA Dalam Negara 2006



Inaugural Lectures

In 2006, there were a total of seven Inaugural Lectures that were held as shown in Table 24.

Date	Lecture Topic/Speaker
27.1.2006	Rumen Microbes And Some Of Their Biotechnological Applications- Prof. Dr. Norhani Abdullah
24.2.2006	Haemorrhagic Septicaemia In Cattle And Buffaloes: Are we Ready For Freedom?- Prof. Dr. Abdul Aziz Saharee
3.3.2006	Activating Teachers' Knowledge And Lifelong Journey In Their Professional Development- Prof. Dr. Kamariah Abu Bakar
24.3.2006	Internet Unwired- Prof. Dr. Borhanuddin Mohd Ali
31.3.2006	Development And Innovation In The Fracture Management Of Animals- Prof. Dr. Sundararajan Thilagar
19.5.2006	Strategic Feeding For A Sustainable Ruminant Farming- Prof. Dr. Zainal Aznam Mohd Jelani
14.7.2006	Green Organic Chemistry Enzyme At work- Prof. Dr. Mahiran Basri

Table 24: Inaugural Lectures in 2006

International Level Memorandum of Understanding (MoU)

Throughout 2006, UPM signed 14 International Memorandum of Understanding (MoU) and MoU renewed as shown in Table 25.

Local Memorandum of Understanding (MoU) and Memorandum of Agreement (MoA)

Five (5) Memorandum of Understanding (MoU) and Memorandum of Agreement (MoA) were signed by UPM with local entities as shown in the Table 26.

Restructuring Of The International Division

By restructuring the International Division, its functions were now focused towards preparing information and providing services to international students and foreign employees. The services provided include students' welfare as stated below:

- Providing various non-academic information for international students to help them lead a comfortable life at UPM.
- Providing residential assistance for students and their families.
- Providing services related to visa, students' pass and social passes for family members of these international students.
- Giving advice to the International Students' Association.
- Providing assistance and programmes for international students who will graduate and return to their homeland (Returning Home Programme).
- Preparing community programmes for the international students' family members.



Date	Institutions
17 January 2006	Clemson University, South Carolina, USA Juba University, Sudan
27 January 2006 (renewed)	Aachen University of Applied Science
21 February 2006	Universitas Airlangga, Indonesia
6 March 2006	Institute of Agrophysics, Poland
13 March 2006	Razi Vaccine & Serum Research Institute (RVSRI), Iran
14 March 2006	Gorgan University of Agricultural Sciences (GUASNR) & Natural Resources, Iran
24 March 2006	University of KwaZulu-Natal, South Africa
25 April 2006	Johns Hopkins University Bloomberg School of Public Health, USA
9 May 2006	Johann Wolfgang Goethe-Universitat, Frankfurt, Germany
10 May 2006	University of Mannheim, Germany
19 June 2006	National Yunlin University of Science & Technology Taiwan
6 Sept 2006	Institute for Sustainable Humanosphere, Kyoto University, Japan
19 Sept 2006	Waikato University, New Zealand
19 Sept 2006	Mie University, Japan

Table 25: International MoU's and MoA's in 2006

Date	Institutions
20 July 2006	Memorandum of Understanding among National Produktiviti Organization, Malaysia Airlines, UPM and the University of Bradford
30 November 2006	The Taiping City Council/UPM/MINT
4 December 2006	Syarikat Siltera
11 December 2006	Underwater World Langkawi and UPM
14 December 2006	UPM and The International Centre for Education in Islamic Finance (INCEIF)

Table 26: MoU and MoA in State 2006

Penyertaan Staf UPM Ke Persidangan Antarabangsa

Pada Tahun 2006, seramai 115 orang staf UPM telah menghadiri seminar, konferensi, dan bengkel peringkat antarabangsa di luar negara seperti dalam **Jadual 27**.

Bil.	Nama / Fakulti	Tajuk, Tarikh dan Tempat Seminar	Tajuk Kertas Kerja
MAC			
1.	Prof. Madya Dr. Jariah Masud Jabatan Pengurusan Sumber dan Pengajian Pengguna, Fakulti Ekologi Manusia	52nd Annual ACCI Conference 15 - 18 Mac 2006 Maryland, USA	Economic Well Being Of The Elderly : Gender Differences.
APRIL			
2.	Puan Naimah binti Mohd Salleh Jabatan Pengurusan Sumber dan Pengajian Pengguna Fakulti Ekologi Manusia	Geriatrics 2006 International Congress of Elderly Health 2 - 6 April 2006 Istanbul, Turkey	Perceived Health Status Among Elderly in Malaysia.
3.	Dr. Mumtazah Othman Jabatan Pengurusan Sumber dan Pengajian Pengguna, Fakulti Ekologi Manusia	Geriatrics 2006 International Congress of Elderly Health 2 - 6 April 2006 Istanbul, Turkey	Household Items as an Indicator of Material Well Being Among Single Poor Elderly in Peninsular Malaysia.
4.	Dr. Sharifah Norazizan binti Syed Abd. Rashid Jabatan Makmal Institut Gerontologi	Geriatrics 2006 International Congress of Elderly Health 2 - 4 April 2006 Istanbul, Turki	<ol style="list-style-type: none"> Promoting Healthy Ageing in Healthy Cities - Activities, Access and Ageing in Malaysia. Designing Assistive Technology in Homes to Meet the Social, Culture & Psychological Needs and Wants of Older Malaysians for Better Quality of Life.
5.	Dr. Hejar Bte Abdul Rahman Jabatan Kesihatan Komuniti, Fakulti Perubatan dan Sains Kesihatan	Eighth World Conference on Injury Prevention and Safety Promotion 2 - 5 April 2006 Durban, South Africa	Patterns of road users and accidents among 19 years old students in a state in Malaysia.
6.	Pn. Nor Atiah Ismail Jabatan Senibina Landskap, Fakulti Rekabentuk dan Senibina	2nd International Network for Tropical Architecture Conference (INTA 2006 Conference) 3 - 5 April 2006 Grand Mercury Hotel, Jogjakarta Indonesia	<ol style="list-style-type: none"> Public Preference Method for Visual Landscape Evaluation. Malay Cultural Responsive Landscape: Evidence of Integration Between Man dan Nature.
7.	Prof. Madya Dr. Adznan bin Jantan Jabatan Komputer dan Komunikasi, Fakulti Kejuruteraan	3rd IEE, International Conference Power Electronic Machine & Drive 4 - 6 April 2006 Clontarf Castle, Dublin Ireland	Autonomous Vehicle Driving Control System.
8.	Prof. Dr. Mohd Maarof H.A. Moxin Jabatan Fizik, Fakulti Sains	Condensed Matter and Materials Physics (CMMP06) 20 - 21 April 2006 Univ. Of Exeter, UK	Thermal Diffusivity of Carbon Nanotube -filled Polymer Films at Low Temperatures.
9.	Dr. Shamsul Bahari bin Shamsudin Jabatan Kesihatan Komuniti, Fakulti Perubatan dan Sains Kesihatan	The 1st East Asia Conference of the ISEE (International Society for Environmental Epidemiology) 28 - 30 April 2006 Taipei, Taiwan	Children's Blood Lead : Ethnic Differences in Home Cleaning Practice in Seri Serdang, Selangor.
10.	Prof. Madya Dr. Zailina Hashim Jabatan Kesihatan Komuniti, Fakulti Perubatan dan Sains Kesihatan	1st East Asia International Environmental Epidemiology Conference 28 -30 April 2006 Taipei, Taiwan	<ol style="list-style-type: none"> Occupatio-nal Chemical Health Risk Assessment in Malaysia. Neurotoxi-city Assessment of Solvent on Industrial Workers in Malaysia.
MEI			
11.	Prof. Dr. Kaida Khalid Jabatan Fizik, Fakulti Sains	5th International Symposium on Humidity and Moisture (ISHM 2006 Brazil) 2 - 5 Mei 2006 Rio De Janeiro, Brazil	Temperature Effect Reduction in Moisture Measurement of Liquid Using Dual Frequency Microstrip Antennas.
12.	Prof. Madya Dr. Paridah Md Tahir Jabatan Pengeluaran Hutan, Fakulti Perhutanan	2nd International Symposium on Veneer Processing and Products 9 - 10 Mei 2006 Vancouver, Canada	<ol style="list-style-type: none"> Optimization of Oil Palm Trunk Plywood Manufacture - Oral. Predicting The Service Life of Bintangor (Callophyllum spp.) Laminated Veneer Lumber Using Cyclic Boil Dry Treatment - Poster.

UPM Employees' Participation at International Conferences

In 2006, 115 UPM employees attended numerous International level seminars, conferences, and workshops held overseas as shown in the Table 27.

No.	Name / Faculty	Title, Date and Venue of the Seminar	Title of Working Paper
MARCH			
1.	Assoc. Prof. Dr. Jariah Masud Resources Management and Consumer Learning Department, Faculty of Human Ecology	52nd Annual ACCI Conference 15th - 18th Mac 2006 Maryland, USA	Economic Well Being Of The Elderly : Gender Differences.
APRIL			
2.	Mdm. Naimah binti Mohd Salleh Resources Management and Consumer Learning Department, Faculty of Human Ecology	Geriatrics 2006 International Congress of Elderly Health 2nd - 6th April 2006 Istanbul, Turkey	Perceived Health Status Among Elderly in Malaysia.
3.	Dr. Mumtazah Othman Resources Management and Consumer Learning Department, Faculty of Human Ecology	Geriatrics 2006 International Congress of Elderly Health 2nd - 6th April 2006 Istanbul, Turkey	Household Items as an Indicator of Material Well Being Among Single Poor Elderly in Peninsular Malaysia.
4.	Dr. Sharifah Norazizan binti Syed Abd. Rashid Laboratory Department Institute of Gerontology	Geriatrics 2006 International Congress of Elderly Health 2nd - 4th April 2006 Istanbul, Turki	1. Promoting Healthy Ageing in Healthy Cities - Activities, Access and Ageing in Malaysia. 2. Designing Assistive Technology in Homes to Meet the Social, Culture & Psychologi-cal Needs and Wants of Older Malaysians for Better Quality of Life.
5.	Dr. Hejar Bte Abdul Rahman Community Health Department, Faculty of Medicine & Health Science	Eighth World Conference on Injury Prevention and Safety Promotion 2nd - 5th April 2006 Durban, South Africa	Patterns of road users and accidents among 19 years old students in a state in Malaysia.
6.	Mdm. Nor Atiah Ismail Landscape Architecture, Faculty of Design and Architecture	2nd International Network for Tropical Architecture Conference (INTA 2006 Conference) 3rd - 5th April 2006 Grand Mercury Hotel, Jogjakarta Indonesia	1. Public Preference Method for Visual Landscape Evaluation. 2. Malay Cultural Responsive Landscape: Evidence of Integration Between Man dan Nature.
7.	Assoc. Prof. Dr. Adznan bin Jantan Computer and Communication Department, Faculty of Engineering	3rd IEE, International Conference Power Electronic Machine & Drive 4th - 6th April 2006 Clontarf Castle, Dublin Ireland	Autonomous Vehicle Driving Control System.
8.	Prof. Dr. Mohd Maarof H.A. Moksni Physics Department, Faculty of Science	Condensed Matter and Materials Physics (CMMP06) 20th - 21st April 2006 Univ. Of Exerter, UK	Thermal Diffusivity of Carbon Nanotube -filled Polymer Films at Low Temperatures.
9.	Dr. Shamsul Bahari bin Shamsudin Community Health Department, Faculty of Medicine and Health Science	The 1st East Asia Conference of the ISEE (International Society for Environmental Epidemiology) 28th - 30th April 2006 Taipei, Taiwan	Children's Blood Lead : Ethnic Differences in Home Cleaning Practice in Seri Serdang, Selangor.
10.	Assoc. Prof. Dr. Zailina Hashim Community Health Department, Faculty of Medicine and Health Science	1st East Asia International Environmental Epidemiology Conference 28th -30th April 2006 Taipei, Taiwan	1. Occupatio-nal Chemical Health Risk Assessment in Malaysia. 2. Neurotoxi-city Assessment of Solvent on Industrial Workers in Malaysia.
MAY			
11.	Prof. Dr. Kaida Khalid Physics Department, Faculty of Science	5th International Symposium on Humidity and Moisture (ISHM 2006 Brazil) 2nd - 5th Mei 2006 Rio De Janeiro, Brazil	Temperature Effect Reduction in Moisture Measurement of Liquid Using Dual Frequency Microstrip Antennas.
12.	Assoc. Prof. Dr. Paridah Md Tahir Forestry Products Department, Faculty of Forestry	2nd International Symposium on Veneer Processing and Products 9th - 10th Mei 2006 Vancouver, Canada	1. Optimization of Oil Palm Trunk Plywood Manufacture - Oral. 2. Predicting The Service Life of Bintangor (Callophyllum spp.) Laminated Veneer Lumber Using Cyclic Boil Dry Treatmen - Poster.

Table 27: Employees' Participation at International Conferences

Bil.	Nama / Fakulti	Tajuk, Tarikh dan Tempat Seminar	Tajuk Kertas Kerja
13.	Prof. Madya Dr. Zaidon bin Ashaari Jabatan Pengeluaran Hutan, Fakulti Perhutanan	2nd International Symposium on Veneer Processing and Products 9 - 10 Mei 2006 Vancouver, Canada	Manufacturing Process of Bamwood (Bamboo and wood) and its Mechanical Properties.
14.	Prof. Madya Dr Hj Mohd Basyaruddin Hj Abdul Rahman Jabatan Kimia, Fakulti Sains	Nanotech Conference and Trade Show 2006 : Computational Modeling in Life Sciences 7 - 11 Mei 2006 Massachussets USA	In Silico Modification of Thermostable Lipase from Geobacillus sp. Strain T1.
15.	Dr. Mohd Zariat bin Abdul Rani Jabatan Bahasa Melayu, Fakulti Bahasa Moden dan Komunikasi	International Symposium on Civilization and World Orders 12 - 14 Mei 2006 Istanbul, Turkey	Islamic Literature vs Western Culture: A Case Study From a Modern Malay Literature.
16.	Dr. Muhamad Fauzi bin Jumingan Jabatan Bahasa Asing, Fakulti Bahasa Moden dan Komunikasi	Persidangan Antarabangsa Penerbitan Malaysia-Indonesia: Mengukuhkan Jaringan Penerbitan Serantau 15 - 20 Mei 2006 Yogyakarta, Indonesia	1. Penerbitan Pertanika Journal of Social Science and Humanities oleh Penerbit UPM: Satu Analisis Kategori Bidang dan Subbidang. 2. Penerbitan Jurnal Penterjemahan Persatuan Penterjemah Malaysia : Satu Analisis Kategori dan Subbidang.
17.	Prof. Madya Dr. Megat Johari Megat Mohd Noor Jabatan Kejuruteraan Awam, Fakulti Kejuruteraan	Euromed 2006 Desalination Strategies in South Mediterranean Countries 21 - 24 Mei 2006 Montpellier, France	Effect of Natural Coagulant Application on Microfiltration Performance in the Treatment of Secondary Oxidation Pond Effluent.
18.	En. Saiful Nujaimi bin Abdul Rahman Jabatan Komunikasi, Fakulti Bahasa Moden dan Komunikasi	4th International Conference on Communication and Mass Media 22 - 24 Mei 2006 Athens, Greece	1. Malaysian Communication Culture at The Crossroads. 2. Media Convergence Environment In Malaysia: Conflicts & Challenges. 3. Defusing Conflicts in Contemporary Malaysia : Our Excess Baggage of the Past and The Uncertain Demands of Globalization.
19.	Puan Zainor Izat binti Zainal Jabatan Bahasa Inggeris, Fakulti Bahasa Moden dan Komunikasi	4th International Conference on Communication and Mass Media 22 - 24 Mei 2006 Athens, Greece	1. Malaysian Communication Culture at The Crossroads. 2. Media Convergence Environment In Malaysia: Conflicts & Challenges. 3. Defusing Conflicts in Contemporary Malaysia : Our Excess Baggage of the Past and The Uncertain Demands of Globalization.
20.	Dr. Mohamed Ibrahim bin Mohamed Tahir Jabatan Kimia, Fakulti Sains	89th Canadian Chemistry Conference and Exhibition 27 - 31 Mei 2006 Nova Scotia, Canada	Synthesis, Characterisation and Bioactivity of S-n-picoloyldithiocar-bazate Ligands and some of their Metal Complexes.
JUN			
21.	Prof. Madya Dr. Ahmad Farouk bin Musa Jabatan Surgeri, Fakulti Perubatan dan Sains Kesihatan	The 14th Annual Meeting of The Asian Society for Cardiovascular Surgery 1 - 3 Jun 2006 Osaka, Japan	Mitral Valve Repair in Adult Population : Review of Cases Done in a Single Centre.
22.	Puan Soh Kim Lam Jabatan Kesihatan Komuniti, Fakulti Perubatan dan Sains Kesihatan	International Primary Care Respiratory Group 3rd World Conference Respiratory Disease in Primary Care 8 -11 Jun 2006	Knowledge of Nosocomial Pneumonia Prevention Among Critical Care Nurses in New Zealand.
23.	Prof. Dr. Md Jelas Haron Jabatan Kimia, Fakulti Sains	International Worksyop on Frontiers and Interfaces of Ion Exchange 11 - 15 Jun 2006 Antalya, Turkey	Lanthanum-Exchanged Zeolite for Sorption of Arsenic Anion

No.	Name / Faculty	Title, Date and Venue of the Seminar	Title of Working Paper
13.	Assoc. Prof. Dr. Zaidon bin Ashaari Forestry Products Department, Faculty of Forestry	2nd International Symposium on Veneer Processing and Products 9th - 10th Mei 2006 Vancouver, Canada	Manufacturing Process of Bamwood (Bamboo and wood) and its Mechanical Properties.
14.	Assoc. Prof. Dr. Hj Mohd Basyaruddin Hj Abdul Rahman Chemistry Department, Faculty of Science	Nanotech Conference and Trade Show 2006 : Computational Modeling in Life Sciences 7th - 11th Mei 2006 Massachussets USA	In Silico Modification of Thermostable Lipase from Geobacillus sp. Strain T1.
15.	Dr. Mohd Zariat bin Abdul Rani Bahasa Melayu Department, Faculty of Modern Languages & Communication	International Symposium on Civilization and World Orders 12th - 14th Mei 2006 Istanbul, Turkey	Islamic Literature vs Western Culture: A Case Study From a Modern Malay Literature.
16.	Dr. Muhamad Fauzi bin Jumingan Foreign Language Department, Faculty of Modern Languages and Communication	International Malaysian-Indonesian Publishers' Conference: Strengthening The Regional Publishing Network 15th - 20th May 2006 Yogyakarta, Indonesia	1. Publishing of the <i>Pertanika</i> Journal of Social Science and Humanities by UPM's Publishers: A Categorical Analysis Of Fields and Subfields 2. Publishing of the <i>Interpretation</i> Journal by Malaysia's Interpreters Association : An Analysis of Categories and Subfields
17.	Assoc. Prof. Dr. Megat Johari Megat Mohd Noor Civil Engineering Department, Faculty of Engineering	Euromed 2006 Desalination Strategies in South Mediterranean Countries 21st - 24th Mei 2006 Montpellier, France	Effect of Natural Coagulant Application on Microfiltration Performance in the Treatment of Secondary Oxidation Pond Effluent.
18.	Mr. Saiful Nujaimi bin Abdul Rahman Communication Department, Faculty of Modern Languages and Communication	4th International Conference on Communication and Mass Media 22th - 24th Mei 2006 Athens, Greece	1. Malaysian Communication Culture at The Crossroads. 2. Media Convergence Environment In Malaysia: Conflicts & Challenges. 3. Defusing Conflicts in Contemporary Malaysia : Our Excess Baggage of the Past and The Uncertain Demands of Globalization.
19.	Mdm. Zainor Izat binti Zainal English Department, Faculty of Modern Languages and Communication	4th International Conference on Communication and Mass Media 22th - 24th Mei 2006 Athens, Greece	1. Malaysian Communication Culture at The Crossroads. 2. Media Convergence Environment In Malaysia: Conflicts & Challenges. 3. Defusing Conflicts in Contemporary Malaysia : Our Excess Baggage of the Past and The Uncertain Demands of Globalization.
20.	Dr. Mohamed Ibrahim bin Mohamed Tahir Chemistry Department, Faculty of Science	89th Canadian Chemistry Conference and Exhibition 27th - 31st Mei 2006 Nova Scotia, Canada	Synthesis, Characterisation and Bioactivity of S-n-picolylthiocar-bazate Ligands and some of their Metal Complexes.
JUNE			
21.	Assoc. Prof. Dr. Ahmad Farouk bin Musa Surgery Department, Faculty of Medicine and Health Science	The 14th Annual Meeting of The Asian Society for Cardiovascular Surgery 1st - 3th Jun 2006 Osaka, Japan	Mitral Valve Repair in Adult Population : Review of Cases Done in a Single Centre.
22.	Madam Soh Kim Lam Community Health Department, Faculty of Medicine and Health Science	International Primary Care Respiratory Group 3rd World Conference Respiratory Disease in Primary Care 8th -11th Jun 2006, Oslo, Norway	Knowledge of Nosocomial Pneumonia Prevention Among Critical Care Nurses in New Zealand.
23.	Prof. Dr. Md Jelas Haron Chemistry Department, Faculty of Science	International Worksyp on Frontiers and Interfaces of Ion Exchange 11th - 15th Jun 2006 Antalya, Turkey	Lanthanum-Exchanged Zeolite for Sorption of Arsenic Anion

Table 27: Employees' Participation at International Conferences

Bil.	Nama / Fakulti	Tajuk, Tarikh dan Tempat Seminar	Tajuk Kertas Kerja
24.	Prof. Madya Dr. Thamer Ahmad Mohammed Jab. Kejuruteraan Awam, Fakulti Kejuruteraan	Joint International Conference on Computing Decision Making In Civil and Bulding Engineering 14 - 15 Jun 2006 Montreal, Canada	One Dimensional Simulation of Flood Levels in a Tropical River System Using HEC-2 Model.
25.	En. Nuzul Azam bin Haron Jabatan Kejuruteraan Awam, Fakulti Kejuruteraan	International Conference on Construction Industry 2006 (ICCI 2006) 21 - 24 Jun 2006 Universitas Bung Hatta Padang, Indonesia	Building Cost Comparison Between Conventional and Composite Construction System in Malaysia : A Case Study of Single Storey House.
26.	Dr. Tang Sai Hong Jabatan Mekanikal dan Pembuatan, Fakulti Kejuruteraan	IASTED International Conference on Power and Energy Systems 26 - 28 Jun 2006 Rhodes, Greece	Analysis of Subsea Coaxial Cables Using the Transmission Line Theory.
27.	Prof. Madya Dr. Ahmad Ainuddin Nuruddin Jabatan Pengurusan Hutan, Fakulti Perhutanan	Urban Forestry for Human Health and Wellbeing ASEM 2nd Symposium on Urban Forestry 28 Jun - 1 Julai 2006 Copenhagen, Denmark	Role of Urban Park as an Outdoor Recreational Centre for Healthy Lifestyle.
28.	En. Amat Ramsa bin Yaman Jabatan Pengurusan Hutan, Fakulti Perhutanan	Urban Forestry for Human Health and Wellbeing - ASEM 2nd Symposium on Urban Forestry COST E39 Research Conference 28 Jun - 1 Julai 2006 Copenhagen, Denmark	Promoting Physical Activities and Healthy Lifestyles Through Urban Planning and Design : A Case Study of User Needs of Urban Green Space in Bandar Tun Razak, Kuala Lumpur.
JULAI			
31.	Puan Tan Bee Hoon Jabatan Bahasa Inggeris, Fakulti Bahasa Moden dan Komunikasi	AUSWEB'06 The Twelfth Australian World Wide Web Conference 1 - 5 Julai 2006 Brisbane, Australia	Online Automated Essay Assessment: Potentials for Writing Development.
32.	Dr. Sharida Fakurazi Jabatan Anatomi Manusia, Fakulti Perubatan dan Sains Kesihatan	The 15th World Congress of Pharmacology (IUPHAR 2006) Pharmacologi-cal in the 21st Century : A Bridge Between the Past and New Molecular Frontiers 2 - 7 Julai 2006 Beijing, China	Low Dozes of Diclofenac Induces Hepatocellular Changes in Rat Treated in Vivo.
33.	Dr. Vijay Kumar Mallan Jabatan Bahasa Inggeris, Fakulti Bahasa Moden dan Komunikasi	31st International Conference on Improving University Teaching 3 - 6 Julai 2006 Dunedin, New Zealand	Feedback and Self-regulated Learning.
34.	Dr. HjH Rahinah binti Ibrahim Jabatan Senibina, Fakulti Rekabentuk dan Senibina	2nd International Conference on Design Cognition and Computing 8 - 12 Julai 2006 Technical University of Eindhoven, Netherlands	Enhancing Cognition by Understanding Knowledge Movement in Design Collaboration.
35.	Dr. Siva K Balasundram Jabatan Teknologi Pertanian, Fakulti Pertanian	18th World Congress of soil Science 9 - 15 Julai 2006 Pennsylvania, USA	Site-specific Soil Management for Pineapple Production in a Tropical Peat.
36.	En. Ahmad Rizal bin Abdul Rahman Jabatan Rekabentuk Perindustrian, Fakulti Rekabentuk dan Senibina	16th World Congress on Ergonomics 10 - 14 Julai 2006 Netherlands, Europe	Ergonomics in Developing Countries : Malaysian Experience in Development of Ergonomics Product.

No.	Name / Faculty	Title, Date and Venue of the Seminar	Title of Working Paper
24.	Assoc. Prof. Dr. Thamer Ahmad Mohammed Public Engineering Department, Faculty of Engineering	Joint International Conference on Computing Decision Making In Civil and Bulding Engineering 14th - 15th June 2006 Montreal, Canada	One Dimensional Simulation of Flood Levels in a Tropical River System Using HEC-2 Model.
25.	Mr. Nuzul Azam bin Haron Public Engineering Department, Faculty of Engineering	International Conference on Construction Industry 2006 (ICCI 2006) 21st - 24st June 2006 Universitas Bung Hatta Padang, Indonesia	Building Cost Comparison Between Conventional and Composite Construction System in Malaysia : A Case Study of Single Storey House.
26.	Dr. Tang Sai Hong Mechanical Engineering and Manufacturing, Faculty of Engineering	IASTED International Conference on Power and Energy Systems 26th - 28th June 2006 Rhodes, Greece	Analysis of Subsea Coaxial Cables Using the Transmission Line Theory.
27.	Assoc. Prof. Dr. Ahmad Ainuddin Nuruddin Forest Management Department, Faculty of Forestry	Urban Forestry for Human Health and Wellbeing ASEM 2nd Symposium on Urban Forestry 28th June - 1st July 2006 Copenhagen, Denmark	Role of Urban Park as an Outdoor Recreational Centre for Healthy Lifestyle.
28.	Mr. Amat Ramsa bin Yaman Forest Management Department, Faculty of Forestry	Urban Forestry for Human Health and Wellbeing - ASEM 2nd Symposium on Urban Forestry COST E39 Research Conference 28th June - 1st July 2006 Copenhagen, Denmark	Promoting Physical Activities and Healthy Lifestyles Through Urban Planning and Design : A Case Study of User Needs of Urban Green Space in Bandar Tun Razak, Kuala Lumpur.
JULY			
31.	Mrs Tan Bee Hoon English Department, Faculty of Modern Languages and Communication	AUSWEB'06 The Twelfth Australian World Wide Web Conference 1st - 5th July 2006 Brisbane, Australia	Online Automated Essay Assessment: Potentials for Writing Development.
32.	Dr. Sharida Fakurazi Human Anatomy Department, Faculty of Medicine and Health Science	The 15th World Congress of Pharmacology (IUPHAR 2006) Pharmacologi-cal in the 21st Century : A Bridge Between the Past and New Molecular Frontiers 2nd - 7th July 2006 Beijing, China	Low Dozes of Diclofenac Induces Hepatocellular Changes in Rat Treated in Vivo.
33.	Dr. Vijay Kumar Mallan English Department, Faculty of Modern Languages and Communication	31st International Conference on Improving University Teaching 3rd - 6th July 2006 Dunedin, New Zealand	Feedback and Self-regulated Learning.
34.	Dr. Hjh Rahinah binti Ibrahim Architecture Department, Faculty of Design and Architecture	2nd International Conference on Design Cognition and Computing 8th - 12th July 2006 Technical University of Eindhoven, Netherlands	Enhancing Cognition by Understanding Knowledge Movement in Design Collaboration.
35.	Dr. Siva K Balasundram Agricultural Technology Department, Faculty of Agriculture	18th World Congress of soil Science 9th - 15th July 2006 Pennsylvania, USA	Site-specific Soil Management for Pineapple Production in a Tropical Peat.
36.	Mr. Ahmad Rizal bin Abdul Rahman Industrial Design Department, Faculty of Design and Architecture	16th World Congress on Ergonomics 10th - 14th July 2006 Netherlands, Europe	Ergonomics in Developing Countries : Malaysian Experience in Development of Ergonomics Product.

Table 27: Employees' Participation at International Conferences

Bil.	Nama / Fakulti	Tajuk, Tarikh dan Tempat Seminar	Tajuk Kertas Kerja
37.	Prof. Dr. Hj. Kamaruzaman bin Jusoff Jabatan Pengeluaran Hutan, Fakulti Perhutanan	10th Anniversary World Scientific & Engineering Academy & Society (WSEAS) - Energy, Environment, Ecosystems and Sustainable Development (EEESD '06) 11 - 13 Julai 2005 Athens, Greece	Remote Sensing-Gis Based Support System for Construction of New Forest Roads in Malaysian Forest Operations.
38.	Dr. Law Siong Hook Jabatan Ekonomi, Fakulti Ekonomi dan Pengurusan	International Conference on Business and Information 12-14 Julai 2006 Pan Pacific Hotel, Singapura	The Determinants of Financial Development from Openness and Institutional Quality Perspectives.
39.	Prof. Madya Dr. Aida Suraya binti Md Yunus Jabatan Pendidikan Sains dan Teknikal, Fak. Pengajian Pendidikan	Conference of the International Group for the Psychology of Mathematics Education (PME30) 16 - 21 Julai 2006 Prague, Czech Republic	Mathematics Teachers' Preparation Program : Determining the Balance Between Mathematics and Pedagogy.
40.	Dr. Mohd Nizar bin Hamidon Jabatan Kejuruteraan Elektrik dan Elektronik, Fakulti Kejuruteraan	6th Asian Control Conference 2006 (ASCC2006) 18 - 21 Julai 2006 Bali, Indonesia	Replacing Defective RTDs in High Power Electromotors Using SAW Temperature Sensor.
41.	Prof. Madya Dr. Rusea Go Laboratori Sains Kanopi, Akademi Hutan Hujan	The Annual Meeting Of The Association for Tropical Biology and Conservation 18 - 21 Julai 2006 Kunming, China	Padawan Limestone Orchids : Species Diversity, New Records, Rare and Endemism.
42.	Prof. Madya Dr. Khozirah Shaari Jabatan Kimia, Fakulti Sains	Asian Phytochemical Society Meeting - Natural Product Seminar 20 - 22 Julai 2006 Tokushima, Japan	Identification of Anti Inflammatory Compounds in Melicope ptelefolia by Means of LC-DAD-MS/MSn
43.	Prof. Madya Dr. Rohani Ahmad Tarmizi Laboratori Pendidikan dan Literasi Matematik, Institut Penyelidikan Matematik	Dresden International Symposium on Technology and Its Integration into Mathematics Education 20 - 23 Julai 2006 Saxony, Germany	Using Graphic Calculator in Teaching and Learning Mathematics : Effects on Students Achievement and Metacognitive Skills .
44.	Prof. Ir. Dr. Mohd Amin bin Mohd Soom Jabatan Kejuruteraan Biologi dan Pertanian, Fakulti Kejuruteraan	8th International Conference on Precision Agriculture 23 - 26 Julai 2006 Minnesota, USA	Zoning of Paddy Fields for Fertilizer Management.
45.	Prof. Madya Dr. Abdul Rashid bin Mohamed Shariff Jabatan Kejuruteraan Biologi dan Pertanian, Fakulti Kejuruteraan	Wcca 2006 World Congress on Computers in Agriculture 24 - 26 Julai 2006 Florida, USA	Automated Identification and Counting of Pests in the Paddy Fields Using Image Analysis.
46.	En. Wan Muhammad bin Wan Sulong Jabatan Bahasa Asing, Fakulti Bahasa Moden dan Komunikasi	Persidangan Naqd (Kritikan Sastera) ke 11 25 - 27 Julai 2006 Yarmouk University, Jordan	Peranan Wacana Kritikan Sastera Semasa dalam Memelihara Identiti Islam daripada Ancaman Liberalisasi Globalisasi.
47.	Dr. Zaitul Azma binti Zainon Hamzah Jabatan Bahasa Melayu, Fakulti Bahasa Moden dan Komunikasi	11th PAAL International Conference 27 - 28 Julai 2006 Kangwon National University, Korea	"Speech' Amongst Malay Children: An Insight of Living and Maturity .
48.	Prof. Dr. Mohd Zobir bin Hussein Jabatan Kimia, Fakulti Sains	11th PAAL International Conference 27 - 28 Julai 2006 Kangwon National University, Korea	"Speech' Amongst Malay Children: An Insight of Living and Maturity .

No.	Name / Faculty	Title, Date and Venue of the Seminar	Title of Working Paper
37.	Prof. Dr. Hj Kamaruzaman bin Jusoff Forestry Products Department, Faculty of Forestry	10th Anniversary World Scientific & Engineering Academy & Society (WSEAS) - Energy, Environment, Ecosystems and Sustainable Development (EEESD '06) 11th - 13th July 2005, Athens, Greece	Remote Sensing-Gis Based Support System for Construction of New Forest Roads in Malaysian Forest Operations.
38.	Dr. Law Siong Hook Economy Department, Faculty of Economics and Management	International Conference on Business and Information 12th - 14th July 2006 Pan Pacific Hotel, Singapore	The Determinants of Financial Development from Openness and Institutional Quality Perspectives.
39.	Assoc. Prof. Dr. Aida Suraya binti Md Yunus Science and Technical Education Department, Faculty of Educational Studies	Conference of the International Group for the Psychology of Mathematics Education (PME30) 16th - 21th July 2006 Prague, Czech Republic	Mathematics Teachers' Preparation Program : Determining the Balance Between Mathematics and Pedagogy.
40.	Dr. Mohd Nizar bin Hamidon Electrical and Electronic Engineering Department, Faculty of Engineering	6th Asian Control Conference 2006 (ASCC2006) 18th - 21th July 2006 Bali, Indonesia	Replacing Defective RTDs in High Power Electromotors Using SAW Temperature Sensor.
41.	Assoc. Prof. Dr. Rusea Go Canopy Science Laboratory, Academy of Rainforest	The Annual Meeting Of The Association for Tropical Biology and Conservation 18th - 21th July 2006 Kunming, China	Padawan Limestone Orchids : Species Diversity, New Records, Rare and Endemism.
42.	Assoc. Prof. Dr. Khozirah Shaari Chemistry Department, Faculty of Science	Asian Phytochemical Society Meeting - Natural Product Seminar 20th - 22th July 2006 Tokushima, Japan	Identification of Anti Inflammatory Compounds in Melicope ptelefolia by Means of LC-DAD-MS/MSn
43.	Assoc. Prof. Dr. Rohani Ahmad Tarnizi Mathematics Literature and Education Laboratory, Institute for Mathematical Research	Dresden International Symposium on Technology and Its Integration into Mathematics Education 20th - 23rd July 2006 Saxony, Germany	Using Graphic Calculator in Teaching and Learning Mathematics : Effects on Students Achievement and Metacognitive Skills .
44.	Prof. Ir. Dr. Mohd Amin bin Mohd Soom Biological & Agriculture Engineering Department, Faculty of Engineering	8th International Conference on Precision Agriculture 23rd - 26th July 2006 Minnesota, USA	Zoning of Paddy Fields for Fertilizer Management.
45.	Assoc. Prof. Dr. Abdul Rashid bin Mohamed Shariff Biology Engineering and Agriculture Department, Faculty of Engineering	Wcca 2006 World Congress on Computers in Agriculture 24th - 26th July 2006 Florida, USA	Automated Identification and Counting of Pests in the Paddy Fields Using Image Analysis.
46.	Mr. Wan Muhammad bin Wan Sulong Foreign Language Department, Faculty of Modern Languages and Communication	Naqd Conference (Kritikan Sastera) ke 11 25th - 27th July 2006 Yarmouk University, Jordan	Peranan Wacana Kritikan Sastera Semasa dalam Memelihara Identiti Islam daripada Ancaman Liberalisasi Globalisasi.
47.	Dr. Zaitul Azma binti Zainon Hamzah Bahasa Melayu Department, Faculty of Modern Languages and Communication	11th PAAL International Conference 27th - 28th Julai 2006 Kangwon National University, Korea	"Speech' Amongst Malay Children: An Insight of Living and Maturity .
48.	Prof. Dr. Mohd Zobir bin Hussein Chemistry Department, Faculty of Science	11th PAAL International Conference 27th - 28th Julai 2006 Kangwon National University, Korea	"Speech' Amongst Malay Children: An Insight of Living and Maturity .

Table 27: Employees' Participation at International Conferences

Bil.	Nama / Fakulti	Tajuk, Tarikh dan Tempat Seminar	Tajuk Kertas Kerja
OGOS			
49.	Dr. Rohani binti Aziz Jabatan Obstetrik dan Sains Kesihatan, Fakulti Perubatan dan Sains Kesihatan	2nd Malaysia Indonesia Medical Science Conference 2006 3 - 4 Ogos 2006 Hotel Borobudur, Jakarta	Sociodemographic Factors of Patient Satisfaction in Hospital Kajang.
50.	Dr. Roslida bt Abdul Hamid @ Abdul Razak Jab Sains Bioperubatan, Fakulti Perubatan dan Sains Kesihatan	47th Annual Meeting of the American Society of Pharmacog-nosy 5 - 9 Ogos 2006 Virginia, USA	Anti-Inflammatory, Analgesic and Anti-Anaphylactic Effects of Compounds From Ardisia Crispa.
51.	Dr. Abdul Rashid bin Jamian Jabatan Pendidikan Bahasa dan Kemanusiaan, Fakulti Pengajian Pendidikan	Konferensi International : Program Pendidikan Guru Untuk Abad Ke-21 : Jawapan Terhadap Tantangan Global 7 - 9 Ogos 2006 Bandung, Indonesia	Amalan Pedagogi Bahasa Melayu Dalam Kalangan Guru Terhadap Pelajar Lemah Bahasa Melayu.
52.	Dr. Asmawati bte Suhid Jabatan Pendidikan Bahasa dan Kemanusiaan, Fakulti Pengajian Pendidikan	Konferensi International: Program Pendidikan Guru Untuk Abad Ke-21 : Jawapan Terhadap Tantangan Global 7 - 9 Ogos 2006 Bandung, Indonesia	Pemantapan Pendidikan Islam di Malaysia Dalam Menangani Era Globalisasi.
53.	Encik Naffi bin Mat Jabatan Pendidikan Bahasa dan Kemanusiaan, Fakulti Pengajian Pendidikan	Konferensi International: Program Pendidikan Guru Untuk Abad Ke-21 : Jawapan Terhadap Tantangan Global 7 - 9 Ogos 2006 Bandung, Indonesia	Komponen Sastera Dalam Pendidikan Bahasa Melayu : Pelestarian Pembentukan Jati Diri Bangsa.
54.	Dr. Roselan bin Baki Jabatan Pendidikan Bahasa dan Kemanusiaan, Fakulti Pengajian Pendidikan	Konferensi International: Program Pendidikan Guru Untuk Abad Ke-21 : Jawapan Terhadap Tantangan Global 7 - 9 Ogos 2006 Bandung, Indonesia	Kualiti Pengajaran : Menggantikan Pendekatan Serious dengan Pendekatan Santai.
55.	Dr. Heng Hock Gan Jabatan Pengajian Klinikal Veterinar, Fakulti Perubatan Veterinar	International Veterinary Radiology Association (IVRA)/American College of Veterinary Radiology (ACVR) 2006 Joint Scientific Conference 7-11 Ogos 2006 Vancouver, Canada	Sonography Estimation of Gallbladder Volume in Normal Adult Dogs.
56.	Dr. Wong Kong Yew Jabatan Hospitaliti dan Pengurusan, Fakulti Ekonomi dan Pengurusan	Tourism and the New Asia 9 - 12 Ogos 2006 Beijing, China	Tourism Industrial Development Lifecycle Model.
57.	Prof. Madya Dr. Mohamed Zakaria bin Hussin Jabatan Pengurusan Hutan, Fakulti Perhutanan	24th International Ornithological Congress 2006 13 - 19 Ogos 2006 Hamburg, Germany	Understorey Bird Species as Indicator of Tropical Forest Ecosystem Health.
58.	Prof. Madya Dr. Jothi Malar Panandam Jabatan Sains Haiwan, Fakulti Pertanian	The 8th World Congress on Genetics Applied to Livestock Production 13 - 18 Ogos 2006 Belo Horizonte, Brazil	Genetic Variation at ten Microsatellite Loci in a Sika Deer Population in Malaysia.
59.	Prof. Madya Dr. Wong Bee Eng Jabatan Bahasa Inggeris, Fakulti Bahasa Moden dan Komunikasi	The 2006 Asia TEFL International Conference Spreading Our Wings : Meeting TEFL Challenges 18 - 20 Ogos 2006 Fukuoka, Japan	Acquisition of the English Past Tense and Present Perfect among ESL Learners.
60.	Prof. Dr Chan Swee Heng Jabatan Bahasa Inggeris, Fakulti Bahasa Moden dan Komunikasi	2006 Asia TEFL International Conference Spreading Our Wings: Meeting TEFL challenges 18 - 20 Ogos 2006 Fukuoka, Japan	<ol style="list-style-type: none"> 1. Testing English for Science and Technology: The Malaysian Experience. 2. Acquisition of The English Past Tense and Present Perfect Among ESL Learners.

No.	Name / Faculty	Title, Date and Venue of the Seminar	Title of Working Paper
AUGUST			
49.	Dr. Rohani binti Aziz Obstetric and Health Science Department, Faculty of Medicine and Health Science	2nd Malaysia Indonesia Medical Science Conference 2006 3rd - 4th Ogos 2006 Hotel Borobudur, Jakarta	Sociodemographic Factors of Patient Satisfaction in Hospital Kajang.
50.	Dr. Roslida bt Abdul Hamid @ Abdul Razak Biomedical Science Department, Faculty of Medicine and Health Science	47th Annual Meeting of the American Society of Pharmacog-nosy 5th - 9th August 2006 Virginia, USA	Anti-Inflammatory, Analgesic and Anti-Anaphylactic Effects of Compounds From <i>Ardisia Crispa</i> .
51.	Dr. Abdul Rashid bin Jamian Humanity and Language Education Department, Faculty of Educational Studies	International Conference : 21st Century Teachers' Education Programme : Answers To Global Challenges 7th - 9th August 2006 Bandung, Indonesia	The Practice of Bahasa Melayu "Pedagogy" among teachers towards students who are weak in Bahasa Melayu.
52.	Dr. Asmawati bte Suhid Humanity and Language Education Department, Faculty of Educational Studies	International Conference : 21st Century Teachers' Education Programme : Answers To Global Challenges 7th - 9th August 2006 Bandung, Indonesia	Enhancing Islamic Education in Malaysia to cope with Era of Globalization.
53.	Mr Naffi bin Mat Humanity and Language Education Department, Faculty of Educational Studies	International Conference : 21st Century Teachers' Education Programme : Answers To Global Challenges 7th - 9th August 2006 Bandung, Indonesia	Literature Components in Bahasa Melayu Education : Preserving Individual Ethnicity.
54.	Dr. Roselan bin Baki Humanity and Language Education Department, Faculty of Educational Studies	International Conference : 21st Century Teachers' Education Programme : Answers To Global Challenges 7th - 9th August 2006 Bandung, Indonesia	Teaching Quality : Replacing Serious Approaches with Subtle Approaches.
55.	Dr. Heng Hock Gan Veterinary Clinical Research Department, Faculty of Veterinary Medicine	International Veterinary Radiology Association (IVRA)/American College of Veterinary Radiology (ACVR) 2006 Joint Scientific Conference 7th - 11th August 2006 Vancouver, Canada	Sonography Estimation of Gallbladder Volume in Normal Adult Dogs.
56.	Dr. Wong Kong Yew Hospitality and Management Department, Faculty of Economics and Management	Tourism and the New Asia 9th - 12th August 2006 Beijing, China	Tourism Industrial Development Lifecycle Model.
57.	Assoc. Prof. Dr. Mohamed Zakaria bin Hussin Forest Management Department, Faculty of Forestry	24th International Ornithological Congress 2006 13th - 19th August 2006 Hamburg, Germany	Understorey Bird Species as Indicator of Tropical Forest Ecosystem Health.
58.	Assoc. Prof. Dr. Jothi Malar Panandam Animal Science Department, Faculty of Agriculture	The 8th World Congress on Genetics Applied to Livestock Production 13th - 18th August 2006 Belo Horizonte, Brazil	Genetic Variation at ten Microsatellite Loci in a Sika Deer Population in Malaysia.
59.	Assoc. Prof. Dr. Wong Bee Eng English Department, Faculty of Modern Languages and Communication	The 2006 Asia TEFL International Conference Spreading Our Wings: Meeting TEFL challenges 18th - 20th August 2006 Fukuoka, Japan	Acquisition of the English Past Tense and Present Perfect among ESL Learners.
60.	Prof. Dr. Chan Swee Heng English Department, Faculty of Modern Languages and Communication	The 2006 Asia TEFL International Conference Spreading Our Wings: Meeting TEFL Challenges 18th - 20th August 2006 Fukuoka, Japan	1. Testing English for Science and Technology: The Malaysian Experience. 2. Acquisition of The English Past Tense and Present Perfect Among ESL Learners.

Table 27: Employees' Participation at International Conferences

Bil.	Nama / Fakulti	Tajuk, Tarikh dan Tempat Seminar	Tajuk Kertas Kerja
61.	Dr. Ho Chai Ling Jabatan Biologi Sel dan Molekul, Fakulti Bioteknologi dan Sains Biomolekul	The 8th International Congress of Plant Molecular Biology 20 - 25 Ogos 2006 Adelaide, Australia	The Isolation of Salinity Tolerant Genes from Two Mangrove Plants, Acanthus ebracteatus Vahl and Bruguiera cylindrica (L.) Blume.
62.	Dr. Parameswari a/p Namasivayam Jabatan Biologi Sel dan Molekul, Fakulti Bioteknologi dan Sains Biomolekul	8th International Congress of Plant Molecular Biology 20 - 25 Ogos 2006 Adelaide, Australia	Is Extracellular Matrix (ECM) layer, a structural marker for winter oilseed rape embryogenic cultures?
63.	Prof. Madya Dr. Faridah binti Abdullah Jabatan Biologi, Fakulti Sains	8th International Mycological Congress, Cairns Convention Centre, Australia 20 - 25 Ogos 2006 Cairns, Australia	Molecular Studies Support the Interfertility Data in Solving Taxonomic Problems of Ganoderma Boninense.
64.	Dr. Shamarina binti Shohaimi Jabatan Biologi, Fakulti Sains	Fakulti Sains 11th World Congress on Public Health 21 - 25 Ogos 2006 Rio De Janeiro, Brazil	Individual and Area-Based Measures of Socio-Economic Status and Cardiovascular Disease Risk Factors
65.	Dr. Shamsul Bahri Hj Mohd Tamrin Jabatan Kesihatan Komuniti, Fakulti Perubatan dan Sains Kesihatan	Ergo Future 2006: International Symposium on Past, Present and Future Ergonomics, Occupational Safety and Health 28 - 30 Ogos 2006 Bali, Indonesia	The Association Between Risk Factors and Low Back Pain Among Commercial Vehicle Drivers in Peninsular Malaysia.
66.	Dr. Juliana binti Jalaludin Jabatan Kesihatan Komuniti, Fakulti Perubatan dan Sains Kesihatan	Ergo Future 2006: International Symposium on Past, Present and Future Ergonomics, Occupational Safety and Health 28 - 30 Ogos 2006 Bali, Indonesia	Indoor Air Quality Inside Buses and Its Implications to Respiratory Health Among Drivers.
67.	Prof. Madya Dr. Mohd Yunus bin Abdullah Jabatan Kesihatan Komuniti, Fakulti Perubatan dan Sains Kesihatan	Ergo Future 2006, International Symposium on Past, Present and Future Ergonomic, Occupational Safety and Health 28 - 30 Ogos 2006 Bali, Indonesia	The Use of Transcutaneous Electro Nerve Stimulation (TENS) in Reducing Electro Spinae Muscle Fatigue Among Commercial Vehicle Drivers.
68.	Prof. Madya Dr. Mohd Hassan bin Selamat Jabatan Sistem Maklumat, Fakulti Sains Komputer dan Teknologi Maklumat	VIPSI-2006 LONDON 31 Ogos - 3 Sept. 2006 Knightsbridge, London	Personalization and Recommendation for Automatic Interest Identification in Knowledge Sharing Facilitation.
SEPTEMBER			
69.	Prof. Madya Dr. Aminuddin bin Yusoff Akademi Sukan	South African Sport Science Conference 7 - 9 Sept. 2006 Potchefstroom, South Africa	Sports as a Tourist Attraction : Examining Tourist Profiles and Destination Characteristics.
70.	Prof. Madya Dr. Taufiq Yap Yun Hin Jabatan Kimia, Fakulti Sains	9th Eurasia Conference on Chemical Sciences (EuAsC2S-9) 9 - 13 Sept. 2006 Antalya, Turki	Mechanochemical Modification of Vanadium Phosphate Catalysts for Partial Oxidation of N-Butane
71.	Prof. Madya Dr. Irmawati Ramli Jabatan Kimia, Fakulti Sains	9th Eurasia Conference on Chemical Sciences (EuAsC2 S-9) 9 - 13 Sept. 2006 Antalya, Turkey	Influence of Precipitating Agents on the Characteristic of Bismuth Oxide Nanoparticles.
72.	Kamziah binti Abd Kudus Jab. Pengurusan Hutan, Fakulti Perhutanan	Royal Statistical Society International Conference 10 - 14 Sept. 2006 Belfast, Ireland	IA Random Effects Model for the Interval Censored Survival Times of Acacia Mangium Plantation.

No.	Name / Faculty	Title, Date and Venue of the Seminar	Title of Working Paper
61.	Dr. Ho Chai Ling Cell and Molecular Biology Department, Faculty of Biotechnology and Biomolecular Sciences	The 8th International Congress of Plant Molecular Biology 20th - 25th August 2006 Adelaide, Australia	The Isolation of Salinity Tolerant Genes from Two Mangrove Plants, Acanthus ebracteatus Vahl and Bruguiera cylindrica (L.) Blume.
62.	Dr. Parameswari a/p Namasivayam Cell and Molecular Biology Department, Faculty of Biotechnology and Biomolecular Sciences	8th International Congress of Plant Molecular Biology 20th - 25th August 2006 Adelaide, Australia	Is Extracellular Matrix (ECM) layer, a structural marker for winter oilseed rape embryogenic cultures?
63.	Assoc. Prof. Dr. Faridah binti Abdullah Biology Department, Faculty of Science	8th International Mycological Congress, Cairns Convention Centre, Australia 20th - 25th August 2006 Cairns, Australia	Molecular Studies Support the Interfertility Data in Solving Taxonomic Problems of Ganoderma Boninense.
64.	Dr. Shamarina binti Shohaimi Biology Department, Faculty of Science	11th World Congress on Public Health 21st - 25th August 2006 Rio De Janeiro, Brazil	Individual and Area-Based Measures of Socio-Economic Status and Cardiovascular Disease Risk Factors
65.	Dr. Shamsul Bahri Hj Mohd Tamrin Community Health Department, Faculty of Medicine and Health Science	Ergo Future 2006: International Symposium on Past, Present and Future Ergonomics, Occupational Safety and Health 28th - 30th August 2006 Bali, Indonesia	The Association Between Risk Factors and Low Back Pain Among Commercial Vehicle Drivers in Peninsular Malaysia.
66.	Dr. Juliana binti Jalaludin Community Health Department, Faculty of Medicine and Health Science	Ergo Future 2006: International Symposium on Past, Present and Future Ergonomics, Occupational Safety and Health 28th - 30th August 2006 Bali, Indonesia	Indoor Air Quality Inside Buses and Its Implications to Respiratory Health Among Drivers.
67.	Assoc. Prof. Dr. Mohd Yunus bin Abdullah Community Health Department, Faculty of Medicine and Health Science	Ergo Future 2006, International Symposium on Past, Present and Future Ergonomic, Occupational Safety and Health 28th - 30th August 2006 Bali, Indonesia	The Use of Transcutaneous Electro Nerve Stimulation (TENS) in Reducing Electro Spinae Muscle Fatigue Among Commercial Vehicle Drivers.
68.	Assoc. Prof. Dr. Mohd Hassan bin Selamat Information System Department, Faculty of Computer Science and Information Technology	VIPSI-2006 LONDON 31st August - 3rd September. 2006 Knightsbridge, London	Personalization and Recommendation for Automatic Interest Identification in Knowledge Sharing Facilitation.
SEPTEMBER			
69.	Assoc. Prof. Dr. Aminuddin bin Yusoff Sports Academy	South African Sport Science Conference 7 - 9 Sept. 2006 Potchefstroom, South Africa	Sports as a Tourist Attraction : Examining Tourist Profiles and Destination Characteristics.
70.	Assoc. Prof. Dr. Taufiq Yap Yun Hin Chemistry Department, Faculty of Science	9th Eurasia Conference on Chemical Sciences (EuAsC2S-9) 9th - 13th Sept. 2006 Antalya, Turkey	Mechanochemical Modification of Vanadium Phosphate Catalysts for Partial Oxidation of N-Butane
71.	Assoc. Prof. Dr. Irmawati Ramli Chemistry Department, Faculty of Science	9th Eurasia Conference on Chemical Sciences (EuAsC2 S-9) 9th - 13th Sept. 2006 Antalya, Turkey	Influence of Precipitating Agents on the Characteristic of Bismuth Oxide Nanoparticles.
72.	Mdm. Kamziah binti Abd Kudus Forest Management Department, Faculty of Forestry	Royal Statistical Society International Conference 10th - 14th Sept. 2006 Belfast, Ireland	IA Random Effects Model for the Interval Censored Survival Times of Acacia Mangium Plantation.

Table 27: Employees' Participation at International Conferences

Bil.	Nama / Fakulti	Tajuk, Tarikh dan Tempat Seminar	Tajuk Kertas Kerja
73.	Prof. Madya Dr. Raja Noor Zaliha Raja Abd Rahman Jabatan Mikrobiologi, Fakulti Bioteknologi dan Sains Biomolekul	Egyptian First International Conference in Chemistry 11 - 14 Sept. 2006 Cairo, Egypt	Interaction Studies of Putative Chemical Ligands in Binding Sites of Thermostable Lipase from <i>Geobacillus</i> sp. Strain T1.
74.	Prof. Dr. Mahiran Basri Jabatan Kimia, Fakulti Sains	Egyptian First International Conference in Chemistry 11 - 14 Sept. 2006 Cairo, Egypt	Lipase-Catalyzed Synthesis of Betulinic Acid Esters in Organic Solvent.
75.	Dr. Faieza binti Abdul Aziz Jabatan Kejuruteraan Mekanikal dan Pembuatan, Fakulti Kejuruteraan	Human Computer Interaction 2006 11 - 15 Sept. 2006 London, United Kingdom	Simulated Lifting with Visual Feedback.
76.	Prof. Madya Dr. Mohd Saleh bin Jaafar Jab. Kejuruteraan Awam, Fakulti Kejuruteraan	8th International Conference on Computational 12 - 15 Sept. 2006 Las Palmas de Gran Canaria, Spain	Debonding, Slipping and Crushing Effect On Seismic Response of Roller Compacted Concrete Dam.
77.	En. Zamir Aimaduddin bin Zulkefli Jabatan Kejuruteraan Mekanikal & Pembuatan, Fakulti Kejuruteraan	2nd International Conference on Engineering Failure Analysis (ICEFA-II) 12-15 Sept. 2006 Toronto, Canada	Prosess Zone size at Fretting Fatigue Contact Edge: Strain Energy Density Model.
78.	Prof. Madya Dr. Arifah binti Abdul Kadir Jabatan Sains Praktikal Veterinar, Fak. Perubatan Veterinar	10th European Association for Veterinary Pharmacology and Toxicology (EAVPT) International Congress 17 - 22 Sept. 2006 44 Grugliasco (Torino), Italy	1. Analgesic and antipyretic activity of <i>Channa</i> spp. Extract in mice. 2. Amino acid and fatty acid compositions of the aqueous extract of <i>Channa striatus</i> .
79.	Prof. Madya Dr. Mohd Hair bin Bejo Jabatan Patologi dan Mikrobiologi Veterinar, Fakulti Perubatan Veterinar	XIIth AAAP Animal Science Congress 2006 18 - 22 Sept. 2006 Busan, Korea	The Potential Threats of Immunosuppressive Diseases in the Health and Production of Chickens.
80.	Prof. Madya Dr. Loh Teck Chwen Jabatan Sains Haiwan, Fakulti Pertanian	The XIIth AAAP Animal Science Congress 2006 18 - 22 Sept. 2006 Busan, Korea	Effect of Feeding Metabolite From <i>Lactobacillus Plantarum</i> UL-4 on Growth Performance, Microflora Changes and Intestinal Morphology in Broiler.
81.	Dr. Eusni Rahayu binti Mohd Tohit Jabatan Patologi, Fakulti Perubatan dan Sains Kesihatan	The 4th Asia Pacific Congress of Hemostasis & Thrombosis 19 - 24 Sept. 2006 Suzhou, China	Pulmonary Hypertension and Protein S Deficiency: a Case Report.
82.	Prof. Dr. Nor Aini Ab Shukor Jabatan Pengeluaran Hutan, Fakulti Perhutanan	2nd International Conference of Environmental-Compatible Forest Products 20 - 22 Sept 2006 Oporto, Portugal	1. Effects of site Preparation on Multiple-Leader Formation of Selected <i>Acacia mangium</i> and <i>Acacia auriculiformis</i> Genotypes. 2. Evaluation of Selected Physical and Mechanical Properties of Multiple-Leader <i>Acacia mangium</i> Wild Genotypes.
83.	Dr. Ahmad Fauzi Abas Jab.Kejuruteraan Sistem Komputer dan Komuniti, Fakulti Kejuruteraan	32nd European Conference on Optical Communication 2006 24 - 28 Sept. 2006 Cannes, Perancis	2.38 Tb/s (16x160 Gb/s) WDM Transmission over 292 km of fiber with 100 km EDFA-spacing and No Raman Amplification.
84.	Puan Ain Nadzimah binti Abdullah Jabatan Bahasa Inggeris, Fakulti Bahasa Moden dan Komunikasi	First Conference on Language Contact in Times of Globalization (TG) 28 - 30 Sept. 2006 Univ. Of Gronigen, Netherlands	Addressing Language Contact Through an Examination of Local and Global Parameters.

No.	Name / Faculty	Title, Date and Venue of the Seminar	Title of Working Paper
73.	Assoc. Prof. Dr. Raja Noor Zaliha Raja Abd Rahman Microbiology Department, Faculty of Biotechnology and Biomolecular Sciences	Egyptian First International Conference in Chemistry 11th - 14th Sept. 2006 Cairo, Egypt	Interaction Studies of Putative Chemical Ligands in Binding Sites of Thermostable Lipase from <i>Geobacillus</i> sp. Strain T1.
74.	Prof. Dr. Mahiran Basri Chemistry Department, Faculty of Science	Egyptian First International Conference in Chemistry 11th - 14th Sept. 2006 Cairo, Egypt	Lipase-Catalyzed Synthesis of Betulinic Acid Esters in Organic Solvent.
75.	Dr. Faieza binti Abdul Aziz Mechanical & Manufacturing Engineering Department, Faculty of Engineering	Human Computer Interaction 2006 11th - 15th Sept. 2006 London, United Kingdom	Simulated Lifting with Visual Feedback.
76.	Assoc. Prof. Dr. Mohd Saleh bin Jaafar Civil Engineering Department, Faculty of Engineering	8th International Conference on Computational 12th - 15th Sept. 2006 Las Palmas de Gran Canaria, Spain	Debonding, Slipping and Crushing Effect On Seismic Response of Roller Compacted Concrete Dam.
77.	Mr. Zamir Aimaduddin bin Zulkefli Mechanical & Manufacturing Engineering Department, Faculty of Engineering	2nd International Conference on Engineering Failure Analysis (ICEFA-II) 12th - 15th Sept. 2006 Toronto, Canada	Process Zone size at Fretting Fatigue Contact Edge: Strain Energy Density Model.
78.	Assoc. Prof. Dr. Arifah binti Abdul Kadir Veterinary Preclinical Sciences Department, Faculty of Veterinary Medicine	10th European Association for Veterinary Pharmacology and Toxicology (EAVPT) International Congress 17th - 22th Sept. 2006 44 Grugliasco (Torino), Italy	1. Analgesic and antipyretic activity of <i>Channa</i> spp. Extract in mice. 2. Amino acid and fatty acid compositions of the aqueous extract of <i>Channa striatus</i> .
79.	Assoc. Prof. Dr. Mohd Hair bin Bejo Veterinary Pathology and Microbiology Department, Faculty of Veterinary Medicine	XIIth AAAP Animal Science Congress 2006 18th - 22th Sept. 2006 Busan, Korea	The Potential Threats of Immunosuppressive Diseases in the Health and Production of Chickens.
80.	Assoc. Prof. Dr. Loh Teck Chwen Animal Science Department, Faculty of Agriculture	The XIIIth AAAP Animal Science Congress 2006 18th - 22th Sept. 2006 Busan, Korea	Effect of Feeding Metabolite From <i>Lactobacillus Plantarum</i> UL-4 on Growth Performance, Microflora Changes and Intestinal Morphology in Broiler.
81.	Dr. Eusni Rahayu binti Mohd Tohit Pathology Department, Faculty of Medicine and Health Science	The 4th Asia Pacific Congress of Hemostasis & Thrombosis 19th - 24th Sept. 2006 Suzhou, China	Pulmonary Hypertension and Protein S Deficiency: a Case Report.
82.	Prof. Dr. Nor Aini Ab Shukor Forestry Products Department, Faculty of Forestry	2nd International Conference of Environmental-Compatible Forest Products 20th - 22nd Sept 2006 Oporto, Portugal	1. Effects of site Preparation on Multiple-Leader Formation of Selected <i>Acacia mangium</i> and <i>Acacia auriculiformis</i> Genotypes. 2. Evaluation of Selected Physical and Mechanical Properties of Multiple-Leader <i>Acacia mangium</i> Wild Genotypes.
83.	Dr. Ahmad Fauzi Abas Computer and Communication System Engineering Department, Faculty of Engineering	32nd European Conference on Optical Communication 2006 24th - 28th Sept. 2006 Cannes, Perancis	2.38 Tb/s (16x160 Gb/s) WDM Transmission over 292 km of fiber with 100 km EDFA-spacing and No Raman Amplification.
84.	Mdm. Ain Nadzimah binti Abdullah English Department, Faculty of Modern Languages and Communication	First Conference on Language Contact in Times of Globalization (TG) 28th - 30th Sept. 2006 Univ. Of Gronigen, Netherlands	Addressing Language Contact Through an Examination of Local and Global Parameters.

Table 27: Employees' Participation at International Conferences

Bil.	Nama / Fakulti	Tajuk, Tarikh dan Tempat Seminar	Tajuk Kertas Kerja
85.	Dr. Mohd Hasmadi bin Ismail Jab. Pengeluaran Hutan, Fakulti Perhutanan	EARSel Special Interest Group on Land Use & Land Cover 28 - 30 Sept. 2006 Bonn, Germany	Forest Area Estimation Using Optical Remote Sensing and Ground Data For a Forest Reserve in P. Malaysia.
OKTOBER			
86.	Dr. Tan Chin Ping Jabatan Teknologi Makanan, Fakulti Sains Teknologi Makanan	4th Euro Fed Lipid Congress - Oils, Fats and Lipids for a Healthier Future 1 - 4 Okt. 2006 Madrid, Spain	1. Preparation and Characterization of Nano-sized Palm-based functional lipid. 2. Melting behavior of oil-in-water emulsions based on soybean oil-palm kernel olein blends.
87.	Prof. Madya Dr. Lai Oi Ming Jabatan Teknologi Bioproses, Fakulti Bioteknologi dan Sains Biomolekul	4th Euro Fed Lipid Congress - Oils, Fats and Lipids for a Healthier Future 1 - 4 Okt. 2006 Madrid, Spain	1. Effect of Lipase-Catalyzed Interesterification on the Triacylglycerol Profiles of Palm Oil, Palm Kernel Oil and Their Binary Blends. 2. Physico-chemical Properties and Chemical Composition of Some Tropical Seed Oils.
88.	Dr. Afida binti Mohamad Ali Jabatan Bahasa Inggeris, Fakulti Bahasa Moden dan Komunikasi	The 12th Annual Conference of the International Association for World Englishes, Theory & Application: World Englishes in World Contexts 2006 7 - 9 Oktober 2006 Chukyo University, Japan	Semantic Fields in the Problems/ Solution Patterns of Malaysian and British Business Journalistic Discourse.
89.	Dr. Aidy bin Ali Jabatan Kejuruteraan Mekanikal dan Pembuatan, Fakulti Kejuruteraan	6th International Symposium Friction Stir Welding 9 - 14 Oktober 2006 Montreal, Canada	Crack Coalescence And Growth In Aircraft Stir Welded Joints.
90.	Prof. Dr. Wan Md. Zin bin Wan Yunus Fakulti Sains	IUPAC International Symposium on Advanced Polymers for Emerging Technologies: 30th Anniversary of the Polymer Society of Korea 10 - 13 Okt. 2006 Busan, Korea	Modification of Oil Palm Empty Fruit Bunch Fiber by Graft Copolymerization.
91.	Dr. Jegatheswaran Ratnasingam Jabatan Pengeluaran Hutan, Fakulti Perhutanan	10th European Panel Product Symposium 11 - 13 Okt. 2006 Wales, United Kingdom	1. Optimal Surface Smoothness Regimes for Rubberwood Medium Density Fiberboard. 2. Value Adding Strategies for Wood-Based Panels Manufacturing in South East Asia (poster).
92.	Prof. Madya Dr. Abdullah bin Mohd Jabatan Pengurusan Hutan, Fakulti Perhutanan	The 9th World Leisure Congress 2006 15 - 20 Okt. 2006 Hangzhou, China	Ecotourism co-Management For Protected Area : a Proposition For Good Governance Based On Participatory Arrangement Between Park Administration and Local Operatives In Pahang National Park, Malaysia.
93.	Dr. Zalilah binti Mohd Shariff Jabatan Pemakanan dan Dietetik Fakulti Perubatan dan Sains Kesehatan	Joint 8th IUNS-International Symposium on Clinical Nutrition (ISCN) and 5th Asia-Pacific Clinical Nutrition Society (APCNS) Conference 2006 15 - 18 Okt. 2006 Hangzhou, Zhejiang Province, China	Development of Coping Strategy Index (CSI) to Measure Household Food Insecurity.

No.	Name / Faculty	Title, Date and Venue of the Seminar	Title of Working Paper
85.	Dr. Mohd Hasmadi bin Ismail Forestry Products Department, Faculty of Forestry	EARSel Special Interest Group on Land Use & Land Cover 28th - 30th Sept. 2006 Bonn, Germany	Forest Area Estimation Using Optical Remote Sensing and Ground Data For a Forest Reserve in P. Malaysia.
OCTOBER			
86.	Dr. Tan Chin Ping Food Technology Department, Faculty of Food Science and Technology	4th Euro Fed Lipid Congress - Oils, Fats and Lipids for a Healthier Future 1st - 4th Oct. 2006 Madrid, Spain	1. Preparation and Characteriza-tion of Nano-sized Palm-based functional lipid. 2. Melting behavior of oil-in-water emulsions based on soybean oil-palm kernel olein blends.
87.	Assoc Prof. Dr. Lai Oi Ming Bioprocess Technology Department, Faculty of Biotechnology and Biomolecular Sciences	4th Euro Fed Lipid Congress - Oils, Fats and Lipids for a Healthier Future 1st - 4th Oct. 2006 Madrid, Spain	1. Effect of Lipase-Catalyzed Interesterifica-tion on the Triacy lglycerol Profiles of Palm Oil, Palm Kernel Oil and Their Binary Blends. 2. Physico-chemical Properties and Chemical Composition of Some Tropical Seed Oils.
88.	Dr. Afida binti Mohamad Ali English Department, Faculty of Modern Languages and Communication	The 12th Annual Conference of the International Association for World Englishes, Theory & Application: World Englishes in World Contexts 2006 7th - 9th October 2006 Chukyo University, Japan	Semantic Fields in the Problems/ Solution Patterns of Malaysian and British Business Journalistic Discourse.
89.	Dr. Aidy bin Ali Mechanical Engineering and Manufacturing Engineering Department, Faculty of Engineering	6th International Symposium Friction Stir Welding 9th - 14th October 2006 Montreal, Canada	Crack Coalescence And Growth In Aircraft Stir Welded Joints.
90.	Prof. Dr. Wan Md. Zin bin Wan Yunus Faculty of Science	IUPAC International Symposium on Advanced Polymers for Emerging Technologies: 30th Anniversary of the Polymer Society of Korea 10 - 13 Okt. 2006 Busan, Korea	Modification of Oil Palm Empty Fruit Bunch Fiber by Graft Copolymerization.
91.	Dr. Jegatheswaran Ratnasingam Forestry Products Department, Faculty of Forestry	10th European Panel Product Symposium 11th - 13th October 2006 Wales, United Kingdom	1. Optimal Surface Smoothness Regimes for Rubberwood Medium Density Fiberboard. 2. Value Adding Strategies for Wood-Based Panels Manufacturing in South East Asia (poster).
92.	Assoc Prof. Dr. Abdullah bin Mohd Forestry Management Department, Faculty of Forestry	The 9th World Leisure Congress 2006 15th - 20th October 2006 Hangzhou, China	Ecotourism co-Management For Protected Area : a Proposition For Good Governance Based On Participatory Arrangement Between Park Administration and Local Operatives In Pahang National Park, Malaysia.
93.	Dr. Zalilah binti Mohd Shariff Nutrition and Dietetics Department, Faculty of Medicine and Health Science	Joint 8th IUNS-International Symposium on Clinical Nutrition (ISCN) and 5th Asia-Pasific Clinical Nutrition Society (APCNS) Conference 2006 15th - 18th October. 2006 Hangzhou, Zhejiang Province, China	Development of Coping Strategy Index (CSI) to Measure Household Food Insecurity.

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Bil.	Nama / Fakulti	Tajuk, Tarikh dan Tempat Seminar	Tajuk Kertas Kerja
94.	Prof. Madya Dr. Sabrina binti Sukardi Jabatan Sains Bioperubatan, Fakulti Perubatan dan Sains Kesihatan	6th Congress of the Federation of Asian and Oceanian Physiological Societies (FAOPS) 15 - 18 Okt. 2006 Seoul, Korea Selatan	The Influence of Cryoprotective Media and Incubation Time on Human Sperm Motility and Plasma Membrane Integrity Using the Hypoosmotic Swelling Test.
95.	Prof. Madya Dr. Amin bin Ismail Jabatan Pemakanan dan Dietetik, Fakulti Perubatan dan Sains Kesihatan	3rd International Conference on Polyphenols Applications in Nutrition and Health 26 - 27 Okt. 2006 La Valetta, Malta	Functional Components of Roselle (Hibiscus Sabdariffa) Seeds
96.	Dr. Imad (Moh'd Khair) Rashid Hamadneh Jabatan Kimia, Fakulti Sains	The 19th International Symposium on superconduc-tivity ISS2006 30 Okt. - 1 Nov. 2006 Nagoya, Jepun	Superconducting Properties of Bulk Bi1.4Pb0.4Sr2Ca2-xCdxCu3O10 System Prepared Via Conventional Solid state and Coprecipitation Methods.
NOVEMBER			
97.	Prof. Madya Rusinah binti Joned Jabatan Pemajuan Profesional dan Pendidikan Lanjutan, Fakulti Pengajian Pendidikan	AAACE annual Conference -Festival of Learning : A Celebration of Adult Education (CIACE) - Pre-Conference 5 - 10 Nov. 2006 Wisconsin, USA	Wisconsin, USA On-Farm Training Program : A Trigger Point of Transformation.
98.	Prof. Madya Dr. Norman Mariun Jabatan Kejuruteraan Elektrik Elektronik, Fakulti Kejuruteraan	10th IANGV International Association for Natural Gas Vehicles Conference and Exhibition : NGV2006 Live in a Clean Environment 7 - 9 Nov 2006 Cairo, Egypt	Testing and Optimization of Ignition System Parameters inside CNG-DI Engine.
99.	Prof. Madya Dr. Azmi bin Yahya Jabatan Kejuruteraan Biologi dan Pertanian, Fakulti Kejuruteraan	Fakulti Kejuruteraan 5th Conference of Asian Federation for Information Technology in Agriculture (AFITA2006) 9 - 11 Nov. 2006 Bangalore, India	Design and Development of a Rice Combine Harvester Instrument System for Crop Yield and Field Performance Mapping.
100.	Prof. Dr. Maimunah binti Ismail Jabatan Pemajuan Profesional dan Pendidikan Lanjutan Fakulti Pengajian Pendidikan	The Inaugural International Women and Leadership Conference 2006 16 - 17 Nov. 2006 Perth, Australia	Women Professors Leading the Way : Uniqueness of A Academic Career in Higher Education
101.	Dr. Soh Kim Geok Jabatan Pengajian Sukan, Fakulti Pengajian Pendidikan	New Zealand Sports Medicine & Science Conference 2006 16 - 18 Nov. 2006 Wellington, New Zealand	Physical Characteristics of Elite Malaysian Netball Players in Relation to their Playing Skill.
102.	Prof. Madya Dr. Abdul Manan Mat Jais Jabatan Sains Bioperubatan, Fakulti Perubatan dan Sains Kesihatan	FAPRONATURA 2006 - First International Symposia about pharmacology of Natural Products and BLACPMA 19 - 25 Nov 2006 Varadero, Cuba	Commercialization of Haruan Channa Striatus Biomedical Products.
103.	Dr. Abd Rauf bin Dato' Hj Hassan Jabatan Bahasa Asing, Fakulti Bahasa Moden dan Komunikasi Bahasa dan Sastera Arab Kanak-kanak	21 - 23 Nov. 2006 Amman, Jordan	Isu Penerbitan Kamus Arab Kanak-kanak di Malaysia : Satu Kajian Terhadap Kamus 3 Bahasa Bahasa Melayu-Inggeris-Arab.
104.	Pn. Zalina binti Shari Jabatan Senibina, Fakulti Rekabentuk dan Senibina	ANZAScA 2006 40th annual Conference 'Challenges for Architectural Science in Changing Climates' 22 - 25 Nov. 2006 University of Adelaide, Australia	Intergration and Implementation of Sustainability in Malaysian Architectural Education.

No.	Name / Faculty	Title, Date and Venue of the Seminar	Title of Working Paper
94.	Assoc. Prof. Dr. Sabrina binti Sukardi Biomedical Science Department, Faculty of Medicine and Health Science	6th Congress of the Federation of Asian and Oceanian Physiological Societies (FAOPS) 15th - 18th Oct. 2006 Seoul, Korea Selatan	The Influence of Cryoprotective Media and Incubation Time on Human Sperm Motility and Plasma Membrane Integrity Using the Hypoosmotic Swelling Test.
95.	Assoc. Prof. Dr. Amin bin Ismail Eating and Dietetic Department, Faculty of Medicine and Health Science	3rd International Conference on Polyphenols Applications in Nutrition and Health 26th - 27th Oct. 2006 La Valetta, Malta	Functional Components of Roselle (Hibiscus Sabdariffa) Seeds
96.	Dr. Imad (Moh'd Khair) Rashid Hamadneh Chemistry Department, Faculty of Science	The 19th International Symposium on superconduc-tivity ISS2006 30th Oct. - 1st Nov. 2006 Nagoya, Jepun	Superconducting Properties of Bulk Bi _{1.4} Pb _{0.4} Sr ₂ Ca _{2-x} CdxCu ₃ O ₁₀ System Prepared Via Conventional Solid state and Coprecipitation Methods.
NOVEMBER			
97.	Assoc. Prof. Dr. Rusinah binti Joned Professional Development and Continuing Education Department, Faculty of Educational Studies	AAACE annual Conference -Festival of Learning : A Celebration of Adult Education (CIACE) - Pre-Conference 5th - 10th Nov. 2006 Wisconsin, USA	Wisconsin, USA On-Farm Training Program : A Trigger Point of Transformation.
98.	Assoc. Prof. Dr. Norman Mariun Electrical and Electronic Engineering Faculty of Department, Faculty of Engineering	10th IANGV International Association for Natural Gas Vehicles Conference and Exhibition : NGV2006 Live in a Clean Environment 7th - 9th Nov 2006 Cairo, Egypt	Testing and Optimization of Ignition System Parameters inside CNG-DI Engine.
99.	Assoc. Prof. Dr. Azmi bin Yahya Biological and Agriculture Engineering Department, Faculty of Engineering	5th Conference of Asian Federation for Information Technology in Agriculture (AFITA2006) 9th - 11th Nov. 2006 Bangalore, India	Design and Development of a Rice Combine Harvester Instrument System for Crop Yield and Field Performance Mapping.
100.	Prof. Dr. Maimunah binti Ismail Professional Development and Continuing Education Department, Faculty of Educational Studies	The Inaugural International Women and Leadership Conference 2006 16th - 17th Nov. 2006 Perth, Australia	Women Professors Leading the Way : Uniqueness of A Academic Career in Higher Education
101.	Dr. Soh Kim Geok Sports Studies Department, Faculty of Educational Studies	New Zealand Sports Medicine & Science Conference 2006 16th - 18th Nov. 2006 Wellington, New Zealand	Physical Characteristics of Elite Malaysian Netball Players in Relation to their Playing Skill.
102.	Assoc. Prof. Dr. Abdul Manan Mat Jais Biomedical Science Department, Faculty of Medicine and Health Science	FAPRONATURA 2006 - First International Symposia about pharmacology of Natural Products and BLACPMA 19th - 25th Nov 2006 Varadero, Cuba	Commercialization of Haruan Channa Striatus Biomedical Products.
103.	Dr. Abd Rauf bin Dato' Hj Hassan Foreign Language Department, Faculty of Modern Languages and Communication	21st - 23rd Nov. 2006 Amman, Jordan	Publishing of the Children's Arabic Dictionary in Malaysia Issue : A Study on a 3-language dictionary; Bahasa Melayu-English-Arabic
104.	Mdm. Zalina binti Shari Architecture Department, Faculty of Design and Architecture	ANZAScA 2006 40th annual Conference 'Challenges for Architectural Science in Changing Climates' 22nd - 25th Nov. 2006 University of Adelaide, Australia	Intergration and Implementation of Sustainability in Malaysian Architectural Education.

Table 27: Employees' Participation at International Conferences

Bil.	Nama / Fakulti	Tajuk, Tarikh dan Tempat Seminar	Tajuk Kertas Kerja
105.	Dr. Norhasni binti Zainal Abiddin Jabatan Pemajuan Profesional dan Pendidikan Lanjutan, Fakulti Pengajian Pendidikan	Fakulti Pengajian Pendidikan The Asia-Pacific Educational Research Association Conference 2006 28 - 30 Nov. 2006 Hong Kong	Graduate Research Student Policy : A Study of United Kingdom Universities Practices.
106.	Othman bin Talib Jabatan Sains dan Pendidikan Teknikal, Fakulti Pengajian Pendidikan	The 14th International Conference on Computers in Education (ICCE 2006) 30 Nov. - 4 Dis. 2006 Beijing, China	Using Systematic Animation To Teach Dynamic Science Concepts.
107.	Prof. Madya Dr. Wan Zah binti Wan Ali Jabatan Asas Pendidikan, Fakulti Pengajian Pendidikan	International Conference on Computers in Education (ICCE 2006) 30 Nov. - 4 Dis. 2006 Beijing, China	Conditions Facilitating The Implementation of Information Communication Technology Integration in Malaysian Smart School.
DISEMBER			
108.	Prof. Madya Dr. Muhammad Nazrul Hakim @ Somchit Jabatan Sains Bioperubatan, Fakulti Perubatan dan Sains Kesihatan	15th Annual Meeting of the Society for Free Radical Research, Australasia 1 - 4 Dis. 2006 Perth, Australia	Reduction of Antioxidant Status in Hepatotoxicity Induced by Anti-Fungal Drug Itraconazole.
109.	Prof. Madya Dr. Tan Hui Boon Jabatan Ekonomi, Fakulti Ekonomi dan Pengurusan	The 5th International Conference of Japan Economic Policy Association 2 - 3 Disember 2006 Tokyo, Japan	Economic Integration, FDI and ASEAN-Japan Trade Flows.
110.	Prof. Madya Dr. Noorhana binti Yahya Jabatan Fizik, Fakulti Sains	4th Asia Pasific Congress on Catalysis 6 - 8 Disember 2006 Nanyang Technological University, Singapore	The Effect of Fe2O3 Catalysis On the Diameter of the Carbon Nanotubes.
111.	Dr. Yong Mei Fung Jabatan Bahasa Inggeris, Fakulti Bahasa Moden dan Komunikasi	2006 Tertiary Writing Network Colloquium 7 - 8 Dis. 2006 Napier, New Zealand	After Collaborative Experience: A Changed Perspective.
112.	Prof. Dr. Sundrarajan Thilagar Jabatan Pengajian Klinik Veterinar, Fakulti Perubatan Veterinar	International Conference on Design of Biomaterials (BIND-06) and Annual Meeting of SBAOI 8 - 11 Dis. 2006 IIT - Kanpur, India	Use of Biomaterials, Keratin and bFGF -gelatin composite film as a Full Thickness Skin mesh graft in experimental dogs.
113.	Prof. Madya Dr. Rosli bin Talif Jabatan Bahasa Inggeris, Fakulti Bahasa Moden dan Komunikasi	11th ESEA (English in South East Asia) Conference 12 - 14 Disember 2006 Perth, Australia	An Absolute Necessity for the 21st Century.
114.	Prof. Madya Ir. Dr. Mohd Sapuan bin Salit @ Sinon Jabatan Kejuruteraan Mekanikal dan Pembuatan, Fakulti Kejuruteraan	7th Asia Pasific Industrial Engineering and Management Systems Conference 17 - 20 Disember 2006 Bangkok, Thailand	Composite Product Decelopment Using Fused Deposition Modelling.
115.	Prof. Madya Dr. Jamaloddin bin Noorzaei Jabatan Kejuruteraan Awam, Fakulti Kejuruteraan	13th Symposium on Earthquake Engineering 19 - 21 Dis. 2006 Roorkee, India	Non-Linear Seismic Response of Kinta RCC Dam.

Jadual 27: Penyertaan Staf Ke Persidangan Antarabangsa

Selain menggunakan peruntukan Universiti yang sedia ada, pegawai akademik juga boleh menggunakan peruntukan daripada geran penyelidikan untuk membiayai perjalanan ke luar negara tertakluk kepada kelayakan dan syarat-syarat tertentu yang ditetapkan. Perjalanan ke luar negara bermaksud untuk menghadiri acara seperti seminar / konferensi / bengkel / lawatan teknikal / kongres / simposium / kolokium / persidangan yang berkaitan dengan projek penyelidikan yang dijalankan serta lawatan rasmi (yang diarahkan oleh pihak berkuasa).

Pada tahun 2006, seramai 76 staf akademik telah ke luar negara untuk menghadiri acara seperti yang disenaraikan dalam **Jadual 28**.

No.	Name / Faculty	Title, Date and Venue of the Seminar	Title of Working Paper
105.	Dr. Norhasni binti Zainal Abiddin Professional Development and Continuing Studies Department, Faculty of Educational Studies	Research Association Conference 2006 28th - 30th November 2006 Hong Kong	Graduate Research Student Policy : A Study of United Kingdom Universities Practices.
106.	Othman bin Talib Science and Technical Education Department, Faculty of Educational Studies	The 14th International Conference on Computers in Education (ICCE 2006) 30th Nov. - 4th Dec. 2006 Beijing, China	Using Systematic Animation To Teach Dynamic Science Concepts.
107.	Assoc. Prof. Dr. Wan Zah binti Wan Ali Foundation of Education Department, Faculty of Educational Studies	International Conference on Computers in Education (ICCE 2006) 30th Nov. - 4th Dec. 2006 Beijing, China	Conditions Facilitating The Implementation of Information Communication Technology Integration in Malaysian Smart School.
DECEMBER			
108.	Assoc. Prof. Dr. Muhammad Nazrul Hakim @ Somchit Biomedical Science Department, Faculty of Medicine and Health Science	15th Annual Meeting of the Society for Free Radical Research, Australasia 1st - 4th Dec. 2006 Perth, Australia	Reduction of Antioxidant Status in Hepatotoxicity Induced by Anti-Fungal Drug Itraconazole.
109.	Assoc. Prof. Dr. Tan Hui Boon Economy Department, Faculty of Economics and Management	The 5th International Conference of Japan Economic Policy Association 2nd - 3rd December 2006 Tokyo, Japan	Economic Integration, FDI and ASEAN-Japan Trade Flows.
110.	Assoc. Prof. Dr. Noorhana binti Yahya Physics Department, Faculty of Science	4th Asia Pasific Congress on Catalysis 6th - 8th December 2006 Nanyang Technological University, Singapore	The Effect of Fe ₂ O ₃ Catalysis On the Diameter of the Carbon Nanotubes.
111.	Dr. Yong Mei Fung English Department, Faculty of Modern Languages and Communication	2006 Tertiary Writing Network Colloquium 7th - 8th Dec. 2006 Napier, New Zealand	After Collaborative Experience: A Changed Perspective.
112.	Prof. Dr. Sundrarajan Thilagar Veterinary Clinical Studies Department, Faculty of Veterinary Medicine	International Conference on Design of Biomaterials (BIND-06) and Annual Meeting of SBAOI 8th - 11th Dec. 2006 IIT - Kanpur, India	Use of Biomaterials, Keratin and bFGF -gelatin composite film as a Full Thickness Skin mesh graft in experimental dogs.
113.	Assoc. Prof. Dr. Rosli bin Talif English Department, Faculty of Modern Languages and Communication	11th ESEA (English in South East Asia) Conference 12th - 14th December 2006 Perth, Australia	An Absolute Necessity for the 21st Century.
114.	Assoc. Prof. Ir. Dr. Mohd Sapuan bin Salit @ Sinon Mechanical and Manufacturing Engineering, Faculty of Engineering	7th Asia Pasific Industrial Engineering and Management Systems Conference 17th - 20th December 2006 Bangkok, Thailand	Composite Product Development Using Fused Deposition Modelling.
115.	Assoc. Prof. Dr. Jamaluddin bin Noorzaei Civil Engineering Department, Faculty of Engineering	13th Symposium on Earthquake Engineering 19th - 21st Dec. 2006 Roorkee, India	Non-Linear Seismic Response of Kinta RCC Dam.

Table 27: Employees' Participation at International Conferences

Other than tapping the allocations made by the University, Academic Officers can also request access to the funds from the Research Grants to cover overseas travelling expenses, based on the terms and conditions stipulated. Such overseas traveling includes attending events like Seminars / Conferences / Workshops/ Technical Visits / Congresses / Symposiums / Colloquiums i.e. events that are related to the research projects conducted and also formal visits (as requested by the authorities).

In 2006, an overall number of 76 academic staff went abroad to attend events as listed in the **Table 28**.

Bil.	Nama / Fakulti	Tajuk, Tarikh dan Tempat Seminar	Tujuan / Tajuk Kertas Kerja
JANUARI			
1.	Prof. Dr Zaidatol Akmaliah Lope Pihie Prof. Madya Dr Rahil Mahyuddin Dr. Jamaliah Abdul Hamid Fakulti Pengajian Pendidikan	National University of Singapore 23 - 27 Januari, 2006	Lawatan ke National University of Singapore (berkaitan dengan dapatan kajian IRPA - Evaluation of Teaching and learning in Business Programme Using Service Quality Factors) untuk menubuhkan Centre of Excellence for Teaching and Learning.
MAC			
2.	Prof. Madya Dr Fakhru'l-Razi Ahmadun En. Mohamad Amran Mohd. Salleh Dr Salmiaton Ali Fakulti Kejuruteraan	University of British Columbia University of Western Ontario, Kanada 4 - 12 Mac 2006	Lawatan di bawah projek bertajuk "Natural gas storage for direct fuel NGV engine injection".
3.	Dr Syed Javaid Iqbal Fakulti Kejuruteraan	Pakistan Institute of Physics International Conference 2006, Lahore, Pakistan 13 - 16 Mac 2006	
4.	En. Mohamad Fazli Sabri Fakulti Ekologi Manusia	52nd American Council on Consumer Interest (ACCI) Annual Conference, Baltimore, Maryland, USA 15 - 18 Mac 2006	
5.	Prof. Madya Dr Ab. Rahim Bakar Fakulti Pengajian Pendidikan	17th Society for Information Technology and Teacher Education International Conference, Orlando, Florida 20 - 24 Mac 2006	
6.	Puan Tan Bee Hoon Fakulti Bahasa Moden dan Komunikasi	Student Learning Centre, Massey University of New Zealand. 20 Mac - 30 April 2006	Lawatan ini adalah sebahagian aktiviti penyelidikan di bawah projek bertajuk "The Applicability of Writing Center Approach in Malaysia Tertiary Education".
7.	Prof. Madya Dr. Norman Mariun Fakulti Kejuruteraan	International Conference on Energy and Power System (EPS 2006) Chiang Mai, Thailand 29-31 Mac. 2006	Design of a Single Phase High Voltage DC Power Supply at 15 KV Output Using Voltage Doubler Circuit.
APRIL			
8.	Prof. Madya Dr Tengku Aizan Tengku Abd. Hamid Institut Gerontologi	National University of Singapore 23 - 27 Januari, 2006	Lawatan ke National University of Singapore (berkaitan dengan dapatan kajian IRPA - Evaluation of Teaching and learning in Business Programme Using Service Quality Factors) untuk menubuhkan Centre of Excellence for Teaching and Learning).
9.	Prof. Madya Dr Nurizan Yahya Institut Gerontologi	Geriatrics 2006 International Congress of Elderly Health, Istanbul, Turki 2 - 6 April, 2006	
10.	Dr. Jamaliah Abd. Hamid Fakulti Pengajian Pendidikan	University Teaching and Learning Centre (UTLC) University of North Carolina, Greensboro 16 - 22 April, 2006	Program lawatan.

No.	Name / Faculty	Title, Date and Venue of the Seminar	Purpose / Title of Working Paper
JANUARY			
1.	Prof. Dr Zaidatul Akmaliah Lope Pihie Dr. Jamaliah Abdul Hamid Assoc. Prof. Dr Rahil Mahyuddin Faculty of Educational Studies	National University of Singapore 23rd - 27th January, 2006	A visit to the National University of Singapore (connected to the IRPA research findings- Evaluation of Teaching and Learning in Business Programmes Using Service Quality Factors) in order to build the Centre For Excellence for Teaching and Learning.
MARCH			
2.	Assoc. Prof. Dr Fakhru'l-Razi Ahmadun Mr. Mohamad Amran Mohd. Salleh Dr Salmiaton Ali Faculty of Engineering	University of British Columbia University of Western Ontario, Kanada 4th - 12th March 2006	Visit under the project titled "Natural gas storage for direct fuel NGV engine injection".
3.	Dr Syed Javaid Iqbal Faculty of Engineering	Pakistan Institute of Physics International Conference 2006, Lahore, Pakistan 13th - 16th March 2006	
4.	Mr. Mohamad Fazli Sabri Faculty of Human Ecology	52nd American Council on Consumer Interest (ACCI) Annual Conference, Baltimore, Maryland, USA 15th - 18th March 2006	
5.	Assoc. Prof. Dr Ab. Rahim Bakar Faculty of Educational Studies	17th Society for Information Technology and Teacher Education International Conference, Orlando, Florida 20th - 24th March 2006	
6.	Mrs. Tan Bee Hoon Faculty of Modern Languages and Communication	Student Learning Centre, Massey University of New Zealand. 20th March - 30th April 2006	This visit is part of the research activity under the project named "The Applicability of the Writing Centre Approach in Malaysia Tertiary Education".
7.	Assoc. Prof. Dr. Norman Mariun Faculty of Engineering	International Conference on Energy and Power System (EPS 2006) Chiang Mai, Thailand 29th - 31st March. 2006	Design of a Single Phase High Voltage DC Power Supply at 15 KV Output Using Voltage Doubler Circuit.
APRIL			
8.	Assoc. Prof. Dr Tengku Aizan Tengku Abd. Hamid Institute of Gerontology	Geriatrics 2006 International Congress on Elderly Health, Istanbul, Turkey 2nd - 6th April 2006	
9.	Assoc. Prof. Dr Nurizan Yahya Institute of Gerontology	Geriatrics 2006 International Congress on Elderly Health, Istanbul, Turkey 2nd - 6th April 2006	
10.	Dr. Jamaliah Abd. Hamid Faculty of Educational Studies	University Teaching and Learning Centre (UTLC) University of North Carolina, Greensboro 16 - 22 April, 2006	Visiting Programme

Table 28 : Academic Officers' Participation at Seminars/ Conferences / Workshops / Overseas Visits using allocations from the Research Grant for 2006

Bil.	Nama / Fakulti	Tajuk, Tarikh dan Tempat Seminar	Tujuan / Tajuk Kertas Kerja
11.	Prof. Madya Dr. Rahil Mahyudin Fakulti Pengajian Pendidikan	University Teaching and Learning Centre (UTLC) University of North Carolina, Greensboro 16 - 22 April, 2006	Program lawatan.
12.	Prof Dr. Zaidatul Akmaliah Lope Pihie Fakulti Pengajian Pendidikan	University Teaching and Learning Centre (UTLC) University of North Carolina, Greensboro 16 - 22 April, 2006	Program lawatan.
13.	Prof. Dr Borhanuddin Mohd Ali Fakulti Kejuruteraan	2nd IEEE International Conference on Information and Communication Technologies : From Theory to Application (ICTTA06) Damascus, Syria 23-27 April 2006	An Adaptive UWB Waveform with Spectral Sharing Capability.
MEI			
14.	Prof. Dato Dr. Mohamed Shariff Mohamed Din Fakulti Perubatan Veterinar	AQUA 2006 Florence, Italy 8-14 Mei, 2006	Survival and Growth of Penaeus Monodon Postarvae Fed Commercial Shrimp Feed Supplemented with Freeze Dried Native Marine Bacillus Spp. And Microalgae.
15.	Dr Soh Kim Geok Fakulti Pengajian Pendidikan	World Conference on Women and Sport 2006, Kumamoto, Jepun 11 - 14 Mei 2006	
16.	Prof. Madya Dr Thomas Choong Shean Yaw Fakulti Kejuruteraan	33rd International Conference of Slovak Society of Chemical Engineering, Tatranske Matliare, Slovakia 22 - 26 Mei 2006	
17.	Prof. Madya Dr. Ali Mamat Fakulti Sains Komputer dan Teknologi Maklumat	International Conference on Computational Science 2006 United Kingdom 28-31 Mei, 2006	Managing Data Using Neighbor Replication on Triangular Grid Structure
JUN			
18.	Prof. Madya Dr. Rozita Rosli Fakulti Perubatan dan Sains Kesihatan	Ethical Issues in International Health Research Workshop Boston, USA 12-16 Jun 2006 N/A	N/A
19.	Prof Madya Dr. Wan Zah Wan Ali Institut Penyelidikan Matematik	The 1st International Conference on Mathematics and Statistics Bandung, Indonesia 19-21 Jun 2006	Malaysian Mathematics Teachers' Perception Towards the Nature and Implementation of Mathematical Values.
20.	Prof. Madya Dr. Fudziah Ismail Fakulti Sains	The First International Conference on Mathematics and Statistics Bandung, Indonesia 19-21 Jun 2006	A New Embedded Pair of Diagonally Implicit Runge-Kutta.
21.	Prof. Madya Dr. Noor Akma Ibrahim Institut Penyelidikan Matematik	The First International Conference on Mathematics and Statistics Bandung, Indonesia 19-21 Jun 2006	Group Method of Data Handling in Economic Evaluation of Air pollution Data.
22.	Prof. Madya Dr. Rohani Ahmad Tarmizi Institut Penyelidikan Matematik	The First International Conference on Mathematics and Statistics Bandung, Indonesia 19-21 Jun 2006	Do Mathematical Beliefs Influence Mathematics Teaching Practices Among Malaysian Secondary School Teachers ?

No.	Name / Faculty	Title, Date and Venue of the Seminar	Purpose / Title of Working Paper
11.	Assoc. Prof. Dr. Rahil Mahyudin Faculty of Educational Studies	University Teaching and Learning Centre (UTLC) University of North Carolina, Greensboro 16 - 22 April, 2006	Visiting Programme
12.	Prof Dr. Zaidatul Akmaliah Lope Pihie Faculty of Educational Studies	University Teaching and Learning Centre (UTLC) University of North Carolina, Greensboro 16 - 22 April, 2006	Visiting Programme
13.	Prof. Dr Borhanuddin Mohd Ali Faculty of Engineering	2nd IEEE International Conference on Information and Communication Technologies : From Theory to Application (ICTTA06) Damascus, Syria 23-27 April 2006	An Adaptive UWB Waveform with Spectral Sharing Capability.
MAY			
14.	Prof. Dato Mohamed Shariff Mohamed Din Faculty of Veterinary Medicine	AQUA 2006 Florence, Italy 8th - 14th May 2006	Survival and Growth of Penaeus Monodon Postlarvae Fed Commercial Shrimp Feed Supplemented with Freeze Dried Native Marine Bacillus Spp. And Microalgae.
15.	Dr. Soh Kim Geok Faculty of Educational Studies	World Conference on Women and Sports 2006, Kumamoto, Japan 11th - 14th May 2006	
16.	Assoc. Prof. Dr. Thomas Choong Shean Yaw Faculty of Engineering	33rd International Conference of Slovak Society of Chemical Engineering, Tatranske Matliare, Slovakia 22nd - 26th May 2006	
17.	Assoc. Prof. Dr. Ali Mamat Faculty of Computer Science and Information Technology	International Conference on Computational Science 2006, United Kingdom 28th - 31st May 2006	Managing Data Using Neighbour Replication on Triangular Grid Structure.
JUNE			
18.	Assoc. Prof. Dr. Rozita Rosli Faculty of Medicine and Health Science	Ethical Issues in International Health Research Workshop Boston, USA 12th - 16th June 2006	N/A
19.	Assoc. Prof. Dr. Wan Zah Wan Ali Institute of Mathematical Research	The 1st International Conference on Mathematics and Statistics Bandung, Indonesia 19th - 21st June 2006	Malaysian Mathematics Teachers' Perception Towards the Nature and Implementation of Mathematical Values.
20.	Assoc. Prof. Dr. Fudziah Ismail Faculty of Science	The First International Conference on Mathematics and Statistics Bandung, Indonesia 19-21 Jun 2006	A New Embedded Pair of Diagonally Implicit Runge-Kutta.
21.	Assoc. Prof. Dr. Noor Akma Ibrahim Institute of Mathematical Research	The First International Conference on Mathematics and Statistics Bandung, Indonesia 19-21 Jun 2006	Group Method of Data Handling in Economic Evaluation of Air pollution Data.
22.	Assoc. Prof. Dr. Rohani Ahmad Tarmizi Institute of Mathematical Research	The First International Conference on Mathematics and Statistics, Bandung, Indonesia 19th - 21st June 2006	Do Mathematical Beliefs Influence Mathematics Teaching Practices Among Malaysian Secondary School Teachers ?

Table 20 : Academic Officers' Participation at Seminars/ Conferences/ Workshops / Overseas Visits using allocations from the Research Grant for 2006

Bil.	Nama / Fakulti	Tajuk, Tarikh dan Tempat Seminar	Tujuan / Tajuk Kertas Kerja
23.	Prof. Madya Dr. Zailina Hashim Fakulti Perubatan dan Sains Kesehatan	2nd North American Congress of Epidemiology Washington, USA 21-24 Jun 2006	Toluene Exposure and Respiratory Problems Among Spray Painters in an Automotive Industry.
24.	Prof. Dr. Mohd. Zamri Saad Fakulti Perubatan Veterinar	Fifth IMT-GT Biannual Conference and International Seminar 2006 Medan, Indonesia 22-23 Jun 2006	Vaccination against pneumonic mannheimiosis to reduce mortality in sheep.
25.	Prof. Madya Dr. Aida Suraya Binti Md. Yunus Fakulti Pengajian Pendidikan	The 13th International Conference on Learning Montego Bay, Jamaica 22-25 Jun 2006	Necessary Skills for Success in Higher Learning.
26.	Dr. Jamaliah Abd Hamid Fakulti Pengajian Pendidikan	The 13th International Conference on Learning Montego Bay, Jamaica 22-25 Jun 2006	Learner Learning Style As a Response to Lecturer Factor: A Case Study of Business Studies In an Institution of Higher Learning.
27.	Dr. Habsah Ismail Fakulti Pengajian Pendidikan	The 13th International Conference on Learning Montego Bay, Jamaica 22-25 Jun 2006	Teachers, Belief Towards The Principles Underlying The National Philosophy of Education in Malaysia.
28.	Prof. Dr. Borhanuddin Mohd Ali Fakulti Kejuruteraan	4th International Conference on Smart Homes and Health Telematics (ICOST 2006) Ulster, UK 25-29 Jun 2006	An Automatic Driver Deployment Mechanism in the OSGi Gateway for Smart Home.
29.	Prof. Madya Ab. Rahim Bakar Fakulti Pengajian Pendidikan	ED-MEDIA 2006 World Conference on Educational Multimedia, Hypermedia & Telecommunications Orlando, Florida 26-30 Jun 2006	Teaching Using ICT : Can They Do It ?
JULAI			
30.	Prof. Madya Dr. Wong Show Voon Fakulti Kejuruteraan	International Crashworthiness Conference Athens, Greece 4-7 Julai 2006	<ul style="list-style-type: none"> - Design of Motorcyclist Guardrail Using Finite Element Analysis. - Crashes Along Motorcycle Lanes With Road Side Objects in Malaysia.
31.	Prof. Dr. Jayum Anak Jawan Fakulti Ekologi Manusia	XX IPSA (Int' Political Science Assn) World Congress Fukuoka, Japan 9-13 Julai 2006	Parliamentary Democracy in Malaysia.
32.	Prof Madya Ahmad Husni Mohd Hanif Fakulti Pertanian	The 18 st World Congress of Soil Science Pennsylvania, USA 9-15 Julai 2006	Site-specific Soil Management for Pineapple Production in a Tropical Peat.
33.	Prof. Madya Rosnah Mohd. Yusuff Fakulti Kejuruteraan	16th World Congress on Egonomics Meeting Diversity in Ergonomics Maastricht, Netherlands 10-14 Julai. 2006	Developing Bus Seat Design Parameters for Malaysian Bus Driver.
34.	Puan Aini Mat Said Fakulti Ekologi Manusia	4th International Conference on Urban Regeneration and Sustainability, Tallinn, Estonia 17 - 19 Julai 2006	
35.	Dr. Noorhana Yahya Fakulti Sains	Universiti of Toledo Amerika Syarikat 20 Julai - 1 Ogos 2006	Lawatan
36.	Prof Madya Dr. Taufiq Yap Yun Hin Fakulti Sains	Annual Surface Chemistry and Catalysis Group Conference United Kingdom 25-27 Julai 2006	Effects of Mechanochemical Treatment to The Vanadium Phosphate Catalysts for Selectivel Oxidations od n-Butane to Maleic Anhydride.

No.	Name / Faculty	Title, Date and Venue of the Seminar	Purpose / Title of Working Paper
23.	Assoc. Prof. Dr. Zailina Hashim Faculty of Medicine and Health Science	2nd North American Congress of Epidemiology, Washington, USA 21st - 24th June 2006	Toluene Exposure and Respiratory Problems Among Spray Painters in an Automotive Industry.
24.	Prof. Dr. Mohd. Zamri Saad Faculty of Veterinary Medicine	Fifth IMT-GT Biannual Conference and International Seminar 2006, Medan, Indonesia 22nd - 23rd June 2006	Vaccination against pneumonic manheimiosis to reduce mortality in sheep.
25.	Assoc. Prof. Dr. Aida Suraya Binti Md. Yunus Faculty of Educational Studies	The 13th International Conference on Learning, Montego Bay, Jamaica 22nd - 25th June 2006	Necessary Skills for Success in Higher Learning.
26.	Dr. Jamaliah Abd Hamid Faculty of Educational Studies	The 13th International Conference on Learning, Montego Bay, Jamaica 22nd - 25th June 2006	Learner Learning Style As a Response to Lecturer Factor: A Case Study of Business Studies In an Institution of Higher Learning.
27.	Dr. Habsah Ismail Faculty of Educational Studies	The 13th International Conference on Learning, Montego Bay, Jamaica 22nd - 25th June 2006	Teachers, Belief Towards The Principles Underlying The National Philosophy of Education in Malaysia.
28.	Prof. Dr. Borhanuddin Mohd Ali Faculty of Engineering	4th International Conference on Smart Homes and Health Telematics (ICOST 2006), Ulster, UK 25th - 29th June 2006	An Automatic Driver Deployment Mechanism in the OSGi Gateway for Smart Home.
29.	Assoc. Prof. Ab. Rahim Bakar Faculty of Educational Studies	ED-MEDIA 2006 World Conference on Educational Multimedia, Hypermedia & Telecommunications, Orlando, Florida 26th - 30th June 2006	Teaching Using ICT : Can They Do It ?
JULY			
30.	Assoc. Prof. Dr. Wong Show Voon Faculty of Engineering	International Crashworthiness Conference, Athens, Greece 4th - 7th July 2006	- Design of Motorcyclist Guardrail Using Finite Element Analysis. - Crashes Along Motorcycle Lanes With Road Side Objects in Malaysia.
31.	Prof. Dr. Jayum Anak Jawan Faculty of Human Ecology	XX IPSA (Int' Political Science Assn) World Congress, Fukuoka, Japan 9th - 13th July 2006	Parliamentary Democracy in Malaysia.
32.	Assoc. Prof. Ahmad Husni Mohd Hanif Faculty of Agriculture	The 18th World Congress of Soil Science, Pennsylvania, USA 9th - 15th July 2006	Site-specific Soil Management for Pineapple Production in a Tropical Peat.
33.	Assoc. Prof. Rosnah Mohd. Yusuff Faculty of Engineering	16th World Congress on Ergonomics Meeting Diversity in Ergonomics, Maastricht, Netherlands 10th - 14th July 2006	Developing Bus Seat Design Parameters for Malaysian Bus Driver.
34.	Mrs Aini Mat Said Faculty of Human Ecology	4th International Conference on Urban Regeneration and Sustainability, Tallinn, Estonia 17th - 19th July 2006	
35.	Dr. Noorhana Yahya Faculty of Science	Toledo University, United States of America, 20th July - 1st August 2006	Visit
36.	Assoc. Prof. Dr. Taufiq Yap Yun Hin Faculty of Science	Annual Surface Chemistry and Catalysis Group Conference, United Kingdom 25th - 27th July 2006	Effects of Mechanochemical Treatment to The Vanadium Phosphate Catalysts for Selective Oxidations of n-Butane to Maleic Anhydride.

Table 28: Academic Officers' Participation at Seminars/ Conferences / Workshops / Overseas Visits using allocations from the Research Grant for 2006

Bil.	Nama / Fakulti	Tajuk, Tarikh dan Tempat Seminar	Tujuan / Tajuk Kertas Kerja
37.	Prof. Madya Dr. Wong Show Voon Fakulti Kejuruteraan	International Conference on Advances in Materials & Processing Technology Las Vegas, USA 30 Julai - 3 Ogos 2006	<ul style="list-style-type: none"> - Design and Development of Four-Node Element With Objective Oriented - Neural-Fuzzy-Based Machinability Data Selection in Tuning Process - Machinability Data Modeling for End Milling Process Using Neural Network - Machining Data Selection For Milling of Wrought Carbon Steel With Fuzzy Logic
OGOS			
38.	Dr Rusnani Abdul Kadir Fakulti Pengajian Pendidikan	Konferensi Internasional UPI-UPSI Universitas Pendidikan Indonesia 6-10 Ogos 2006	Persepsi Pendidikan Terhadap Pelajar Lelaki Lembut.
39.	Prof. Madya Dr. Jothi Malar Panadam Fakulti Pertanian	The 8th World Congress on Genetics Applied to Livestock Production Belo Horizonte, Brazil 13 -18 Ogos 2006	Genetic Variation at Ten Microsatellite Loci in A Sika Deer Population in Malaysia.
40.	Dr. Norihan Bt Md Arifin Fakulti Sains	The 13th International Heat Transfer Conference Sydney, Australia 13-18 Ogos 2006	Effect of Temperature Dependent Viscosity on Free Convection Over Cylinder of Elliptic Cross Section.
41.	Prof. Madya Dr. Thohirah Lee Abdullah Fakulti Pertanian	27th International Horticultural Congress & Exhibition Seoul, Korea 13-19 Ogos 2006	Physiological Changes, Growth and Flowering Responses of Curcuma alismatifoliar Chiangmai Pink to Shading.
42.	Prof. Madya Dr. Fauziah Othman Institut Biosains	10th Iranian Pharmaceutical Sciences Conference (IPSC 2006) Tehran, Iran 21 - 24 Ogos 2006	Nutritional Properties and Anti-Proliferative of Neem on Invitro Cancer Cell Lines.
43.	Prof. Datin Dr. Sharifah Md Nor Fakulti Pengajian Pendidikan	Kelston Deaf Education Centre Auckland, New Zealand 29 Ogos - 4 Sept 2006	Lawatan
SEPTEMBER			
44.	Prof Dr Habibah Elias Fakulti Pengajian Pendidikan	University of Canterbury Christchurch New Zealand 1-9 Sept 2006	Lawatan ke Sekolah-sekolah di Auckland dan University of Canterbury Christchurch.
45.	Prof Madya Dr Mohd Sofian Omar Fakulti Pengajian Pendidikan	University of Canterbury Christchurch New Zealand 1-9 Sept 2006	Lawatan ke Sekolah-sekolah di Auckland dan University of Canterbury Christchurch
46.	Dr Tajularipin Sulaiman Fakulti Pengajian Pendidikan	University of Canterbury Christchurch New Zealand 1-9 Sept 2006	Lawatan ke Sekolah-sekolah di Auckland dan University of Canterbury Christchurch.
47.	Dr Nooreen Noordin Fakulti Pengajian Pendidikan	University of Canterbury Christchurch New Zealand 1-9 Sept 2006	Lawatan ke Sekolah-sekolah di Auckland dan University of Canterbury Christchurch.
48.	Prof Madya Dr Rahil Mahyuddin Fakulti Pengajian Pendidikan	University of Canterbury Christchurch New Zealand 1-9 Sept 2006	Lawatan ke Sekolah-sekolah di Auckland dan University of Canterbury Christchurch.
49.	Puan Maria Chong Abdullah Fakulti Pengajian Pendidikan	University of Canterbury Christchurch New Zealand 1-9 Sept 2006	Lawatan ke Sekolah-sekolah di Auckland dan University of Canterbury Christchurch.

No.	Name / Faculty	Title, Date and Venue of the Seminar	Purpose / Title of Working Paper
37.	Assoc. Prof. Dr. Wong Show Voon Faculty of Engineering	International Conference on Advances in Materials & Processing Technology, Las Vegas, USA 30th July - 3rd August 2006	<ul style="list-style-type: none"> - Design and Development of Four-Node Element With Objective Oriented - Neural-Fuzzy-Based Machinability Data Selection in Tuning Process - Machinability Data Modeling for End Milling Process Using Neural Network - Machining Data Selection For Milling of Wrought Carbon Steel With Fuzzy Logic
AUGUST			
38.	Dr. Rusnani Abdul Kadir Faculty of Educational Studies	International UPI-UPSI Conference, Universitas Pendidikan Indonesia 6th - 10th August 2006	Education Perception Towards 'LEMBUT' Male Students.
39.	Assoc. Prof. Dr. Jothi Malar Panadam Faculty of Agriculture	The 8th World Congress on Genetics Applied to Livestock Production, Belo Horizonte, Brazil 13th - 18th August 2006	Genetic Variation at Ten Microsatellite Loci in A Sika Deer Population in Malaysia.
40.	Dr. Norihan Bt Md Arifin Faculty of Science	The 13th International Heat Transfer Conference, Sydney, Australia 13th - 18th August 2006	Effect of Temperature Dependent Viscosity on Free Convection Over Cylinder of Elliptic Cross Section.
41.	Assoc. Prof. Dr. Thohirah Lee Abdullah Faculty of Agriculture	27th International Horticultural Congress & Exhibition, Seoul, Korea 13th - 19th August 2006	Physiological Changes, Growth and Flowering Responses of Curcuma alismatifoliarar Chiangmai Pink to Shading.
42.	Assoc. Prof. Dr. Fauziah Othman Institute of Bioscience	10th Iranian Pharmaceutical Sciences Conference (IPSC 2006), Tehran, Iran 21st - 24th August 2006	Nutritional Properties and Anti-Proliferative of Neem on Invitro Cancer Cell Lines.
43.	Prof. Datin Dr. Sharifah Md Nor Faculty of Educational Studies	Kelston Deaf Education Centre, Auckland, New Zealand 29th August - 4th September 2006	Visit
SEPTEMBER			
44.	Prof. Dr. Habibah Elias Faculty of Educational Studies	University of Canterbury, Christchurch, New Zealand 1st - 9th September 2006	Visiting the Schools in Auckland and the University of Canterbury in Christchurch.
45.	Assoc. Prof. Dr. Mohd Sofian Omar Faculty of Educational Studies	University of Canterbury, Christchurch, New Zealand 1st - 9th September 2006	Visiting the Schools in Auckland and the University of Canterbury in Christchurch.
46.	Dr. Tajularipin Sulaiman Faculty of Educational Studies	University of Canterbury, Christchurch, New Zealand 1st - 9th September 2006	Visiting the Schools in Auckland and the University of Canterbury in Christchurch.
47.	Dr. Nooreen Noordin Faculty of Educational Studies	University of Canterbury, Christchurch, New Zealand 1st - 9th September 2006	Visiting the Schools in Auckland and the University of Canterbury in Christchurch.
48.	Assoc. Prof. Dr. Rahil Mahyuddin Faculty of Educational Studies	University of Canterbury, Christchurch, New Zealand 1st - 9th September 2006	Visiting the Schools in Auckland and the University of Canterbury in Christchurch.
49.	Mdm. Maria Chong Abdullah Faculty of Educational Studies	University of Canterbury, Christchurch, New Zealand 1st - 9th September 2006	Visiting the Schools in Auckland and the University of Canterbury in Christchurch.

Table 28: Academic Officers' Participation at Seminars/ Conferences / Workshops / Overseas Visits using allocations from the Research Grant for 2006

Bil.	Nama / Fakulti	Tajuk, Tarikh dan Tempat Seminar	Tujuan / Tajuk Kertas Kerja
50.	Prof Madya Dr Fakhru'l-Razi Ahmadun Fakulti kejuruteraan	Lawatan ke United Kingdom 6-14 Sept 2006	Lawatan penyelidikan dan teknikal untuk membuat penilaian hasil serta analisis penyelidikan sedia dan sambungan serta hala tuju untuk RMKe-9 di bawah projek IRPA.
51.	Mohamad Amran Mohd Salleh Fakulti Kejuruteraan	Lawatan ke United Kingdom 6-14 Sept 2006	Lawatan penyelidikan dan teknikal untuk membuat penilaian hasil serta analisis penyelidikan sedia dan sambungan serta hala tuju untuk RMKe-9 di bawah projek IRPA.
52.	Prof. Madya Dr. Raja Zaliha Raja Abd Rahman Fakulti Bioteknologi	Egyptian First International Conference in Chemistry Kaheerah, Mesir 11 - 14 Sept. 2006	Interaction Studies of Putative Chemical Ligands in Bindings Sites of Thermostable Lipase from Geobacillus sp. Strain T1.
53.	Prof. Madya Dr. Sherina Mohd Sidek Fakulti Perubatan & Sains Kesihatan	Fakulti Perubatan & Sains Kesihatan 2nd Asian Health & Well- Being Conference New Zealand 11-14 Sept. 2006	Self- esteem and Its Associated Factors Among Secondary School Student in a Urban District of Selangor, Malaysia. 58. Dr. Ling Tau Chuan
54.	Dr. Ling Tau Chuan Fakulti Kejuruteraan	"Chemical Engineering Conference 2006" Auckland, New Zealand 17-20 Sept. 2006	Direct Recovery of Hepatitis B Core Antigen by Anion-Exchange Expanded Bed Chromatography.
55.	Prof. Dr. Sudhanshu Shekar Jamuar Fakulti Kejuruteraan	The 9th International Symposium on Wireless Personal San Diego, USA 17-20 Sept. 2006	- Spectrum Efficiency Enhancement in the JMAS using smart Antenna. - A Wideband LNA Utilizing Inter- Stage Parallel Resonance a Varactor for Wireless LAN Applications.
56.	Prof. Dr. Jamaliah Bakar Fakulti Pertanian	IUFosT 13th World Congress of Food Science & Technology Nantes, France 17-21 Sept. 2006	Quality Attributes of Lactic Acid Dipped Tilapia Fillets. 61. Dr Jamaliah Abdul Hamid
57.	Dr Jamaliah Abdul Hamid Fakulti Pengajian Pendidikan	Federal Institute for Vocational Education and Training Jerman 17-24 Sept. 2006	Lawatan
58.	Prof Madya Dr Mohamed Fadzil Che Din Fakulti Pengajian Pendidikan	Federal Institute for Vocational Education and Training Jerman 17-24 Sept. 2006	Lawatan
59.	Dr Foo Say Fooi Fakulti Pengajian Pendidikan	Federal Institute for Vocational Education and Training Jerman 17-24 Sept. 2006	Lawatan
60.	Dr Nor Hayati Hj Alwi Fakulti Pengajian Pendidikan	Federal Institute for Vocational Education and Training Jerman 17-24 Sept. 2006	Lawatan
61.	Prof Dr Zaidatul Akmaliah Lope Pihie Fakulti Pengajian Pendidikan	Federal Institute for Vocational Education and Training Jerman 17-24 Sept. 2006	Lawatan
62.	Prof. Madya Dr. Halimatun Yaakub Fakulti Pertanian	The XII AAAP Animal Science Congress 2006 Busan, Korea 18-22 Sept. 2006	The Effect of Palm Kernel Cake Diets on the Follicular Growth, Ovulation Rate and Embryo Development in Rabbits.

No.	Name / Faculty	Title, Date and Venue of the Seminar	Purpose / Title of Working Paper
50.	Assoc. Prof. Dr Fakhru'l-Razi Ahmadun Faculty of Engineering	A field trip to United Kingdom, 6th - 14th September 2006	A research and technical field trip to assess and analyze manufacturing and research processes related to the objectives of the 9th Malaysian Plan under the IRPA project.
51.	Mr. Mohamad Amran Mohd Salleh Faculty of Engineering	A field trip to United Kingdom, 6th - 14th September 2006	A research and technical field trip to assess and analyze manufacturing and research processes related to the objectives of the 9th Malaysian Plan under the IRPA project.
52.	Assoc. Prof. Dr. Raja Zaliha Raja Abd Rahman Faculty of Biotechnology	Egyptian First International Conference in Chemistry, Kaherah, Mesir 11th - 14th September 2006	Interaction Studies of Putative Chemical Ligands in Bindings Sites of Thermostable Lipase from Geobacillus sp. Strain T1.
53.	Assoc. Prof. Dr. Sherina Mohd Sidek Faculty of Medicine and Health Science	2nd Asian Health & Well- Being Conference, New Zealand 11th - 14th September 2006	Self- esteem and Its Associated Factors Among Secondary School Student in a Urban District of Selangor, Malaysia.
54.	Dr. Ling Tau Chuan Faculty of Engineering	"Chemical Engineering Conference 2006" Auckland, New Zealand 17-20 Sept. 2006	Direct Recovery of Hepatitis B Core Antigen by Anion-Exchange Expanded Bed Chromatography.
55.	Prof. Dr. Sudhanshu Shekar Jamuar Faculty of Engineering	The 9th International Symposium on Wireless Personal San Diego, USA 17th -20th Sept. 2006	<ul style="list-style-type: none"> - Spectrum Efficiency Enhancement in the JMAS using smart Antenna. - A Wideband LNA Utilizing Inter-Stage Parallel Resonance a Varactor for Wireless LAN Applications.
56.	Prof. Dr. Jamaliah Bakar Faculty of Agriculture	IUFoST 13th World Congress of Food Science & Technology Nantes, France 17th -21st Sept. 2006	Quality Attributes of Lactic Acid Dipped Tilapia Fillets.
57.	Dr. Jamaliah Abdul Hamid Faculty of Educational Studies	Federal Institute for Vocational Education and Training Jerman 17th -24th Sept. 2006	Visit
58.	Assoc. Prof. Dr Mohamed Fadzil Che Din Faculty of Educational Studies	Federal Institute for Vocational Education and Training Jerman 17th -24th Sept. 2006	Visit
59.	Dr. Foo Say Fook Faculty of Educational Studies	Federal Institute for Vocational Education and Training Jerman 17th - 24th Sept. 2006	Visit
60.	Dr. Nor Hayati Hj Alwi Faculty of Educational Studies	Federal Institute for Vocational Education and Training Jerman 17th - 24th Sept. 2006	Visit
61.	Prof. Dr. Zaidatul Akmaliah Lope Pihie Faculty of Educational Studies	Federal Institute for Vocational Education and Training Jerman 17th - 24th Sept. 2006	Visit
62.	Assoc. Prof. Dr. Halimatun Yaakub Faculty of Agriculture	The XII AAAP Animal Science Congress 2006 Busan, Korea 18th - 22th Sept. 2006	The Effect of Palm Kernel Cake Diets on the Follicular Growth, Ovulation Rate and Embryo Development in Rabbits.

Table 28: Academic Officers' Participation at Seminars/ Conferences / Workshops / Overseas Visits using allocations from the Research Grant for 2006

Bil.	Nama / Fakulti	Tajuk, Tarikh dan Tempat Seminar	Tujuan / Tajuk Kertas Kerja
63.	Prof. Madya Dr. Jalaludin Harun INTROB	2nd International Conference on Environmentally-Compatible Forest Product Portugal 20 - 22 Sept. 2006	Study of Non-Accelerated Ageing on Rubber wood-Polypropylene Wood-Plastic Composites.
		3rd IADAT International Conference on Telecommunication United Kingdom 27 - 29 Sept. 2006	Reducing the Current in a 5.7 Ghz Variable Gain Low Noise Amplifier (VGLNA).
64.	Prof. Dr. Sudhanshu Shekar Jamuar Fakulti Kejuruteraan	Fakulti Perubatan & Sains Kesihatan 2nd Asian Health & Well- Being Conference New Zealand 11-14 Sept. 2006	Self- esteem and Its Associated Factors Among Secondary School Student in a Urban District of Selangor, Malaysia. 58. Dr. Ling Tau Chuan
OKTOBER			
65.	Dr. Shuhaimi Mustafa Fakulti Bioteknologi & Sains Biomolekul	International Food and Health Innovation Conference Malmo, Sweden 25-27 Okt. 2006	Growth of Bifidobacteria in Trypon Phyton Yeast (TPY) Medium Supplemented With Total Polysaccharides From Ganoderma Lucidum.
NOVEMBER			
66.	Prof. Dr. Kaida Khalid Fakulti Sains	Wood and Forestry Sciences : Direction for Sustainable Development of Meknes Khenifra, Morocco 15-17 November 2006	Microwave Dielectric Properties of Tropical Wood and Development.
67.	Puan Shanui Shabas Fakulti Perubatan dan Sains Kesihatan	Ninth International Congress of Behavioural Medicine Bangkok Thailand 29 November - 2 Disember 2006	Assessing the Prevalence of Organic Disorder, Depression and Anxiety among Older Malaysians: A Community Survey Using the GMS-AGECAT.
68.	Prof. Madya Tengku Aizan Tengku Abdul Hamid Institut Gerontologi	Ninth International Congress of Behavioural Medicine Bangkok Thailand 29 November - 2 Disember 2006	Socioeconomic Determinants of Self-rated Health among Older Malaysians : Non-comparative and Age-comparative Models.
DISEMBER			
69.	Prof. Madya Dr. Thomas Choong Shean Yaw Fakulti Kejuruteraan	13rd Regional Symposium on Chemical Engineering Singapura 3- 5 Disember 2006	Onset of Natural Convection Induced by Mass Diffusion of Liquid.
70.	Prof. Seow Heng Fong Fakulti Perubatan dan Sains Kesihatan	Australasian Society of Immunology Conference / Tumour Immunology Workshop Auckland, New Zealand 3 - 7 Disember 2006	Detection of T regulatory cells in nasopharyngeal carcinoma.
71.	Prof. Madya Dr. Haji Basyaruddin Haji Abdul Rahman Fakulti Sains	4th Asia Pacific Congress in Catalysis Singapura 6- 8 Disember 2006	Bimolecular Design and Interaction Studies of Potential Industrial Biocatalyst: A Highly Thermostable Protein Complex of Thermolysin-Phosphoetanolamine- Ca ²⁺
72.	Dr. Ir Renuganth Varatharajoo Fakulti Kejuruteraan	The International Symposium on Multiphysics Maribor, Slovenia 14-15 Disember 2006	Hybrid Spacecraft Attitude Control Systems.

Program Pertukaran Budaya Antarabangsa

Pada tahun 2006, seramai enam orang pelajar UPM telah mengikuti Program K-Step selama setahun di Kokugakuin University, Jepun, iaitu satu program yang memberi peluang kepada peserta untuk mendapat pendedahan tentang budaya dan cara hidup orang Jepun. Sepanjang program tersebut, para peserta telah didedahkan dengan pengetahuan tentang negara Jepun, seperti kebudayaan, ekonomi, agama, politik, sistem perundangan, sejarah, dan mendalami bahasa Jepun. Selain itu, pelajar berpeluang untuk memahami cara hidup keluarga Jepun menerusi program homestay.

No.	Name / Faculty	Title, Date and Venue of the Seminar	Purpose / Title of Working Paper
63.	Assoc. Prof. Dr. Jalaludin Harun INTROB	2nd International Conference on Environmentally-Compatible Forest Product Portugal 20 - 22 Sept. 2006	Study of Non-Accelerated Ageing on Rubber wood-Polypropylene Wood-Plastic Composites.
		3rd IADAT International Conference on Telecommunication United Kingdom 27 - 29 Sept. 2006	Reducing the Current in a 5.7 Ghz Variable Gain Low Noise Amplifier (VGLNA).
64.	Prof. Dr. Sudhanshu Shekar Jamuar Faculty of Engineering	3rd IADAT International Conference on Telecommunication, United Kingdom 27th - 29th September 2006	Reducing the Current in a 5.7 Ghz Variable Gain Low Noise Amplifier (VGLNA).
OCTOBER			
65.	Dr. Shuhaimi Mustafa Biotechnology and Biomolecular Faculty of Sciences	International Food and Health Innovation Conference, Malmo, Sweden 25th - 27th October 2006	Growth of Bifidobacteria in Trypon Phyton Yeast (TPY) Medium Supplemented With Total Polysaccharides From Ganoderma Lucidum.
NOVEMBER			
66.	Prof. Dr. Kaida Khalid Faculty of Science	Wood and Forestry Sciences : Direction for Sustainable Development of Meknes Khenifra, Morocco 15th -17th November 2006	Microwave Dielectric Properties of Tropical Wood and Development.
67.	Mdm. Shanui Shabas Faculty of Medicine and Health Science	Ninth International Congress of Behavioural Medicine Bangkok Thailand 29th Nov - 2nd Dis 2006	Assessing the Prevalence of Organic Disorder, Depression and Anxiety among Older Malaysians: A Community Survey Using the GMS-AGECAT.
68.	Assoc. Prof. Tengku Aizan Tengku Abdul Hamid Gerontology Institute	Ninth International Congress of Behavioural Medicine Bangkok Thailand 29th Nov - 2nd Dec 2006	Socioeconomic Determinants of Self-rated Health among Older Malaysians : Non-comparative and Age-comparative Models.
DECEMBER			
69.	Assoc. Prof. Dr. Thomas Choong Shean Yaw Faculty of Engineering	13rd Regional Symposium on Chemical Engineering Singapura 3th - 5th December 2006	Onset of Natural Convection Induced by Mass Diffusion of Liquid.
70.	Prof. Dr. Seow Heng Fong Faculty of Medicine and Health Science	Australasian Society of Immunology Conference / Tumour Immunology Workshop Auckland, New Zealand 3th - 7th December 2006	Detection of T regulatory cells in nasopharyngeal carcinoma.
71.	Assoc. Prof. Dr. Haji Basyaruddin Haji Abdul Rahman Faculty of Science	4th Asia Pacific Congress in Catalysis Singapura 6th - 8th December 2006	Bimolecular Design and Interaction Studies of Potential Industrial Biocatalyst: A Highly Thermostable Protein Complex of Thermolysin-Phosphoetanolamine-Ca ²⁺
72.	Dr. Ir. Renuganth Varatharajoo Faculty of Engineering	The International Symposium on Multiphysics Maribor, Slovenia 14th -15th December 2006	Hybrid Spacecraft Attitude Control Systems.

Table 28: Academic Officers' Participation at Seminars/ Conferences / Workshops / Overseas Visits using allocations from the Research Grant for 2006

International Cultural Exchange Programme

In 2006, six UPM students had joined the K-Step Programme for a year, held in Kokugakuin University, Japan. This is a Programme which enables participants to get an exposure on Japanese culture and lifestyles. Throughout the Programme, participants are exposed to the knowledge of Japan as a country i.e. its culture, economy, religion, politics, its judicial system, history and in depth learning of the Japanese language. Besides these, the participants also get the opportunity to understand the lifestyle of a Japanese family through the Homestay Programme.

Program Pertukaran Pelajar Antarabangsa

Sepanjang tahun 2006, UPM telah menerima tujuh orang pelajar yang mengikuti Program Pertukaran Pelajar di UPM, dan Bahagian Antarabangsa merupakan sekretariat kepada program ini. Para pelajar yang mengikuti program ini terdiri daripada pelajar dari Aachen University of Applied Sciences, Germany, Braunschweig University of Technology, Germany, Royal Veterinary and Agricultural University, Denmark, dan Gorgan University of Agricultural Sciences and Natural Resources, Iran.

Selain menerima pelajar dari luar negara, UPM juga telah menghantar pelajar untuk mengikuti Program Pertukaran Pelajar ke luar negara. Pada tahun 2006, seramai tiga orang pelajar UPM telah mengikuti Program Pertukaran Pelajar selama satu semester di universiti luar negara yang dibiayai menerusi Skim Intership Pelajar. Para pelajar berkenaan mengikuti program pertukaran pelajar di Kyushu Institute Technology, Jepun.



Program Promosi di UPM

Pelbagai jenis aktiviti telah dijalankan yang melibatkan pihak akhbar, media massa, dan rakan korporat UPM dengan tujuan untuk mempromosikan UPM dan program pengajian yang ditawarkan. Maklumat tentang aktiviti tersebut dipaparkan dalam **Jadual 29**.

Program Promosi UPM di Luar Negara

Program promosi UPM telah merentas dari benua Asia sehingga ke Benua Afrika dengan tujuan untuk memperkenalkan UPM dan program yang ditawarkan kepada masyarakat di luar negara **Jadual 30**.

Tarikh	Maklumat Aktiviti	Media
19 Januari 2006	Promosi surat khabar The Sun	The SUN
13 Februari 2006	Promosi Kadfon dan Payphone 2006	TM Payphone Sdn. Bhd.
21 Februari 2006	Mempromosikan kad kredit EON Bank	Yayasan Fas Business Avenue
14 September 2006	Promosi Sizeup	Sizeup Media Sdn. Bhd
21 September 2006	Sumbangan Mouse Pad kepada mahasiswa UPM	Sizeup Media Sdn. Bhd
16 Oktober 2006	Promosi Pemeriksaan Mata dan bingkai percuma	Yayasan Pendidikan Prihatin
28 Disember 2006	Promosi Hartanah	Fairview Development Sdn. Bhd.

International Student Exchange Programme

Throughout the year 2006, UPM welcomed 7 students who joined the International Student Exchange Programme at UPM and the International Department was the Secretariat for this Programme. The students are from Aachen University of Applied Sciences, Germany; Braunschweig University of Technology, Germany; Royal Veterinary and Agricultural University, Denmark; and Gorgan University of Agricultural Sciences and Natural Resources, Iran.

Besides welcoming foreign students to Malaysia, UPM also sent several students to join the International Student Exchange Programme abroad. In 2006, UPM sent 3 students for the duration of One Semester to the Kyushu Institute of Technology, in Japan. They were sponsored by the Students' Internship Scheme.



Promotion Programme at UPM

A variety of activities to promote UPM and its Programmes were conducted involving the mass media, the press and UPM's corporate associates. Information about these promotional activities are featured in the **Table 29**.

UPM's Overseas Promotional Programmes

UPM Promotional Programmes stretched across the continent of Asia, to as far as the continent of Africa to ensure UPM and the Programmes it offers are known to everyone in foreign countries **Table 30**.

Date	Information about the Activity	Media
19th January 2006	The Sun Newspaper Promotion	The SUN
13th February 2006	2006 'Kadfon' and Payphone Promotion	TM Payphone Sdn. Bhd.
21st February 2006	EON Bank Credit Card Promotion	Yayasan Fas Business Avenue
14th September 2006	Sizeup Promotion	Sizeup Media Sdn. Bhd
21st September 2006	Mouse Pad Donation to UPM Undergraduates	Sizeup Media Sdn. Bhd
16th October 2006	Free Eye Check and Frames Promotion	Yayasan Pendidikan Prihatin
28th December 2006	Real Estate Promotion	Fairview Development Sdn. Bhd.

Table 29: UPM's Promotional Programmes

Jadual 30: Memuakan maklumat tentang aktiviti dan negara yang telah dikunjungi oleh delegasi promosi UPM

Tarikh	Maklumat Aktiviti	Negara
18 - 22 Februari 2006	Malaysia Edu Fair 2006	Jakarta dan Bandung, Indonesia
17-19 April 2006	Malaysia Edu-Mart 2006	Tripoli, Libya
24 - 31 Julai 2006	Malaysia Higher Education Fair China 2006	Xian dan Chongqing, Republic China
28 - 29 Ogos 2006	Malaysia Education-Interview & Consultation Session	Nairobi, Republik Kenya
30 Ogos - 3 Sept 2006	1st Malaysia Education Exhibiton 2006	Accra, Republic Ghana
24 - 26 November 2006	Global Education & Training Exhibiton Abu Dhabi 1006	Beach Rotana Hotel & Tower Abu Dhabi, UAE
2 - 3 Disember 2006	Malaysia Education Fair 2006	Bandar Seri Begawan, Brunei Darussalam



Date	Information about the Activity	Country
18th - 22nd February 2006	Malaysia Edu Fair 2006	Jakarta dan Bandung, Indonesia
17th - 19th April 2006	Malaysia Edu-Mart 2006	Tripoli, Libya
24th - 31st July 2006	Malaysia Higher Education Fair China 2006	Xian dan Chongqing, Republic China
28th - 29th August 2006	Malaysia Education-Interview & Consultation Session	Nairobi, Republik Kenya
30th August - 3rd September 2006	1st Malaysia Education Exhibiton 2006	Accra, Republic Ghana
24th - 26th November 2006	Global Education & Training Exhibiton Abu Dhabi 1006	Beach Rotana Hotel & Tower Abu Dhabi, UAE
2nd - 3rd December 2006	Malaysia Education Fair 2006	Bandar Seri Begawan, Brunei Darussalam

Table 30: Contains information on the activities and countries visited by the Delegation to promote UPM





Pejabat BendahariBursar's Office

Prestasi Keuangan Universiti Putra Malaysia Tahun 2006The Financial Performance of Universiti Putra Malaysia For The Year 2006

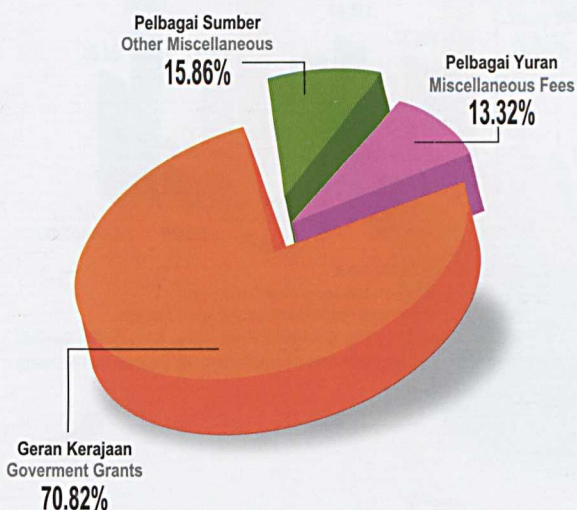
Pendapatan Kumpulanwang Disatukan

Keseluruhan pendapatan Universiti bagi tahun 2006 adalah sebanyak RM622.87 juta, meningkat RM31.89 juta (5.40%) berbanding RM590.98 juta pada tahun 2005. Daripada jumlah tersebut, sebanyak RM441.11 juta atau 70.82% adalah daripada Geran Kerajaan, RM82.96 juta atau 13.32% adalah daripada pelbagai yuran dan RM98.80 juta atau 15.86% daripada pelbagai sumber lain.

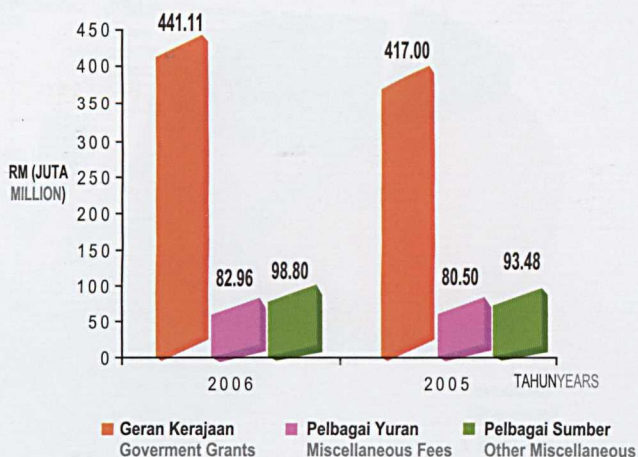
Consolidated Fund's Income

The total income of the University for the year 2006 was RM622.87 million, an increase of RM31.89 million (5.40%) as compared to RM590.98 million for the year 2005. From this amount, a total of RM441.11 million or 70.82% was from Government Grants, RM82.96 million or 13.32% was from various fees and RM98.80 million or 15.86% was from various other sources.

Sumber Pendapatan 2006
Income Sources for 2006



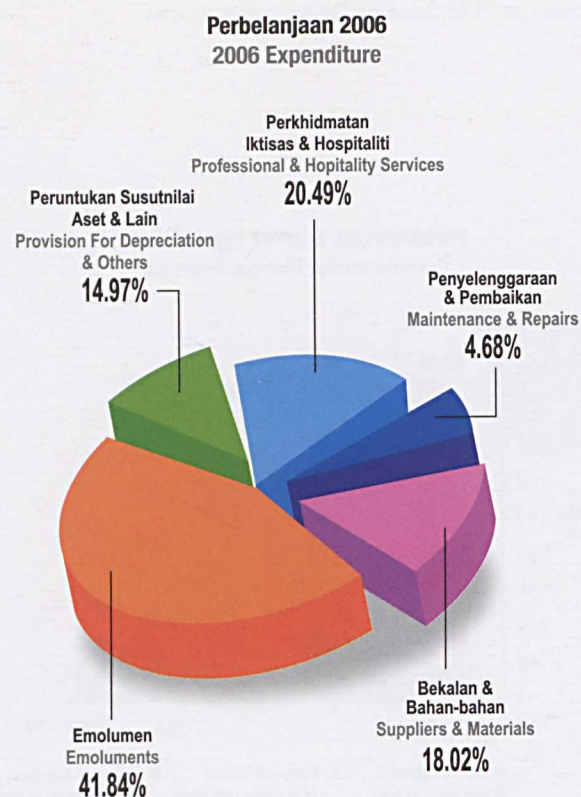
Perbandingan Sumber Pendapatan
Comparison of Income Sources



Perbelanjaan Kumpulanwang Disatukan

Perbelanjaan Universiti pada tahun 2006 adalah sebanyak RM579.21 juta berbanding RM560.29 juta pada tahun 2005, meningkat RM18.92 juta (3.38%). Daripada jumlah perbelanjaan ini, sebanyak RM242.34 juta (41.84%) telah dibelanjakan untuk emolumen, RM104.37 juta (18.02%) untuk bekalan dan bahan-bahan, RM27.13 juta (4.68%) untuk penyelenggaraan dan pembaikan, RM118.67 juta (20.49%) untuk perkhidmatan iktisas dan hospitaliti dan RM86.70 juta (14.97%) untuk peruntukan susutnilai aset dan lain-lain.

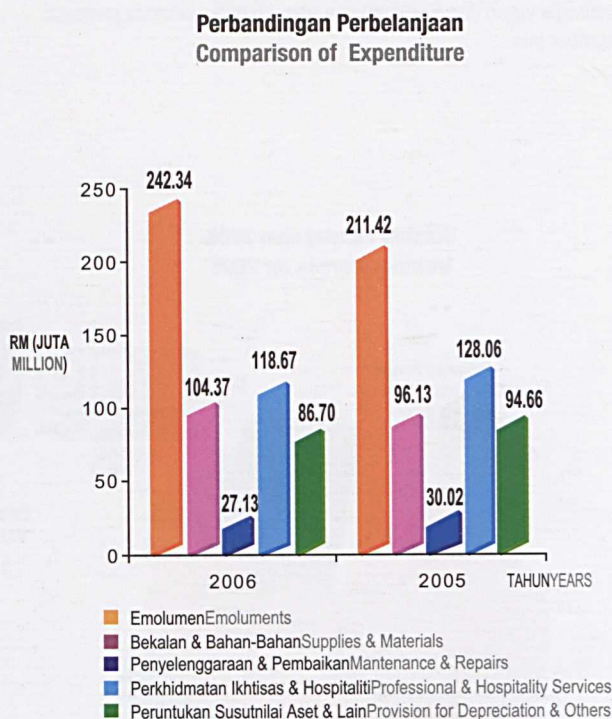
Pada tahun 2006, lebih pendapatan adalah RM43.65 juta berbanding RM30.69 pada tahun 2005, meningkat RM12.96 juta atau 42.22%.



Consolidated Fund's Expenditure

The expenditure of the University for the year 2006 was RM579.21 million compared to RM560.29 million for the year 2005, an increase of RM18.92 million (3.38%). From this expenditure, a total of RM242.34 million (41.84%) was spent on emoluments, RM104.37 million (18.02%) for supplies and materials, RM27.13 million (4.68%) for maintenance and repairs, RM118.67 million (20.49%) for professional services and hospitality and RM86.70 million (14.97%) as allocation for asset depreciation and miscellaneous expenses.

In the year 2006, the surplus revenue was RM43.65 million compared to RM30.69 in 2005, an increase of RM12.96 million or 42.22%.



Kedudukan Harta, Tanggungan dan Kewangan Universiti

Harta, Tanggungan dan Kumpulanwang Disatukan

Peningkatan aset tetap adalah sebanyak RM16.76 juta atau 1.85%, iaitu RM924.65 juta pada tahun 2006 berbanding RM907.89 juta pada tahun 2005. Aset semasa juga telah meningkat RM 217.72 juta atau 102.73%, iaitu RM429.64 juta pada tahun 2006 berbanding RM211.92 juta pada 2005.

Tanggungan semasa telah menurun sebanyak RM12.66 juta atau 30.44% pada tahun 2006, kepada RM28.93 juta berbanding RM41.59 juta pada tahun 2005.

Keseluruhan program dan aktiviti Universiti dibiayai oleh Kumpulanwang Disatukan berjumlah RM1,302.26 juta pada tahun 2006 berbanding RM1,064.01 juta pada tahun 2005, meningkat sebanyak RM238.25 juta atau 22.39%. Kumpulanwang

Status of Assets, Liabilities and Finance of the University

Assets, Liabilities and Consolidated Fund

The rise in fixed assets was RM16.76 million or 1.85%, which is RM924.65 million for the year 2006 as compared to RM907.89 million in the year 2005. Current assets too increased by RM 217.72 million or 102.73%, that is RM429.64 million in the year 2006 compared to RM211.92 million for the year 2005.

Current liabilities were reduced by RM12.66 million or 30.44% for the year 2006, to RM28.93 million compared to RM41.59 million in the year 2005.

All University programmes and activities were funded by the Consolidated Fund totalling RM1,302.26 million for the year 2006 compared to RM1,064.01 million in the year 2005, an increase of RM238.25 million or 22.39%. The Consolidated Fund comprises

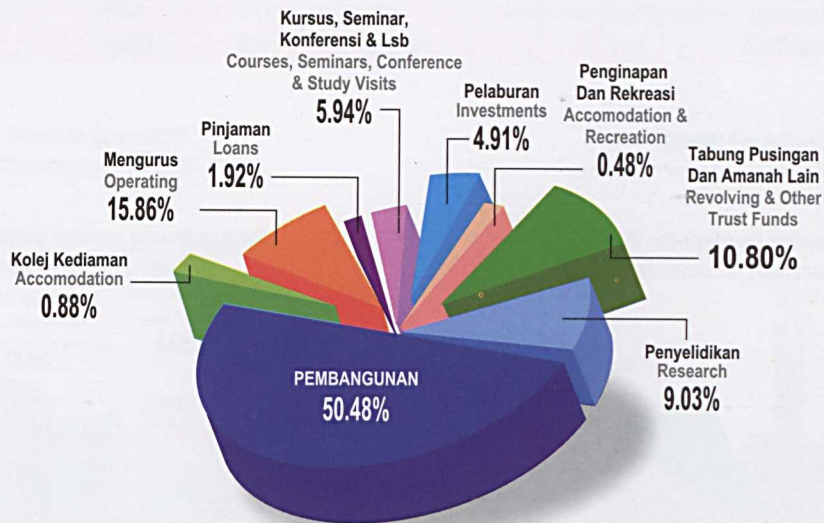
Disatukan ini terdiri daripada sembilan (9) Kumpulanwang dan kumpulanwang-kumpulanwang yang tersebut adalah seperti di jadual 1:-

nine (9) Consolidated Funds as stated in Schedule 1:-

Bil No	Kumpulanwang Consolidated Fund	TahunYears 2006 (RM jutamillion)	TahunYears 2005 (RM jutamillion)	PerbezaanDifference	
				(RM jutamillion)	(%)
1.	MengurusOperating	206.49	198.74	7.75	3.90
2.	Kolej KediamanResidential College	11.45	10.71	0.74	6.91
3.	PembangunanDevelopment	657.44	465.93	191.51	41.10
4.	PenyelidikanResearch	117.64	105.73	11.91	11.26
5.	Tabung PusinganRevolving & dan Amanah LainOther Trust Funds	136.64	116.57	20.07	17.22
6.	Penginapan danAccommodation and RekreasiRecreation	6.30	5.95	0.35	5.88
7.	PelaburanInvestments	63.91	60.45	3.46	5.72
8.	Kursus, Seminar, Course, Seminar, Konferensi danConferences & Lawatan SambilStudy Visits Belajar (LSB)	77.39	74.93	2.46	3.28
9.	PinjamanVehicle and Computer Kenderaan dan Komputerloan	25.00	25.00	0	0
	JumlahTotal	1,302.26	1,064.01	238.26	22.39

Jadual 1: Perbandingan Kumpulanwang
Table 1: Comparison of Funds

Kumpulanwang 2006
2006 Consolidated Funds



Prestasi Pendapatan dan Perbelanjaan Kumpulanwang Yang Menerima Sumber Pembiayaan Utama Dari Geran Kerajaan (Berasaskan Tunai - 'Cash Basis')

Kumpulanwang yang menerima pembiayaan utama dari Geran Kerajaan terdiri daripada Kumpulanwang Mengurus, Kumpulanwang Pembangunan dan Kumpulanwang Penyelidikan. Pendapatan dan perbelanjaan yang dilaporkan seperti berikut adalah berasaskan tunai dan maklumat pendapatan dan perbelanjaan tunai bagi Kumpulanwang Mengurus dan Kumpulanwang Pembangunan adalah sepertimana di **Lampiran I: Laporan Ringkasan Kedudukan Kewangan Dan Prestasi Tahun 2006 dan penyesuaian Laporan Pendapatan dan Perbelanjaan Berasaskan Tunai dengan Penyata Pendapatan di Penyata Kewangan adalah sepertimana di Lampiran II: Penyata Ringkasan Lebihan/Kurangan Perbelanjaan Mengurus dan Pembangunan pada 31 Disember 2006.**

The Outcome of the Income and Expenditure of Funds Financed by Government Grants (Cash Basis)

The Funds that received the most subsidies from Government Grants were the Operating, Development and the Research Funds. The Income and Expenditure that was reported as follows is based on cash and information about the cash income and expenditure for the Operating and Development Funds as stated in Appendix I: A Summary Report of the Financial and Performance Status for 2006 and an adjustment of the Report on a Cash Basis Income and Expenditure with the Income Statement in the Financial Statement as seen in Appendix II: A Summary Statement of the Surplus/Deficit of the Operating and Development Expenditure as at 31st December, 2006

Kumpulanwang Mengurus

Pendapatan

Peruntukan Mengurus yang diluluskan untuk UPM bagi tahun 2006 telah menunjukkan peningkatan sebanyak RM8.35 juta (1.90%), iaitu RM453.73 juta pada tahun 2006 berbanding RM445.39 juta tahun 2005. Daripada jumlah tersebut, RM398.53 juta (87.83%) merupakan peruntukan geran kerajaan dan bakinya RM55.20 juta (12.17%) adalah daripada pendapatan lain.

Secara keseluruhan, pendapatan Mengurus UPM yang diterima pada tahun 2006 adalah RM451.56 juta berbanding RM450.26 juta pada tahun 2005, meningkat RM1.30 juta (0.29%). Daripada jumlah ini, sebanyak RM403.61 juta atau 89.38% adalah daripada geran kerajaan, RM38.15 juta atau 8.45% adalah daripada pelbagai yuran dan RM9.80 juta atau 2.17% pula daripada pelbagai sumber lain.

Operating Fund

Income

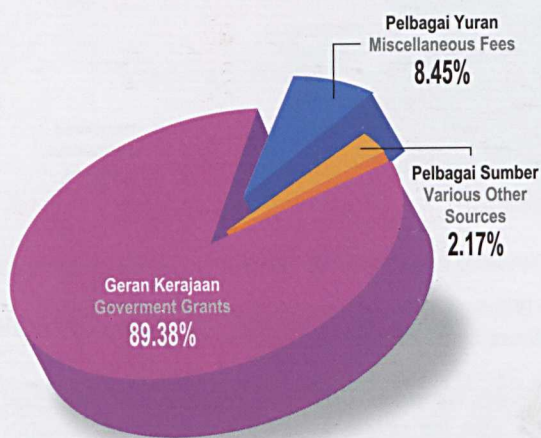
The approved Operating allocation for UPM in 2006 showed an increase of RM8.35 million (1.90%), which is RM453.73 million in the year 2006 compared to RM445.39 million in the year 2005. From this amount RM398.53 million (87.83%) was derived from Government Grant and the balance of RM55.20 million (12.17%) was from other income.

As a whole, the Operating Income of UPM which was received in the year 2006 was RM451.56 million compared to RM450.26 million in the year 2005, an increase of RM1.30 million (0.29%). From this amount, RM403.61 million or 89.38% was from Government Grants, while RM38.15 million or 8.45% was from various fees, and RM9.80 million or 2.17% was from various other sources.

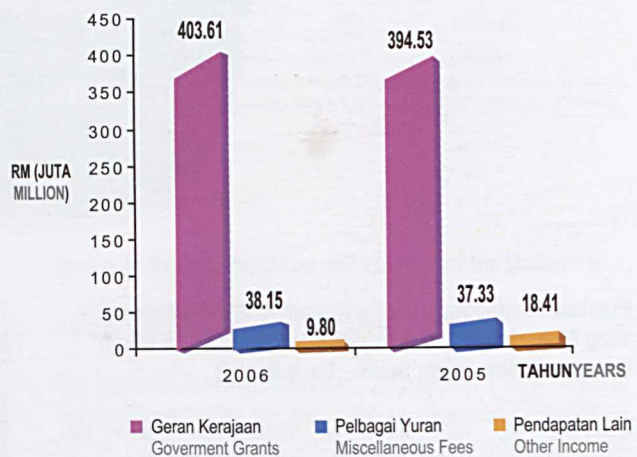
Jadual 2: Pendapatan Mengurus
Table 2: Operating Income

	TahunYears 2006		TahunYears 2005	
	(RM jutamillion)	(%)	(RM jutamillion)	(%)
Geran KerajaanGovernment Grants	403.61	89.38	394.53	87.62
Pelbagai YuranMiscellaneous Fees	38.15	8.45	37.33	8.29
Pendapatan LainMiscellaneous Income	9.80	2.17	18.41	4.09
JumlahTotal	451.56	100	450.26	100

Sumber Pendapatan 2006
Sources Of Income for 2006



Perbandingan sumber pendapatan
Comparison of Income



Perbelanjaan

Perbelanjaan Mengurus tahun 2006 berjumlah RM431.03 juta berbanding RM405.80 juta pada tahun 2005, meningkat RM25.23 juta atau 6.22%. Daripada jumlah perbelanjaan ini, sebanyak RM236.83 juta (54.95%) telah dibelanjakan untuk emolumen, RM73.04 juta (16.95%) untuk bekalan dan bahan-bahan, RM21.32 juta (4.95%) untuk penyelenggaraan dan pembaikan, RM68.38 juta (15.85%) untuk perkhidmatan iktisas dan hospitaliti dan RM31.46 juta (7.30%) untuk pembelian aset.

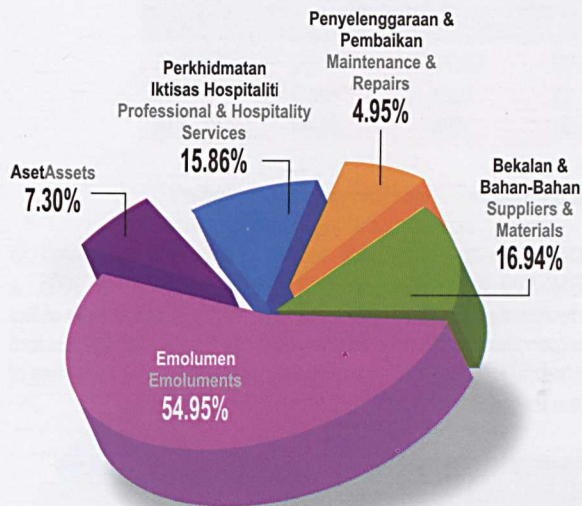
Expenditure

The Operating Expenditure for 2006 totaled RM431.03 million compared to RM405.80 million in the year 2005, an increase of RM25.23 million or 6.22%. From this total expenditure, RM236.83 million (54.95%) was spent on emoluments, RM73.04 million (16.95%) for supplies and materials, RM21.32 million (4.95%) for maintenance and repairs, RM68.38 million (15.85%) for professional hospitality services while RM31.46 million (7.30%) was spent on purchasing assets.

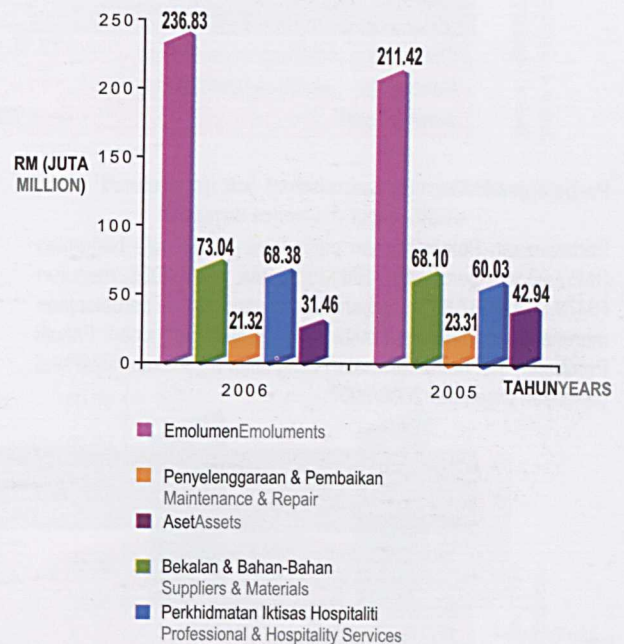
	TahunYears 2006		TahunYears 2005	
	(RM jutamillion)	(%)	(RM jutamillion)	(%)
EmolumenEmoluments	236.83	54.95	211.42	52.10
Bekalan dan Bahan-Bahan Supplies and Materials	73.04	16.95	68.10	16.78
Penyelenggaraan & Maintenance Pembaikan& Repairs	21.32	4.95	23.31	5.74
Perkhidmatan IktisasProfessional dan Lain-LainServices & Others	68.38	15.85	60.03	14.79
AsetAssets	31.46	7.30	42.94	10.59
JumlahTotal	431.03	100	405.80	100

Jadual 3 : Perbelanjaan Mengurus
Table 3 : Operating Expenditure

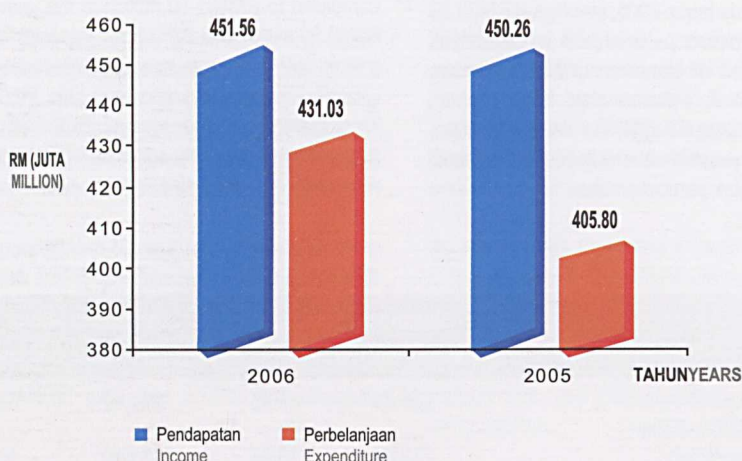
Perbelanjaan 2006
Expenditure for 2006



Perbandingan Perbelanjaan
Comparison of Expenditure



Perbandingan Pendapatan dan Perbelanjaan Mengurus
Comparison Of Operating Income & Expenditure



Kumpulanwang Pembangunan

Pendapatan

Sebanyak RM220.80 juta peruntukan geran kerajaan telah diterima pada tahun 2006 berbanding RM57.16 juta pada 2005, meningkat RM163.64 juta (286.26%) dan peruntukan ini adalah bagi membiayai projek-projek dibawah RMK9.

Development Fund

Income

A total of RM220.80 million from the Government Grant was received for the year 2006 compared to RM57.16 million in 2005, an increase of RM163.64 million (286.26%) and this allocation was to fund projects under the 9th Malaysian Plan.

Jadual 4 : Pendapatan Pembangunan
Table 4: Development Income

	TahunYears 2006		TahunYears 2005	
	(RM jutamillion)	(%)	(RM jutamillion)	(%)
Geran Kerajaan/Government Grants	220.80	99.77	57.16	98.49
Pendapatan Lain/Miscellaneous Income	0.51	0.23	0.88	1.51
JumlahTotal	221.31	100	58.04	100

Perbelanjaan

Perbelanjaan Pembangunan pada tahun 2006 pula berjumlah RM57.00 juta berbanding RM135.36 juta tahun 2005, menurun RM78.36 juta (57.89%). Sebahagian besar daripada perbelanjaan merupakan pembayaran akhir bagi projek Bangunan Fakulti Perubatan dan Sains Kesihatan yang telah digunakan mulai sesi pengajian Disember 2006/2007.

Expenditure

Development Expenditure for the year 2006 amounted to RM57.00 million compared to RM135.36 million in 2005, a decrease of RM78.36 million (57.89%). A large percentage of this expenditure was for the final payment for the Health Science and Medical Faculty Building which was utilized from the beginning of the December 2006/2007 study session.

Jadual 5 : Perbelanjaan Pembangunan
Schedule 5 : Development Expenditure

	TahunYears 2006		TahunYears 2005	
	(RM jutamillion)	(%)	(RM jutamillion)	(%)
Tanah, Bangunan dan Kemudahan Land, Building & Facilities	48.43	84.97	133.95	98.96
Perabot dan Aiat-alat Kelengkapan Furniture & Fixtures	0.22	0.39	0.45	0.34
Mesin dan Komputer Machines & Computers	5.24	9.19	0.12	0.08
Kenderaan, Jentera dan Pembaikan Vehicles, Machinery & Repairs	0.10	0.17	0.00	0.00
Perbelanjaan-Perbelanjaan Lain Other Expenditure	3.01	5.28	0.86	0.62
JumlahTotal	57.00	100	137.36	100

Kumpulanwang Penyelidikan

Kumpulanwang Penyelidikan Universiti terdiri dari projek-projek penyelidikan dan perundingan yang mendapat pembiayaan dari geran kerajaan dan juga pihak swasta. Jumlah keseluruhan pendapatan Kumpulanwang Penyelidikan pada tahun 2006 berjumlah RM49.13 juta, meningkat RM11.76 juta (31.47%) berbanding RM37.37 juta pada tahun 2005. Sementara perbelanjaan keseluruhan pula adalah sebanyak RM37.67 juta, menurun RM12.19 juta (24.44%) berbanding RM49.86 juta pada tahun 2005. Daripada jumlah pendapatan dan perbelanjaan tersebut, sebahagian besar adalah pembiayaan dari Kementerian Sains, Teknologi dan Inovasi (MOSTI) untuk projek penyelidikan Intensification of Research In Priority Areas (IRPA).

Research Funds

The Universiti Research Fund comprised research and consultancy projects financed via Government Grants and the Private Sector. Research Fund Income in 2006 amounted to RM49.13 million, an increase of RM11.76 million (31.47%) compared to RM37.37 million in the year 2005. However, the total Expenditure was RM37.67 million, a decrease of RM12.19 million (24.44%) compared to RM49.86 million in the year 2005. From this total Income and Expenditure, the bulk of subsidies were from the Ministry of Science, Technology and Innovation (MOSTI) for the Intensification of Research In Priority Areas (IRPA) research project.

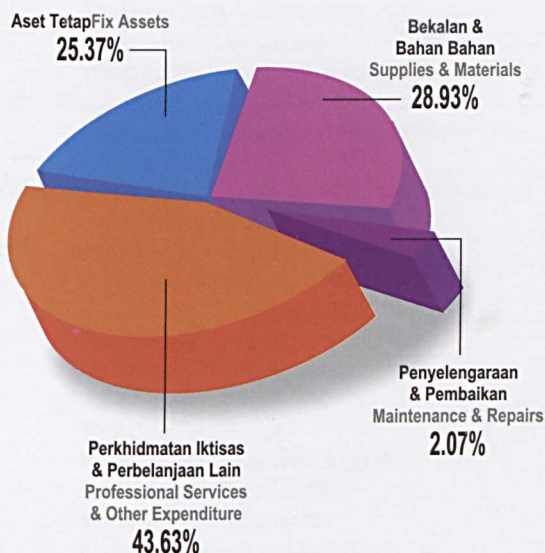
	TahunYears 2006		TahunYears 2005	
	(RM jutamillion)	(%)	(RM jutamillion)	(%)
Geran KerajaanGovernment Grants	32.79	66.75	17.67	47.28
Sumbangan LuarOutside Contributions	8.21	16.71	12.58	33.66
Pendapatan LainOther Income	8.13	16.54	7.12	19.06
JumlahTotal	49.13	100	37.37	100

Jadual 6 : Pendapatan Penyelidikan
Table 6 : Research Income

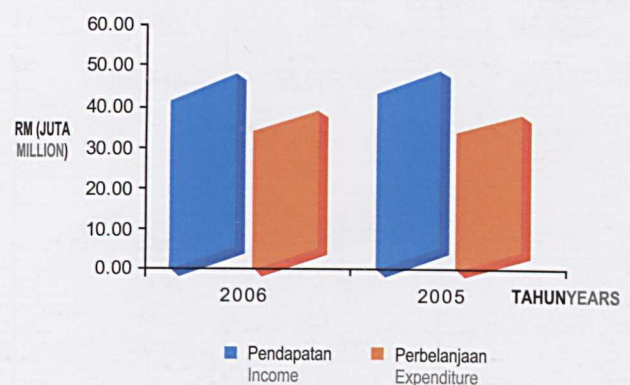
	TahunYears 2006		TahunYears 2005	
	(RM jutamillion)	(%)	(RM jutamillion)	(%)
Bekalan dan Bahan-Bahan Supplies & Materials	10.89	28.93	12.53	25.14
Penyelenggaraan & Pembaikan Maintenance & Repairs	0.78	2.07	0.97	1.94
Perkhidmatan Iktisas dan Lain-Lain Professional Services & Others	16.44	43.63	26.99	54.14
Aset Assets	9.56	25.37	9.36	18.78
JumlahTotal	37.67	100	49.85	100

Jadual 7 : Perbelanjaan Penyelidikan
Table 7 : Research Expenditure

Perbelanjaan Penyelidikan Research Expenditure



Pendapatan dan Perbelanjaan Penyelidikan Research Income & Expenditure



Strategi Perbelanjaan

Strategi utama belanjawan 2006 adalah untuk menyediakan segala bentuk kemudahan prasarana, peralatan dan latihan yang diperlukan oleh pelajar, tenaga pengajar dan pentadbir bagi memastikan sistem pembelajaran dan pengajaran dapat dijalankan dengan berkesan. Selain itu, tenaga akademik juga memberi sumbangan penyelidikan ke arah kemajuan dan pembangunan ekonomi dan ini selaras dengan matlamat universiti sebagai penyumbang utama kepada kemajuan manusia dan penerokaan ilmu seterusnya pembentukan kekayaan dan pembangunan ekonomi negara.

UPM juga telah memberi penekanan kepada pembangunan dan kemajuan sektor pertanian. Tindakan ini selaras dengan penekanan yang telah diberikan oleh kerajaan untuk menjadikan UPM sebagai pusat kecemerlangan pendidikan pertanian. Ekoran daripada itu, bidang pertanian UPM telah mendapat peruntukan belanja mengurus 2006 yang tertinggi, iaitu RM120.95 juta (26.67%) berbanding bidang-bidang lain seperti sains sebanyak RM103.63 juta (22.84%), sastera iktisas RM120.45 juta (26.55%), perubatan RM45.16 juta (9.95%) dan kejuruteraan RM63.54 juta (14.00%).

Selain daripada itu, Pejabat Bendahari senantiasa mengambil tindakan penambahbaikan secara berterusan bagi meningkatkan kualiti pengurusan kewangan ketahap yang memenuhi ekspektasi pelanggan bagi mencapai matlamat ke tujuh Pelan Strategi UPM yang mensasarkan penjanaan dan pengurusan sumber kewangan secara cekap dan berkesan.

Sijil Ketua Audit Negara

Universiti Putra Malaysia telah mendapat Sijil Bersih dari Ketua Audit Negara bagi Penyata Kewangan Universiti Putra Malaysia Berakhir Pada 31 Disember 2006

Expenditure Strategy

The main strategy for the 2006 Budget was to prepare all the infrastructural facilities, equipment and training that were needed by students, the lecturers and administrators so as to ensure that the educational and academic systems functioned smoothly. Besides these, the academicians were also channelling their research towards economic progress and development which is in line with the University's goal of being a leading contributor towards human advancement and the discovery of knowledge as well as the creation of wealth and building of the nation's economy.

UPM also emphasized development and progress of the agricultural sector. This decision was in line with the emphasis given by the Government to make UPM the centre for excellences in agricultural education. As a result of this, the agricultural sector of UPM received the highest Operating Grant in 2006, which was RM120.95 million (26.67%) compared to other sectors like Science which was RM103.63 million (22.84%), RM120.45 million (26.55 %) for Professional Arts, RM47.16 million (9.95 %) for Medicine and RM41.80 million (14.00%) for Engineering.

Apart from this, the Bursary had taken initiatives to continually improve the quality of financial management to a level which fulfilled the expectations of the clients in order to achieve the 7th Goal of the UPM Strategic Plan with the target of generating and managing financial resources efficiently and effectively.

Certificate of Auditor General

Universiti Putra Malaysia had received the Clean Certificate from the Auditor General for its Financial Statement ending 31st December 2006.

Laporan Ringkasan Kedudukan Kewangan dan Prestasi Tahun 2006 (Telah Diaudit)

A Summary Report of the Financial and Performance Status 2006 (Audited)

PERANGKAAAN KEWANGAN YANG PENTING IMPORTANT FINANCIAL STATISTICS	TAHUNYEAR		PERBEZAAN DIFFERENCE (%) +(-)
	2005 (RM)	2006 (RM)	
i. Pendapatan Mengurus Operating Income			
- Pemberian Kerajaan Government Grants	394,528,570	403,610,100	2.30
- Sumber Dalaman Internal Sources	55,734,775	47,951,640	(13.96)
	450,263,345	451,561,740	0.29
Pendapatan Pembangunan Development Income			
- Pemberian Kerajaan Government Grants	57,164,172	220,800,000	286.26
- Sumber Dalaman Internal Sources	876,903	506,112	(42.28)
	58,041,075	221,306,112	281.29
ii. Perbelanjaan Expenditure			
(a) Mengurus Operating	405,803,621	431,031,746	6.22
(b) Pembangunan Development	135,372,246	56,995,938	(57.90)
	541,175,867	488,027,684	(9.82)
iii. Lebihan/Kurangan Surplus/Deficit			
(a) Mengurus Operating	44,459,724	20,529,994	(53.82)
(b) Pembangunan Development	(77,331,171)	164,310,174	(312.48)
	(32,871,447)	184,840,168	(662.31)
iv. Lebihan/Kurangan Terkumpul Accumulated Surplus/ Deficit			
(a) Mengurus Operating	198,738,116	206,494,636	3.90
(b) Pembangunan Development	465,930,639	657,435,964	41.10
	664,668,755	863,930,600	29.98
v. Aset Tetap Fixed Assets	907,890,334	924,650,072	1.85
vi. Aset Semasa Current Assets	211,924,319	429,636,455	102.73
vii. Tanggungan Semasa Current Liabilities	41,588,425	28,929,908	(30.44)
viii. Tanggungan Jangka Panjang Long Term Liabilities	14,211,298	23,093,563	0.00
ix. Aset Bersih Net Assets	1,078,226,228	1,325,356,619	22.92
x. Modal Digunakan Utilization of Capital	170,335,894	400,706,547	135.24
xi. Rizab Tunai Cash Reserve			
- Simpanan Tetap Fixed Deposits	84,013,302	231,000,000	174.96
- Wang di Bank Cash at Bank	14,005,446	47,456,509	238.84
- Wang Dalam Tangan Cash in Hand	86,204	73,833	(14.35)
xii. Penglibatan Modal Involvement of Capital			
- Kontrak diluluskan dan terikat Approved and executed Contracts	92,862,640	55,675,163	(40.05)
- Kontrak diluluskan dan belum terikat Approved and non-executed Contracts	0	0	0.00
xiii. Nisbah Kewangan Financial Ratio			
- Aset Semasa/Tanggungan Semasa Current Asset/Current Liabilities	5.10	14.85	
- Aset Mudah Cair/Tanggungan Semasa Liquid Asset/Current Liabilities	2.36	9.63	
- Jumlah Hutang/Jumlah Aset Total Debt/Total Assets	0.10	0.02	
- Modal Digunakan/Jumlah Tanggungan Total Expended/Total Liabilities	3.05	7.70	
- Modal digunakan/Aset Tetap Capital Expended/Fixed Assets	0.19	0.43	

Penyata Ringkasan Lebihan/Kurangan Perbelanjaan Mengurus dan Pembangunan Pada Disember 2006 (Telah Diaudit)

A Summary Report Of Surplus/Deficit for Operating and Development Expenditure as at
31 December 2006 (Audited)

	2006		2005	
	MENGURUS OPERATING RM	PEMBANGUNAN DEVELOPMENT RM	MENGURUS OPERATING RM	PEMBANGUNAN DEVELOPMENT RM
PENDAPATAN INCOME				
Pemberian Kerajaan Government Grants	403,610,100	220,800,000	394,528,570	57,164,172
Hasil Universiti University Revenue	47,951,640	506,112	55,734,775	876,903
	<u>451,561,740</u>	<u>221,306,112</u>	<u>450,263,345</u>	<u>58,041,075</u>
PERBELANJAAN EXPENDITURE				
Emolumen Emolument	236,834,055	0	211,424,823	0
Bekalan dan Bahan-bahan Supplies and materials	73,041,619	0	68,100,036	0
Penyelenggaraan dan Pembaikan Maintenance and Repairs	21,320,572	0	23,309,726	0
Perkhidmatan Iktisas & Perbelanjaan Lain Professional Services and Other Expenditure	68,377,582	3,011,584	60,034,481	857,243
Pembelian Aset Tetap Purchase of Fixed Assets	31,457,918	53,984,354	42,934,555	134,515,003
	<u>431,031,746</u>	<u>56,995,938</u>	<u>405,803,621</u>	<u>135,372,246</u>
LEBIHAN/(KURANGAN) PENDAPATAN INCOME SURPLUS /(DEFICIT)	1	<u>20,529,994</u>	<u>164,310,174</u>	<u>44,459,724</u> <u>(77,331,171)</u>
LEBIHAN/(KURANGAN) TERKUMPUL ACCUMULATED SURPLUS/(DEFICIT)	2	<u>38,413,573</u>	<u>(13,556,590)</u>	<u>17,815,352</u> <u>(178,075,433)</u>

NOTA PENYESUAIAN ADJUSTMENT NOTE

Nota 1 Note 1

	2006	2005
Lebihan Pendapatan Surplus Income (seperti diatas) (as above)		
- Kumpulanwang Mengurus Operating Fund	20,529,994	44,459,724
- Kumpulanwang Pembangunan Development Fund	164,310,174	(77,331,171)
	<u>184,840,168</u>	<u>(32,871,447)</u>
Campur: Pembelian Aset Plus: Purchase of Assets	85,442,272	177,449,558
Pelarasan Item Bukan Tunai Adjustment on Noncash Items		
Geran Kerajaan Tertunda Diferred Government Grants	220,800,000	57,164,172
Pemberian Modal Direalisasi Realisation of Capital Grants	25,960,835	26,906,722
Susutnilai Depreciation	71,474,543	77,530,159
Pelunasan Tanah Amortisation of Land	74,401	74,401
Pelupusan Disposal	253,376	121,797
Hutang Ragu Doubtful Debts	1,093	1,021,760
Cukai Tax	0	0

Lebih/(Kurangan) Pendapatan		
Surplus/(Deficit) Income	3,639,862	35,572,544
Kumpulanwang DiSatukanConsolidated Fund		
Kumpulanwang Kolej KediamanResidential College Fund	918,068	814,702
Kumpulanwang PenyelidikanResearch Fund	12,157,438	(11,171,858)
Kumpulanwang Tabung Pusingan dan Amanah Lain Revolving and Other Trust Fund	20,223,221	830,702
Kumpulanwang Penginapan dan Rekreasi Accommodation and Recreation Fund	340,940	518,704
Kumpulanwang PelaburanInvestment Fund	3,958,151	1,780,149
Kumpulanwang Kursus, Seminar, Konferensi dan Lawatan Sambil Belajar Course, Seminar, Conference and Study Visit Fund	2,417,082	2,343,180
Lebih/(Kurangan) Pendapatan Universiti		
Surplus/(Deficit) University Income	<u>43,654,762</u>	<u>30,688,123</u>
(Seperti di Penyata Kewangan)(As at Financial Statements)		

Nota 2Note 2

	2006		2005	
	MENGURUS OPERATING RM	PEMBANGUNAN DEVELOPMENT RM	MENGURUS OPERATING RM	PEMBANGUNAN DEVELOPMENT RM
Kumpulanwang pada 31 Disember Fund as at 31 December (seperti di Penyata Kewangan) (as at Financial Statements)	206,494,636	657,435,964	198,738,116	465,930,639
PelarasanAdjustment				
Aset belum selesai disusutnilai Undepreciated Assets	164,648,870	637,112,791	176,792,655	449,574,784
Pembinaan dalam kemajuanWork in progress	3,432,193	33,879,763	4,130,109	194,431,288
Lebih/(Kurangan) Terkumpul				
Accumulated Surplus/(Deficit)	<u>38,413,573</u>	<u>(13,556,590)</u>	<u>17,815,352</u>	<u>(178,075,433)</u>



Diari & Peristiwa Diary of Events

Lawatan Luar Negara

JANUARI

4 Januari 2006

Mr. Anat Wonggositkul

Department of English for Business Communication, University of Thailand

16 Januari 2006

Mr. Abhijeet Gupta

Devi Ahilya University, India

18 Januari 2006

Mr. Agung Praptapa

Vice Director, Universitas Jenderal Soedirman, Indonesia

25 Januari 2006

Gabenor Mindanou, Filipina

30 Januari 2006

Prof. Dr. Ing. Wilfried Ley

Fachhochschule Aachen University, Germany



FEBRUARI

9 Februari 2006

Duta-duta, Pesuruhjaya Tinggi dan Konsulat Asing

10 Februari 2006

Dr. Wayah S. Wirotu

Vice Rector for Collaboration & Marketing Bina Nusantara University, Indonesia

15 Februari 2006

Ms. Tan Pei Kee

Executive Secretary, Tzu-Chi Technology College, Taiwan

15 Februari 2006

Mr. Abdallah Algawazi

The People's Bureau of the Great Socialist People's, Libyan Arab Jamahiriya

20 Februari 2006

Mr. Hayae Makoto

Agricultural Academty of Fukuoka, Japan

21 Februari 2006

Dekan, Fakultas Kedoktoran Taiwan, Universitas Airlangga, Indonesia

22 Februari 2006

Southwest University, China

24 Februari 2006

Duta Croatia



●●●●●●●● MAC

1 Mac 2006
Patricia Robinson
 Executive Officer, Faculty
 of Arts, The University of
 Queensland, Australia

2 Mac 2006
Alice Lu
 CLCLP Secretary, Institute
 of Linguistics, Academia
 Sinica, Taiwan



8 Mac 2006
H.E. Mr. Jerzy Kropiwnicki
 Poland Universities

8 Mac 2006
Prof. Dr. Floriana Bulic –Jakus
 Vice Dean, Faculty of Medicine, University of Zagreb, Croatia



15 Mac 2006
Ms. Lesley Hoh
 Director – Irish Medical School, Ireland

28 Mac 2006
Mr. Jiravit Jumba
 Dean, Faculty of Agriculture Nakhon si Thammarat, Rajamangala University of
 Thailand

●●●●●●●● APRIL

10 April 2006
 Embassy of the Federal Republic of
 Germany

10 April 2006
Dr. K. G. Mapanga & Dr. M. B. Mapanga
 University of Zimbabwe

30 April 2006
Dr. Ehsan Kamrani
 University of Hormozgan, Iran



●●●●●●●● MEI

14 – 19 Mei 2006
Dr. J. Farhoudi
University of Tehran, Iran

18 – 24 Mei 2006
Dr. Masoud Moghadampour
Razi Vaccine & Serum Research
Institute (RVSRI), Iran

29 Mei 2006
En. Muhd Fuad Md Aris
Pengarah Akademik, Institut Pengajian
Tinggi Al-Zuhri, Singapura

30 Mei 2006
Professor Les Copeland
University of Sydney, Australia



JUN ●●●●●●●●

5 Jun 2006
Dr. M. Faezipour
Director General, Office of International
Relations, University of Tehran

9 Jun 2006
Dato' Paduka Dr. Hj. Ismail Hj. Duraman
Naib Canselor, Universiti Brunei Darussalam

12 – 15 Jun 2006
Delegasi Sekolah Pascasarjana, Institut
Pertanian Bogor, Indonesia

16 Jun 2006
Delegasi Bangsamoro Development Agency (BDA)

16 Jun 2006
King Fadh University of Petroleum & Mineral, Saudi Arabia

19 Jun 2006
Dr. Jao Jia Horng
Director of Yulin Emergency, Response Information
Center, National Yunlin University of Science &
Technology, Taiwan

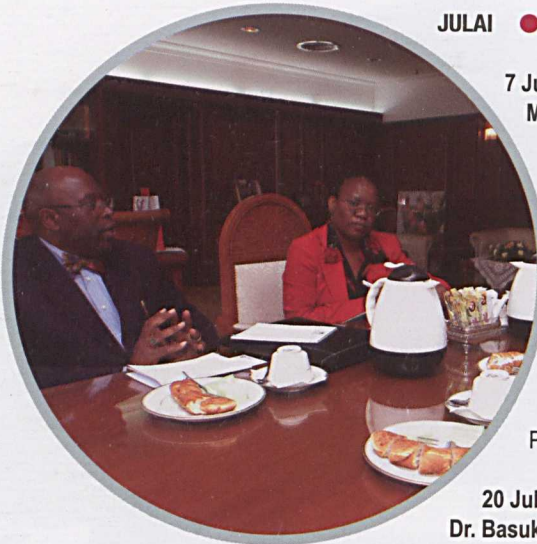
22 Jun 2006
Mrs. Aminata Sall Diallo
Cheikh Anta Diop University, Republic of Senegal

29 Jun 2006
Sekolah Nasional Berstandar International (SNBI), SMA Negeri 1,
Padang Panjang, Indonesia

29 Jun 2006
H.E. Mr. Neville Gertze, High Commisisoner of the Rep. of Namibia



JULAI ●●●●●●



7 Julai 2006

Martin Preuss Nielsen,
President of Organising Committee IAAS World Congress
2006, IAAS- Denmark

11 – 16 Julai 2006

Dr. Peter Courtland Agre
Vice Chancellor (Science & Technology), Duke
University, Durham, North

19 – 21 Julai 2006

Prof. G.R. Ghorbani
President, Isfahan Universiti of Technology

20 Julai 2006

Dr. Basuki Wibawa
Dekan, Fakultas Teknik, Universitas Negeri Jakarta

22 Jul 2006

University of Hawaii

26 Julai – 4 Ogos 2006

Martin Preuss Nielsen
President Organising Committee IAAS World Congress 2006, IAAS- Denmark

27 Jul 2006

Dr. Amir Zagazadeh
Ishfahan Medical University, Iran

28 Jul 2006

Dr. Derek Newman
Academic Programme Manager , University New Zealand



OGOS ●●●●●●

6 – 8 Ogos 2006

Dr.Haryono

Director Indonesian Agency for Agricultural Research & Development (IAARD), Jakarta

8 – 15 Ogos 2006

Dr. Yahya Magsodlou

Department of Food Science & Technology, Gorogan University of Agricultural Science & Natural Resources, Iran

21 Ogos 2006

Dr. Mohammad Adnan Latief

Universitas Negeri Malang, Indonesia

21 Ogos 2006

Mr. Johnny H. K. Teng

Marketing Officer, Marketing & Communication Division, La Trobe University, Australia

22 Ogos 2006

Dr. Steve Reid

University of Queensland, Australia

28 – 29 Ogos 2006

Lawatan dari UNEP TUNZA International Children's Conference on The Environment



29 Ogos 2006

Prof. Vernon Squire & Dr. Mike Boyes

University of Otago, New Zealand

●●●●●●●● SEPTEMBER

4 Sept 2006
Puan Hafsa Mohamad Kassim
 Dunman Secondary School, Singapore

5 Sept 2006
Georgina Douglas
 RMIT University, Melbourne Victoria, Australia

6 Sept 2006
Dr. Le Thi Hop
 National Institute of Nutrition, Vietnam

14 Sept 2006
Assoc. Prof. Jimmy Botella
 University of Queensland



17 Sept 2006
Prof. William Copeland
 Australian Centre for International Agricultural Research (ACIAR)

20 Sept 2006
Prof. Sir Ghillelan Tolmie Prance
 The University of Reading, UK



●●●●●●●● OKTOBER

5 Okt 2006
Ms. Catherine Rutter
 International Development Officer, University of Stirling, UK

NOVEMBER ●●●●●●●●

1 – 6 Nov 2006
Assoc. Prof. Hosein Resalaiti
 Gorgan University of Agricultural Science & Natural Resources
 (GUASNR), Iran

8 Nov 2006
Prof. Dr. Yugi Sugito
 Rector, Brawijaya University Malang,
 Indonesia

10 Nov 2006
**Prof. Mohamed Ahmed A El
 Sheikh**
 Vice Chancellor, Khartoum
 University, Sudan

21 Nov 2006
Dr. Shanton Lik Wen Chang
 The University of Melbourne, Australia

23 Nov 2006
 Universitas Bong Hatta, Indonesia

24 Nov 2006
Prof. Roger M. Rowell
 University of Wisconsin, USA

24 Nov 2006
Mr. Lamin S. Jaiteh
 University of Gambia

25 Nov – 1 Dis 2006
Dr. Paricher Hanachi
 Women Research Centre, Al-Zahra University, Tehran, Iran



●●●●●●●● DISEMBER

6 Dis 2006
Marlina Wong
 Vice President, Malaysian Chinese Muslim, China

Lawatan Dalam Negeri

APRIL

10 April 2006

Lawatan dari Sekolah Menengah Kebangsaan Trolak, Felda Trolak Selatan, Sungkai, Perak ke Fakulti Pertanian.

12 April 2006

Lawatan dari Sekolah Menengah Kebangsaan Pengkalan, Taman Pinji Mewah, Tronoh, Perak ke Fakulti Kejuruteraan dan Fakulti Perubatan dan Sains Kesihatan.

19 April 2006

Lawatan dari Sekolah Menengah Kebangsaan Seri Perak Teluk Intan, Perak ke Fakulti Pengajian Pendidikan.

20 April 2006

Lawatan dari Sekolah Menengah Tinggi Batu Pahat, Jalan Zaharah, Batu Pahat, Johor ke Fakulti Perubatan dan Sains Kesihatan, Fakulti Bioteknologi & Sains Biomolekul dan Lawatan sekitar kampus.

26 April 2006

Lawatan dari Sekolah Menengah Kebangsaan Seri Bahagia, Temerloh, Pahang ke Fakulti Pertanian.

26 April 2006

Lawatan dari Sekolah Menengah Kebangsaan Jalan Kebun, Shah Alam ke Fakulti Kejuruteraan serta Fakulti Bioteknologi dan Sains Biomolekul.

27 April 2006

Lawatan dari Sekolah Menengah Kebangsaan Dato' Abdul Rahman Ya'kub, Merlimau, Melaka ke Fakulti Ekonomi dan Pengurusan.

28 April 2006

Lawatan dari Sekolah Menengah Teknik Alor Star, Kedah ke Fakulti Pertanian.



FEBRUARI

8 Februari 2006

Lawatan pelajar dari Politeknik Sultan Azlan Shah, Behrang, Perak ke Fakulti Ekonomi dan Pengurusan.

14 Februari 2006

Lawatan dari Masterskill (M) Sdn. Bhd Cheras ke Fakulti Perubatan dan Sains Kesihatan.

MEI

3 Mei 2006

Lawatan dari Sekolah Menengah Kebangsaan Seri Ampangan, Jalan Kuala Pilah, Seremban ke Fakulti Ekonomi dan Pengurusan. Perpustakaan

4 Mei 2006

Lawatan dari Sekolah Menengah Kebangsaan Bandar Tasik Selatan, Bandar Tasik Selatan ke Fakulti Rekabentuk dan Senibina.

8 Mei 2006

Lawatan dari Ikatan Pengkajian IIsam Pahang, Pahang ke Universiti Putra Malaysia.

30 Mei 2006

Lawatan dari Sekolah Menengah Kebangsaan Yong Peng, Johor ke Fakulti Perubatan dan Sains Kesihatan.

31 Mei 2006

Lawatan dari Sekolah Menengah Kebangsaan Tengku Bariah, Terengganu ke Universiti Putra Malaysia.



1 Jun 2006
Lawatan dari Sekolah Menengah Kebangsaan Air Putih, Kuantan Pahang ke Fakulti Bioteknologi dan Sains Biomolekul.

1 Jun 2006
Lawatan dari Sekolah Menengah Notre Dame Convent, Melaka ke Fakulti Perubatan dan Sains Kesihatan.

5 Jun 2006
Lawatan dari Sekolah Menengah Kebangsaan Permatang Tok Kaya, Butterworth ke Lawatan sekitar kampus UPM.

5 Jun 2006
Lawatan dari Sekolah Menengah Kebangsaan Malim, Melaka ke Lawatan sekitar kampus UPM.

7 Jun 2006
Lawatan dari Sekolah Berasrama Penuh Integrasi Batu Rakit, Kuala Terengganu ke UPM.

9 Jun 2006
Lawatan dari Sekolah Menengah Kebangsaan, Temenggong Ibrahim, Johor ke Fakulti Rekabentuk dan Senibina.

12 Jun 2006
Lawatan kerja dari Bahagian Hal Ehwal Dan Pembangunan Pelajar, Universiti Sains Malaysia, Pulau Pinang ke UPM.



14 Jun 2006
Lawatan dari Sekolah Menengah Teknik Sepang, Dengkil ke Fakulti Sains dan Teknologi Makanan dan Fakulti Sains.

15 Jun 2006
Lawatan dari Sekolah Menengah Menengah Kebangsaan Taman Seri Saujana, Kota Tinggi ke UPM.

16 Jun 2006
Lawatan dari Sekolah Menengah Kebangsaan Landas, Ajil, Terengganu ke Fakulti Ekonomi dan Pengurusan.

23 Jun 2006
Lawatan dari Sekolah Menengah Kebangsaan Bandar Bukit Kayu Hitam, Jitra, Kedah ke Fakulti Pengajian Pendidikan dan sekitar kampus UPM.



26 Jun 2006
Lawatan dari Sekolah Menengah Kebangsaan Permas Jaya, Bandar Baru Permas Jaya, Johor ke Fakulti Pengajian Pendidikan.

28 Jun 2006
Lawatan kerja dari Pejabat Pelajaran Daerah, Batu Pahat ke Fakulti Pengajian Pendidikan.

28 Jun 2006
Lawatan dari Sekolah Menengah Kebangsaan Badrul Alam Shah, Kemasek, Kemaman ke Fakulti Ekonomi dan Pengurusan.

29 Jun 2006
Lawatan dari Sekolah Menengah Kebangsaan Sultan Yahya Petra (2), Kuala Krai, Kelantan ke sekitar Kampus UPM.

30 Jun 2006
Lawatan dari Unit Bimbingan Dan Kaunseling, Sekolah Kebangsaan Lktp Jengka 18, Temerloh ke UPM.



●●●●●● JULAI

7 Julai 2006

Lawatan dari Koperasi Sekolah Menengah Kebangsaan Sungai Asap Bhd, Gua Musang ke UPM.

13 Julai 2006

Lawatan dari Sekolah Menengah Kebangsaan Chukai, Kemaman ke UPM.

18 Julai 2006

Lawatan dari Sekolah Menengah Teknik, (Ekonomi Rumah tangga), Dato' Undang Hj. Muhamad Sharip, Rembau ke UPM.

18 Julai 2006

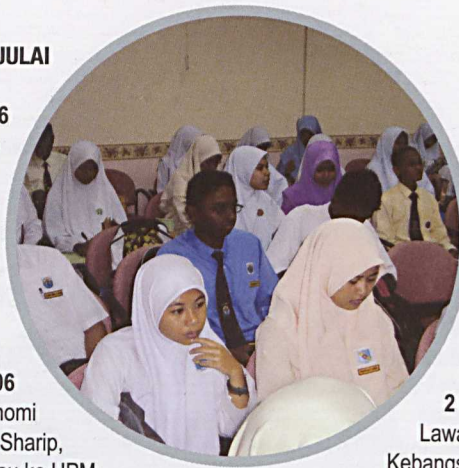
Lawatan dari Sekolah Menengah Kebangsaan Mahmud, Raub, Pahang ke Fakulti Sains.

26 Julai 2006

Lawatan dari Unit Penyeliaan Sekolah Menengah, Sektor Pengurusan Sekolah, Bandar Indera Mahkota, Kuantan ke UPM.

27 Julai 2006

Lawatan dari Sekolah Menengah Kebangsaan Sungai Bayor, Rantau Panjang, Perak ke Fakulti Sains, Fakulti Bioteknologi dan Sains Biomolekul.



●●●●●● OGOS

2 Ogos 2006

Lawatan dari Sekolah Menengah Kebangsaan Seri Pengkalan, Alor Gajah Melaka ke Fakulti Pertanian.

8 Ogos 2006

Lawatan dari Sekolah Menengah Kebangsaan Bukit Damar, Lanchang, Pahang ke Fakulti Pengajian Pendidikan, Perpustakaan dan Sekitar Kampus UPM.

11 Ogos 2006

Lawatan dari Sekolah Menengah Teknik Pontian, Mukim Rimba Terjun, Pontian ke UPM.

15 Ogos 2006

Lawatan dari Sekolah Menengah Kebangsaan Sungai Burong, Tanjong Karang ke Fakulti Ekonomi dan Pengurusan serta Perpustakaan.

18 Ogos 2006

Lawatan dari Sekolah Kebangsaan Sultan Idris 11, Kuala Kangsar, Perak ke UPM.

18 Ogos 2006

Lawatan dari Sekolah Menengah Kebangsaan Senggarang, Batu Pahat ke Fakulti Pengajian Pendidikan.

21 Ogos 2006

Lawatan dari Sekolah Menengah Kebangsaan Tengku Panglima Perang Bandar Indera Mahkota ke Fakulti Perubatan dan Sains Kesihatan.

21 Ogos 2006

Lawatan dari Sekolah Menengah Kebangsaan Raja Puan Muda Tengku Fauziah, Perlis ke UPM.

22 Ogos 2006

Lawatan dari Sekolah Menengah Kebangsaan Seri Teja, Gopeng ke UPM.

22 Ogos 2006

Lawatan dari Sekolah Menengah Kebangsaan Pangkal Kalong, Ketereh ke UPM.

24 Ogos 2006

Lawatan dari Sekolah Menengah Kebangsaan Labis, Persatuan Pertina, Muar ke Fakulti Perubatan Veterinar dan Fakulti Rekabentuk dan Senibina.

30 Ogos 2006

Lawatan dari Sekolah Menengah Kebangsaan Dato' Shahardin, Labu ke Fakulti Pertanian.



●●●●●●●● SEPTEMBER

5 September 2006

Lawatan dari Sekolah Menengah Kebangsaan Jengka 12, Pahang ke UPM.

6 September 2006

Lawatan dari Sekolah Kebangsaan Taman Desa Tebrau, Johor ke Perpustakaan UPM.

8 September 2006

Lawatan dari Kolej Matrikulasi Pulau Pinang, Kementerian Pelajaran Malaysia, Pulau Pinang ke Fakulti Perubatan dan Sains Kesihatan.

12 September 2006

Lawatan dari Sekolah Menengah Kebangsaan, Mentakab Pahang ke Fakulti Perubatan dan Sains

14 September 2006

Lawatan dari Sekolah Menengah Kebangsaan Sri Muar ke Fakulti Ekonomi dan Pengurusan.

15 September 2006

Lawatan dari Sekolah Men. Keb. Perempuan Methodist, Pahang ke Fakulti Rekabentuk dan Senibina.

21 September 2006

Lawatan dari Sekolah Jalan Kuantan (Satu) Kuala Lumpur ke UPM.

21 September 2006

Lawatan dari Sekolah Kebangsaan Kemunin, Kota Bharu ke UPM.

22 September 2006

Lawatan dari Sekolah Menengah Kebangsaan Sri Intan, Machang ke UPM.



OKTOBER ●●●●●●●●

16 Oktober 2006

Lawatan dari Sekolah Menengah Kebangsaan Sungai Ruan, Pahang ke UPM.

18 Oktober 2006

Lawatan dari Sekolah Menengah Kebangsaan Dato' Ahmad Razali ke Galeri Putra, UPM.



●●●●●● NOVEMBER

1 November 2006

Lawatan dari Sekolah Menengah Kebangsaan Padang Tengku, Pahang ke Galeri Putra UPM.

2 November 2006

Lawatan dari Sekolah Kebangsaan Hutan Melintang Perak ke Bahagian Hal Ehwal Pelajar, UPM

2 November 2006

Lawatan dari Sekolah Menengah Kebangsaan Sultan Abdul Aziz, Teluk Intan, Perak ke UPM.

6 November 2006

Lawatan dari Sekolah Menengah Kebangsaan Cenderawasih, Kuantan ke Perpustakaan Sultan Abdul Samad.

7 November 2006

Lawatan dari Sekolah Menengah Kebangsaan, Seri Kota, Melaka ke UPM.

9 November 2006

Lawatan dari Sekolah Menengah Kebangsaan Labis, Jalan Muar, ke Fakulti Bioteknologi dan Sains Biomolekul.

10 November 2006

Lawatan dari Sekolah Menengah Kebangsaan Tunku Putera ke UPM.

16 November 2006

Lawatan dari Sekolah Menengah J.K. Pei Hwa, Muar ke Fakulti Sains dan Teknologi Makanan.

29 November 2006

Lawatan dari Sekolah Kolej Matrikulasi Johor, Tangkak ke Fakulti Bioteknologi dan Sains Biomolekul serta Fakulti Ekonomi dan Pengurusan.

●●●●●● DISEMBER

11 Disember 2006

Lawatan dari Sekolah Menengah Kebangsaan Sultan Omar, Dungun ke Ladang Kesepuluh, Fakulti Pertanian.

12 Disember 2006

Lawatan dari Sekolah Menengah Kebangsaan Syed Abu Bakar, Baling ke Galeri Putra, UPM.

12 Disember 2006

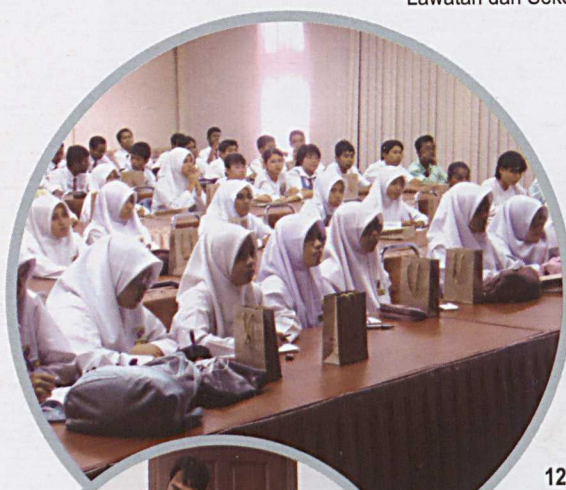
Lawatan dari Maktab Rendah Sains Mara, Pengkalan Chepa ke Fakulti Bioteknologi dan Sains Biomolekul serta Fakulti Kejuruteraan.

12 Disember 2006

Lawatan dari Maktab Rendah Sains Mara, Muar ke Fakulti Perubatan dan Sains Kesihatan.

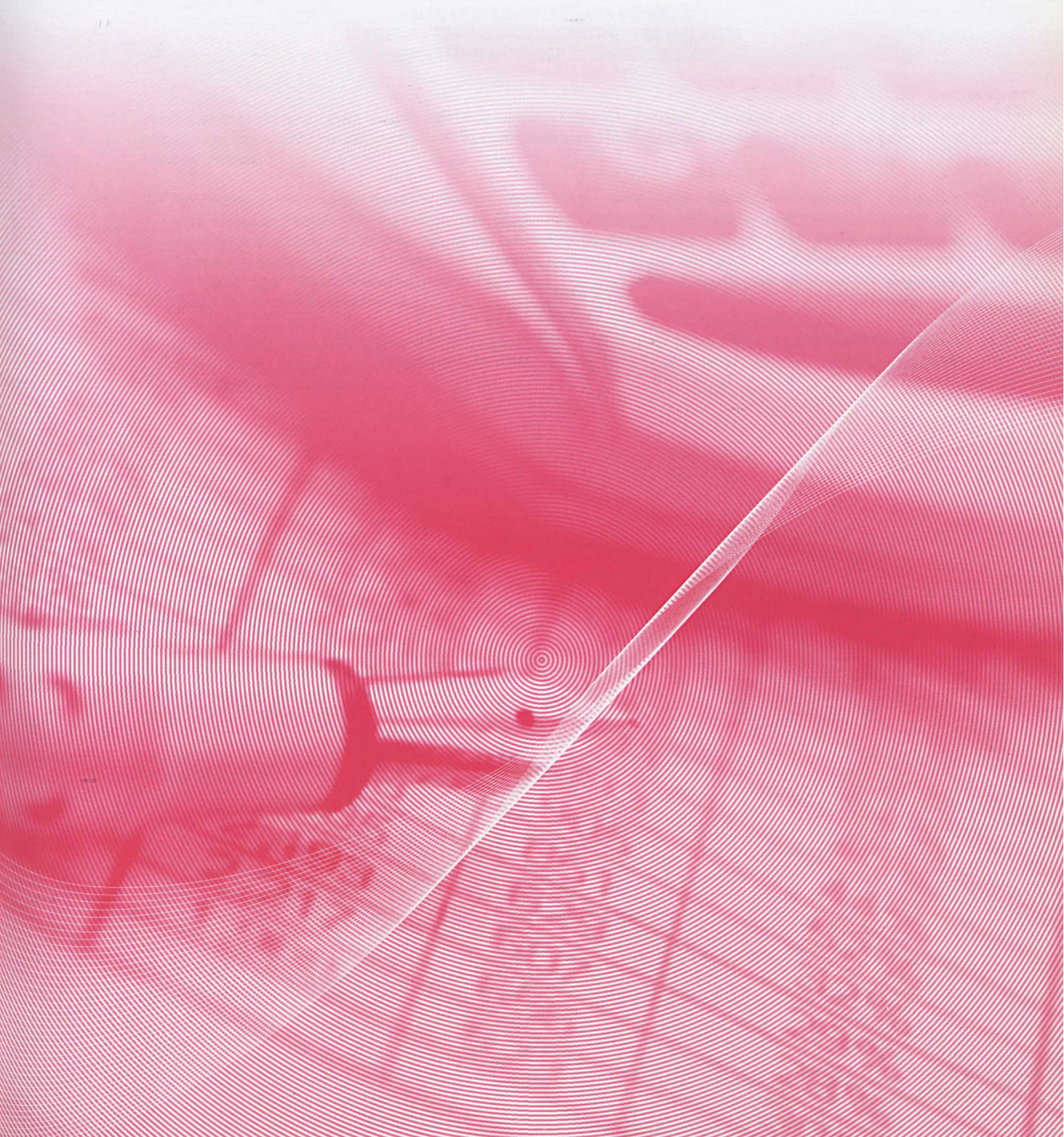
13 Disember 2006

Lawatan dari Pusat Pendidikan Yayasan Islam Terengganu, Kuala Berang ke Perpustakaan Sultan Abdul Samad.



Laporan Keuangan

Financial Report







**SIJIL KETUA AUDIT NEGARA MENGENAI
PENYATA KEWANGAN UNIVERSITI PUTRA MALAYSIA
BAGI TAHUN BERAKHIR 31 DISEMBER 2006**

Penyata kewangan Universiti Putra Malaysia bagi tahun berakhir 31 Disember 2006 telah diaudit oleh wakil saya. Pihak pengurusan bertanggungjawab terhadap penyata kewangan ini. Tanggungjawab saya adalah mengaudit dan memberi pendapat terhadap penyata kewangan tersebut.

2. Pengauditan telah dilaksanakan mengikut Akta Audit 1957 dan berpandukan piawaian pengauditan yang diluluskan. Piawaian tersebut menghendaki pengauditan dirancang dan dilaksanakan untuk mendapat kepastian yang munasabah sama ada penyata kewangan adalah bebas daripada kesilapan atau ketinggalan yang ketara. Pengauditan itu termasuk memeriksa rekod secara semak uji, menyemak bukti yang menyokong angka dan memastikan pendedahan yang mencukupi dalam penyata kewangan. Penilaian juga dibuat terhadap prinsip perakaunan yang digunakan dan penyampaian penyata kewangan secara keseluruhan.
3. Pada pendapat saya, penyata kewangan ini memberi gambaran yang benar dan saksama terhadap kedudukan kewangan Universiti Putra Malaysia pada 31 Disember 2006, hasil operasi dan aliran tunai untuk tahun tersebut berdasarkan piawaian perakaunan yang diluluskan.

(DATO' AZIZAH BT. HJ. ARSHAD)

b.p Ketua Audit Negara
Malaysia

Putrajaya
14 JUN 2007

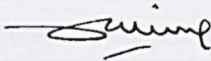


Penyata Lembaga Pengarah Board of Directors Statement

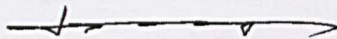
Kami, **TAN SRI DATO' SERI DR. HJ. ZAINUL ARIFF BIN HAJI HUSSAIN** dan **PROFESOR DATO' DR. NIK MUSTAPHA BIN R. ABDULLAH** yang merupakan Ahli Lembaga Pengarah UNIVERSITI PUTRA MALAYSIA, dengan ini menyatakan bahawa Penyata Kewangan dari mukasurat 188 hingga 216 adalah disediakan untuk menunjukkan pandangan yang benar dan saksama berkenaan kedudukan kewangan UNIVERSITI PUTRA MALAYSIA pada 31 Disember 2006 dan hasil kendaliannya serta aliran tunai bagi tahun berakhir pada tarikh tersebut.

We, **TAN SRI DATO' SERI DR. HJ. ZAINUL ARIFF BIN HAJI HUSSAIN** and **PROFESOR DATO' DR. NIK MUSTAPHA BIN R. ABDULLAH** as members of Board of Directors of UNIVERSITI PUTRA MALAYSIA do hereby state that the Financial Statement set out on pages 188 to 216 have been drawn up to give a true and fair view of the financial position of UNIVERSITI PUTRA MALAYSIA as at 31 December 2006 and its results including changes in cash flows for the year ending on the date stated.

Bagi pihak Lembaga Pengarah,
On behalf of the Board of Directors,



(TAN SRI DATO' SERI DR. HJ. ZAINUL ARIFF BIN HAJI HUSSAIN)
PengerusiChairman



(PROFESOR DATO' DR. NIK MUSTAPHA BIN R. ABDULLAH)
Ahli/Naib CancellorMember/Vice-Chancellor

UPM Serdang
TarikhDate: 15 Mac 2007

Akuan Berkanun Statutory Declaration

Saya, **ZULKIFLEE BIN OTHMAN**, pegawai utama yang bertanggungjawab ke atas pengurusan kewangan UNIVERSITI PUTRA MALAYSIA, dengan ikhlasnya mengakui bahawa Penyata Kewangan ini dari mukasurat 188 hingga 216, mengikut sebaik-baik pengetahuan dan kepercayaan saya, adalah betul dan saya membuat ikrar ini dengan sebenarnya mempercayai bahawa ianya itu adalah benar dan atas kehendak-kehendak Akta Akuan Berkanun, 1960.

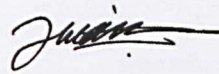
I, **ZULKIFLEE BIN OTHMAN**, the principal officer responsible for the financial management of UNIVERSITI PUTRA MALAYSIA, sincerely declare that the Financial Statement set out on pages 188 to 216 to the best of my knowledge and belief, are accurate and I make this solemn declaration in the belief that it is true and in accordance with the requirements of the Statutory Declarations Act 1960.

Sebenar dan sesungguhnya)
diakui oleh penama di atas)
di Mahkamah Sesyen Bandar)
Baru Bangi, Selangor pada)
15 Mac 2007)

Truly and solemnly declared by the)
abovenamed at Mahkamah Sesyen)
Bandar Baru Bangi, Selangor on)
15 Mac 2007)

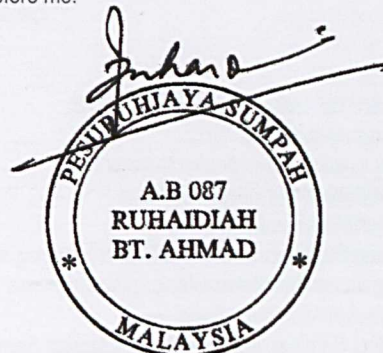
**MAHKAMAH SESYEN
BANDAR BARU BANGI SELANGOR**

15 MAR 2007



ZULKIFLEE BIN OTHMAN
Pemangku Bendahari Acting Bursar

Di hadapan saya:
Before me:



Pesuruhjaya Sumpah
(Commissioner For Oath)
Mahkamah Sesyen & Majistret
Bandar Baru Bangi

15 MAR 2007

Lembaran Imbangan Pada 31 Disember 2006

Balance Sheet as at 31 December 2006

	NOTA NOTE	2006 RM	2005 RM
HARTANAH, LOJI DAN PERALATAN PROPERTIES, PLANTS AND EQUIPMENT	5	843,422,332	668,592,778
PEMBINAAN DALAM KEMAJUAN WORK IN PROGRESS	6	37,787,567	198,913,538
PELABURAN INVESTMENT	7	43,440,173	40,384,018
ASET SEMASA CURRENT ASSETS			
Penghutang pelbagai Sundry Debtors	8	151,106,113	113,819,367
Simpanan tetap Fixed Deposits	9	231,000,000	84,013,302
Wang di tangan dan di bank Cash in hand and bank	10	47,530,342	14,091,650
		429,636,455	211,924,319
LIABILITI SEMASA CURRENT LIABILITIES			
Pemiutang pelbagai Sundry Creditors	11	25,157,202	38,005,886
Manfaat Pekerja Jangka Pendek Short-term Employee Benefits	4(a)	3,772,706	3,582,539
		28,929,908	41,588,425
ASET SEMASA BERSIH NET CURRENT ASSETS		400,706,547	170,335,894
		1,325,356,619	1,078,226,228
Dibiayai oleh: Financed by:			
KUMPULANWANG DISATUKAN CONSOLIDATED FUND			
Kumpulanwang Mengurus Operating Fund	12	206,494,636	198,738,116
Kumpulanwang Kolej Kediaman Residential College Fund	13	11,447,573	10,711,080
Kumpulanwang Pembangunan Development Fund	14	657,435,964	465,930,639
Kumpulanwang Penyelidikan Research Fund	15	117,641,471	105,727,035
Kumpulanwang Tabung Pusingan dan Amanah Lain Revolving and Other Trust Fund	16	136,642,620	116,570,595
Kumpulanwang Penginapan dan Rekreasi Accommodation and Recreation Fund	17	6,300,938	5,953,516
Kumpulanwang Pelaburan Investment Fund	18	63,913,859	60,455,708
Kumpulanwang Kursus, Seminar, Konferensi dan Lawatan Sambil Belajar Course, Seminar, Conference and Study Visits Fund	19	77,385,995	74,928,241
Kumpulanwang Pinjaman Kenderaan dan Komputer Vehicle and Computer Loan Fund	20	25,000,000	25,000,000
		1,302,263,056	1,064,014,930
LIABILITI JANGKA PANJANG LONG TERM LIABILITIES			
Manfaat Pekerja Jangka Panjang Long-term Employee Benefits	4(c)	23,093,563	14,211,298
		23,093,563	14,211,298
		1,325,356,619	1,078,226,228

Nota-nota di muka surat 193 hingga 216 adalah merupakan sebahagian daripada penyata kewangan ini.
Notes on pages 193 to 216 are an integral part of this financial statement.

Penyata Pendapatan Bagi Tahun Berakhir 31 Disember 2006

Income Statement For The Year Ended 31 December 2006

	NOTA NOTE	2006 RM	2005 RM
PENDAPATAN INCOME			
Geran kerajaan Government grants	22	441,108,938	416,998,228
Pelbagai yuran Miscellaneous fees	23	82,956,863	80,499,699
Sumbangan luar External contributions		10,043,020	14,069,852
Geran kerajaan tertunda direalisasi Realisation of deferred Government grants	21	26,206,635	27,152,522
Faedah dan dividen Interest and dividend		6,750,467	4,394,452
Untung/(Rugi) atas jualan saham Profit/(Loss) on sales of shares	7	283,403	(972,708)
Jualan aset tetap Sales of fixed assets		18,773	78,288
Hasil ladang Plantation revenue		209,356	237,007
Pengurangan peruntukan rosot nilai saham Less provision for diminution of shares	7.1	833,266	82,756
Pelbagai sewa Sundry rentals		1,332,627	2,049,575
Pendapatan lain Other income	24	53,126,208	46,386,110
		622,869,556	590,975,781
Tolak: PERBELANJAAN Less: EXPENDITURE			
Emolumen Emolument		233,266,290	210,894,392
Perbelanjaan manfaat pekerja Expenditure on employee benefit	4(c)	9,072,431	530,430
Bekalan dan bahan-bahan Supplies and materials		104,374,371	96,131,719
Penyelenggaraan dan pembaikan Maintenance and repairs		27,127,913	30,017,289
Perkhidmatan iktisas dan hospitaliti Professional services and hospitality		118,665,346	128,064,853
Susut nilai Depreciation	5	85,978,188	91,009,126
Pelunasan tanah Amortisation of land	5	74,401	74,401
Pelupusan Disposal		256,134	1,030,339
Hutang ragu Doubtful debts		399,720	2,535,109
		579,214,794	560,287,658
LEBIHAN PENDAPATAN SURPLUS INCOME			
		43,654,762	30,688,123

*Nota-nota di muka surat 193 hingga 216 adalah merupakan sebahagian daripada penyata kewangan ini.
Notes on pages 193 to 216 are an integral part of this financial statement.*

Penyata Perubahan Ekuiti

Statement of Changes in Equity

Bagi Tahun Berakhir 31 Disember 2006
For the year ended 31 December 2006

MENGURUS OPERATING	KUMPULAN WANG-KUMPULAN WANGFUNDS										Jumlah TOTAL
	KOLEJ KEDIAMAN RESIDENTIAL COLLEGE	PEMBANGUNAN DEVELOPMENT	PENYELIDIKAN RESEARCH	TABUNG PUSINGAN DAN AMANAH LAIN REVOLVING & OTHER TRUSTS FUND	PENGINAPAN DAN REKREASI ACCOMODATION & RECREATION	PELABURAN INVESTMENT	KURSUS, SEMINAR KONFERENSI DAN LAWATAN SAMBIL BELAJAR COURSE, SEMINAR, CONFERENCE & STUDY VISIT	PINJAMAN KENDERAAN DAN KOMPUTER VEHICLE & COMPUTER LOAN	RM	RM	
2006	RM	RM	RM	RM	RM	RM	RM	RM	RM	RM	RM
188,738,116	10,711,080	188,503,058	104,743,835	116,570,595	5,953,516	60,455,708	74,928,241	25,000,000	785,604,149		
0	0	0	0	0	0	0	0	0	0		
188,738,116	10,711,080	188,503,058	104,743,835	116,570,595	5,953,516	60,455,708	74,928,241	25,000,000	785,604,149		
7,687,199	918,068	(4,047,337)	12,157,438	20,223,221	340,940	3,958,151	2,417,082	0	43,654,762		
206,425,315	11,629,148	184,455,721	116,901,273	136,793,816	6,294,456	64,413,859	77,345,323	25,000,000	829,258,911		
0	(213,498)	213,498	0	0	0	0	0	0	0		
69,321	0	0	0	0	0	0	(69,321)	0	0		
0	31,923	0	0	0	0	0	(31,923)	0	0		
0	0	0	0	0	6,482	0	(6,482)	0	0		
0	0	0	(61,729)	0	0	0	61,729	0	0		
0	0	0	64,527	(151,196)	0	0	86,669	0	0		
0	0	500,000	0	0	0	(500,000)	0	0	0		
206,494,636	11,447,573	185,169,219	116,904,071	136,642,620	6,300,938	63,913,859	77,385,995	25,000,000	829,258,911		
0	0	277,427,581	983,200	0	0	0	0	0	278,410,781		
0	0	194,839,164	(245,800)	0	0	0	0	0	194,593,364		
0	0	472,266,745	737,400	0	0	0	0	0	473,004,145		
206,494,636	11,447,573	657,435,964	117,641,471	136,642,620	6,300,938	63,913,859	77,385,995	25,000,000	1,302,263,056		

Geran Kerajaan Tertunda/Deferred Government Grant
Pada 1 Januari/As at 1 January
Perubahan dalam tahun semasa Changes in current year

Penyata Perubahan Ekuiti Bagi Tahun Berakhir 31 Disember 2005

Statement of Changes in Equity For the year ended 31 December 2005

MENGURUS OPERATING	KUMPULAN WANG-KUMPULAN WANGFUNDS											JUMLAH TOTAL						
	KOLEJ KEDIAMAN RESIDENTIAL COLLEGE	PEMBANGUNAN DEVELOPMENT	PENYELIDIKAN RESEARCH	TABUNG PUSINGAN DAN AMANAH LAIN REVOLVING & OTHER TRUSTS FUND	PENGINAPAN DAN REKREASI ACCOMODATION & RECREATION	PELABURAN INVESTMENT	KURSUS, SEMINAR KONFERENSI DAN LAWATAN SAMBIL BELAJAR COURSE, SEMINAR, CONFERENCE & STUDY VISIT	PINJAMAN KENDERAAN DAN KOMPUTER VEHICLE & COMPUTER LOAN	RM	RM	RM		RM					
158,999,400	10,001,241	180,268,633	120,484,007	115,550,271	5,432,597	55,784,323	87,390,383	25,000,000	756,910,855									
1,519,211	(104,863)	(5,397,708)	(7,813)	(3,185)	(146)	0	(325)	0	(3,994,829)									
160,518,611	9,896,378	174,870,925	120,476,194	115,547,086	5,432,451	55,784,323	87,390,058	25,000,000	754,916,026									
39,216,082	814,702	(3,643,638)	(11,171,858)	830,702	518,704	1,780,149	2,343,180	0	30,688,123									
199,734,693	10,711,080	171,227,387	109,304,336	116,377,788	5,951,155	57,564,472	89,733,238	25,000,000	785,604,149									
(275,671)	0	275,671	0	0	0	0	0	0	0									
(92,000)	0	0	0	92,000	0	0	0	0	0									
(425,906)	0	0	425,906	0	0	0	0	0	0									
(203,000)	0	0	0	0	0	0	203,000	0	0									
0	0	0	(95,171)	95,171	0	0	0	0	0									
0	0	0	0	(2,361)	2361	0	0	0	0									
0	0	0	0	7,997	0	0	(7,997)	0	0									
0	0	15,000,000	0	0	0	0	(15,000,000)	0	0									
0	0	2,000,000	0	0	0	(2,000,000)	0	0	0									
0	0	0	(4,891,236)	0	0	4,891,236	0	0	0									
198,738,116	10,711,080	188,503,058	104,743,835	116,570,595	5,953,516	60,455,708	74,928,241	25,000,000	785,604,149									
0	0	247,170,131	0	0	0	0	0	0	247,170,131									
0	0	30,257,450	983,200	0	0	0	0	0	31,240,650									
0	0	277,427,581	983,200	0	0	0	0	0	278,410,781									
198,738,116	10,711,080	485,930,639	105,727,035	116,570,595	5,953,516	60,455,708	74,928,241	25,000,000	1,064,014,930									

2005

Pada 1 Januari/As at 1 January

Pelarasan tahun lalu/Prior year adjustment

- Seperti yang dinyatakan semula/As restated
Lebihan/(kurangan) pendapatan
Surplus/(deficit) income

Pindahan (dan) : Transfer (from):

Mengurus ke Pembangunan/Operating to Development
Mengurus ke Tabung Pusingan dan Amanah Lain
Operating to Revolving and Other Trust Fund
Mengurus ke Penyelidikan/Operating to Research
Mengurus ke Kursus/Seminar/Konferensi
dan Lawatan Sambil Belajar
Operating to Course, Seminar, Conference
and Study Visit

Penyelidikan ke Tabung Pusingan dan Amanah Lain
Research to Revolving and Other Trust Fund
Tabung Pusingan dan Amanah Lain ke
Peninginapan dan Rekreasi

Revolving and Other Trust Fund to
Accommodation and Recreation
Kursus, Seminar, Konferensi dan Lawatan Sambil
Belajar ke Tabung Pusingan dan Amanah Lain
Course, Seminar, Conference and Study Visit to
Revolving and Other Trust Fund

Kursus, Seminar, Konferensi dan Lawatan
Sambil Belajar ke Pembangunan
Course, Seminar, Conference and Study Visit to
Development

Pelaburan ke Pembangunan/Investment to Development
Penyelidikan ke Pelaburan/Research to Investment

Geran Kerajaan Tertunda/Deferred Government Grant

Pada 1 Januari/As at 1 January

Perubahan dalam tahun semasa/Changes in current year

Penyata Aliran Tunai Bagi tahun 31 Disember 2006

Cash Flow Statement For The Year Ended 31 December 2006

	NOTA NOTE	2006 RM	2005 RM
TUNAI DARI AKTIVITI OPERASCASH GENERATED FROM OPERATING ACTIVITIES			
Lebih pendapatanSurplus income	4	43,654,762	30,688,123
Pelarasan ke atas:Adjustment on			
SusutnilaiDepreciation	5	85,978,188	91,009,126
Pelunasan tanahAmortisation of land	5	74,401	74,401
Peruntukan susutnilaiProvision for depreciation	5	0	3,880,849
Untung atas jualan aset tetapProfit from sale of fixed assets		(18,773)	(78,288)
PelupusanDisposal	5	256,134	1,030,339
Geran kerajaan tertunda direalisasiRealisation of deferred Government grants (Untung)/Rugi atas jualan saham(Profit)/Loss from sale of share	21	(26,206,635)	(27,152,522)
Peruntukan rosotnilai sahamProvision for diminution of shares		(283,403)	972,708
Pelarasan tahun laluPrior year adjustment	25	0	(3,994,829)
Geran kerajaan tertundaDeferred Government grants		220,800,000	58,393,172
Lebih pendapatan sebelum perubahan modal kerja		323,421,408	154,740,324
Surplus income prior to changes in working capital			
Penambahan penghutangIncrease in debtors		(37,286,746)	(49,307,672)
Pengurangan pemiutangDecrease in creditors		(12,848,684)	(13,785,601)
Manfaat PekerjaEmployee benefits		9,072,431	530,430
Tunai bersih dihasilkan dari aktiviti operasiNet cash generated from operating activities		282,358,409	92,177,481
TUNAI DARI AKTIVITI PELABURANCASH FROM INVESTMENT ACTIVITIES			
Pembelian/pelarasan aset tetapPurchase/adjustment of fixed assets	5	(261,138,277)	(109,476,124)
(Penambahan)/Pengurangan pembinaan dalam kemajuan (Increase)/Decrease work in progress	6	161,125,971	(79,382,467)
Jualan aset tetapSale of fixed assets		18,773	78,288
Jualan sahamSales of shares		26,552,680	23,752,555
Pembelian sahamPurchase of shares		(26,802,663)	(47,095,994)
Simpanan dengan pengurus portfolioDeposits with portfolio manager	7	(1,689,503)	2,839,444
Tunai bersih dihasilkan dari aktiviti pelaburan		(101,933,019)	(209,284,298)
Net cash generated from investment activities			
Penambahan/(Pengurangan) bersih dalam jumlah tunai dan kesetaraan tunai		180,425,390	(117,106,817)
Net increase/(decrease) in cash and cash equivalents			
Jumlah tunai dan kesetaraan pada awal tahun		98,104,952	215,211,769
Cash and cash equivalents at beginning of the year			
Jumlah tunai dan kesetaraan pada akhir tahun		278,530,342	98,104,952
Cash and cash equivalents at the end of the year			
Tunai dan kesetaraan tunai diwakili oleh: Cash and cash equivalents represented by:			
Simpanan tetapFixed deposits	9	231,000,000	84,013,302
Wang di tangan dan di bankCash in hand and bank	10	47,530,342	14,091,650
		278,530,342	98,104,952

Sila lihat nota-nota yang mengiringi penyata kewangan ini
Please refer to the notes accompanying this Financial Statements

Nota-nota kepada Penyata Kewangan

Notes to Financial Statement

1. KEGIATAN UTAMA

Universiti Putra Malaysia (UPM) adalah sebuah universiti yang ditubuhkan di bawah Akta Universiti dan Kolej Universiti 1971. UPM beroperasi di dua lokasi di mana kampus induknya terletak di Serdang, Selangor manakala kampus cawangannya terletak di Bintulu, Sarawak.

Aktiviti utama UPM ialah untuk meningkatkan mutu pendidikan dalam usaha melahirkan siswazah yang berkualiti dan berdaya saing serta memberi penumpuan kepada aktiviti penyelidikan dan pembangunan khususnya dalam bidang pertanian yang melibatkan aktiviti bagi mencerna nilai tambah yang tinggi serta berciri komersial.

2. DASAR-DASAR PERAKAUNAN PENTING

(a) Asas Perakaunan

Penyata Kewangan UPM disediakan berdasarkan konvensyen kos sejarah dan mengikut piawaian-piawaian perakaunan yang diluluskan oleh Lembaga Piawaian Perakaunan Malaysia (MASB) dengan pengubahsuaian dibuat mengikut kesesuaian peruntukan yang telah ditetapkan oleh Akta Universiti dan Kolej Universiti (Pindaan) 1997.

(b) Pengiktirafan Pendapatan

- (i) Geran Kerajaan bagi Belanja Mengurus diakaunkan berdasarkan asas tunai dan dinyatakan dalam Penyata Pendapatan.
- (ii) Geran Kerajaan untuk projek-projek penyelidikan *Intensification Of Research In Priority Areas* (IRPA) diakaunkan di dalam Kumpulanwang Penyelidikan.
- (iii) Geran Kerajaan bagi Belanja Pembangunan yang diterima untuk membiayai kos projek modal pembangunan diakaunkan ke akaun geran kerajaan tertunda.
- (iv) Pendapatan yuran pengajian adalah berasaskan akruan dan diiktiraf apabila pelajar mendaftar dalam tahun berkenaan.
- (v) Faedah dan keuntungan dari pinjaman kenderaan dan komputer diakaunkan mengikut konsep akruan.
- (vi) Pendapatan untuk sewa diakrulkan mengikut perjanjian yang telah dipersetujui di antara UPM dan penyewa.

1. MAIN ACTIVITIES

Universiti Putra Malaysia (UPM) is a university established under University and University College Act 1971. UPM operates from two locations where the main campus is situated in Serdang, Selangor whereas the branch campus is in Bintulu, Sarawak.

UPM's main objective is to enhance the quality of education in its endeavour to produce graduates of high quality, competitive and focused towards research and development activities particularly agricultural activities that will generate value-added and commercial attributes.

2. POLICIES ON FUNDAMENTAL ACCOUNTING

(a) Basic Accounting

UPM Financial Statement is prepared based on the cost convention and accounting standards approved by the Malaysian Accounting Standards Board (MASB) in which any amendments is necessitated according to appropriate allocation stipulated in the 1997 (Amendment) University and University College Act.

(b) Income Declaration

- (i) Government grants for Operating Expenditure are accounted on the cash basis and stated in the Income Statement.
- (ii) Government grants for Intensification Of Research In Priority Areas (IRPA) are accounted in Research Funds.
- (iii) Government grants for Development Expenditure allocated to finance capital development projects are accounted into the deferred government grant.
- (iv) The revenue from tuition fee is based on accrual basis and is recognised when students registered in a particular year.
- (v) Interest and profits from computer and car loans are accounted based on the accrual concept.
- (vi) Rental income is accrued in accordance to the contract between UPM and the tenants.
- (vii) Income accrued from interests of fixed deposit in licenced financial institutions is accounted based on accrual concept except profits derived from fixed deposit via Mudharabah scheme which is recognised according to the date of maturity.

Nota-nota kepada Penyata Kewangan *(samb.)*

Notes to Financial Statement *(cont'd.)*

(vii) Pendapatan faedah ke atas simpanan tetap dari institusi kewangan berlesen diakaunkan mengikut konsep akrual kecuali keuntungan atas simpanan tetap melalui skim Mudharabah diiktiraf berdasarkan asas tunai mengikut tarikh matang.

(viii) Sumbangan diiktiraf berdasarkan asas tunai.

(c) Liabiliti Cukai Pendapatan

UPM adalah dikecualikan dari cukai pendapatan atas pendapatannya di bawah perenggan 13 Jadual 6, Akta Cukai Pendapatan 1967 kecuali bagi pendapatan dividen.

(d) Peruntukan Hutang Ragu

Peruntukan dibuat bagi hutang ragu berdasarkan kepada penyemakan akhir tahun ke atas hutang yang belum dapat dipungut. Polisi UPM dalam mengakaunkan peruntukan hutang ragu adalah seperti berikut :-

- (i) Hutang yang berusia diantara 6 - 12 bulan, peruntukan hutang ragu dibuat pada kadar 50%; dan
- (ii) Hutang yang berusia melebihi 12 bulan, peruntukan hutang ragu dibuat pada kadar 100%.

(e) Susutnilai bagi Hartanah, Loji dan Peralatan

Hartanah, loji dan peralatan dinyatakan pada kos setelah ditolak susutnilai dan ditakrifkan sebagai barang-barang tak luak yang mempunyai tempoh penggunaan ekonomik yang lebih daripada 12 bulan yang bernilai RM3,000 atau lebih setiap satu, kecuali bagi pembelian langsir, kapet, bidai dan pengadang, pinggan mangkuk, buku, ternakan dan tumbuhan tanpa mengambilkira kos dikelaskan sebagai perbelanjaan bukan harta tetap.

Tanah dipermodalkan mulai tahun 1993 dan tanah milik bebas tidak dilunaskan manakala tanah pajakan dilunaskan samarata mengikut tempoh pajakan.

Mulai tahun kewangan 2001, semua bangunan yang dibina sebelum tahun 1984 telah dipermodalkan.

Susutnilai dikira berasaskan kaedah garis lurus ke atas anggaran hayat kegunaan aset berkenaan. Kadar susutnilai tahunan yang digunakan adalah seperti berikut :-

Bangunan dan pembaikan bangunan 2%
Infrastruktur dan kemudahan 5%
Kenderaan dan jentera 20%
Perabot dan kelengkapan 20%
Mesin dan komputer 20%

(viii) Contributions are recognised on the cash basis.

(c) Income Tax Liability

UPM is exempted from income tax upon its revenue as stipulated in paragraph 13 Table 6, 1967 Income Tax Act except for income derived from dividends.

(d) Provision for Doubtful Debt

Provision is made for doubtful debt based on year end final revision on uncollected debts. UPM's policies in accounting for doubtful debt are as follow:

- (i) For debts aged between 6 - 12 months, provision for doubtful debt is set at the rate of 50%, and;
- (ii) For debts aged more than 12 months, provision for doubtful debt is set at the rate of 100%..

(e) Depreciation of Properties, Plants and Equipment

Depreciation in the value of properties, plants and equipment is indicated by cost after subtracting the depreciation value and it is defined as non-decreased goods which lasts more than 12 month valued at RM30,00 or more each, except for the purchase of curtains, carpets, blinds and partitions, dinnerware, books, livestock and plants without considering cost is classified as expenditure on non-fixed asset expenses.

Land has been capitalised since 1993 and freehold land is not amortised whereas leasehold land is amortised equally over the lease period.

Starting from 2001 fiscal year, all buildings erected before 1984 have been capitalised.

Depreciation is calculated based on straight line method over the estimated useful life of an asset. The rates of annual depreciation are as follows:

Buildings and maintenance of buildings 2%
Infrastructure and facilities 5%
Vehicles and machinery 20%
Furniture and fitting 20%
Machine and computer 20%

(f) Impairment of Assets

If there was sign of depreciation on an asset, the asset will be revalued and the value will be further decreased until it reaches an attainable value.

Nota-nota kepada Penyata Kewangan *(samb.)*

Notes to Financial Statement *(cont'd.)*

(f) Rosotnilai Aset

Jika terdapat tanda rosotnilai pada aset, nilai dibawa untuk aset tersebut akan dinilai semula dan seterusnya diturunkan kepada nilai yang boleh dicapai.

(g) Pembinaan Dalam Kemajuan

Pembinaan dalam kemajuan adalah kerja-kerja yang masih belum disempurnakan pada akhir tahun kewangan. Jumlah yang diambil kira adalah semua perbelanjaan yang terlibat dengan projek berkaitan. Kos pembinaan akan dipindahkan ke hartanah, loji dan peralatan yang berkenaan apabila Sijil Perakuan Siap Kerja dikeluarkan.

(h) Pelaburan

Pelaburan dinyatakan pada kos ditolak rosotan nilai pelaburan berkenaan.

(i) Tunai dan Kesetaraan Tunai

Tunai dan kesetaraan tunai terdiri daripada tunai di tangan, baki di bank, simpanan tetap dan pasaran wang di dalam institusi kewangan.

(j) Geran Kerajaan Bagi Projek Pembangunan

Mulai tahun 2001, UPM telah mengubah polisi perakaunan berkenaan dengan Geran Kerajaan bagi projek pembangunan bersesuaian dengan kehendak MASB 31 – Accounting for Government Grants and Disclosure of Government Assistance. Geran Kerajaan untuk projek pembangunan diiktiraf sebagai geran tertunda dan akan direalisasikan mengikut susutnilai projek yang telah siap dan aset yang dibeli serta belanja operasi yang tidak dimodalkan.

(k) Pertukaran Matawang Asing

Urusniaga dalam matawang asing sepanjang tahun ditukar kepada Ringgit Malaysia pada kadar pertukaran yang berkuatkuasa pada tarikh urusan tersebut.

Keuntungan atau kerugian pertukaran yang timbul daripada penjelasan urusan niaga matawang asing diiktiraf sebagai item biasa di dalam penyata pendapatan.

Item-item di lembaran imbalan tiada melibatkan transaksi yang mempunyai nilai dalam matawang asing.

(g) Work in Progress

Work in progress refers to work still in progress at the end of a financial year. The total cost takes into account all cost incurred in the project. Construction cost will be transferred to properties, plants and equipment upon issuance of Work Completion Endorsement Certificate.

(h) Investment

Investment is stated at the cost less provision for diminution of investment.

(i) Cash and Cash Equivalent

Cash and cash equivalent include cash at hand, balance in the bank, fixed deposits and money market in financial institutions.

(j) Government Grants for Development Project

Starting from 2001, UPM has changed its accounting policy regarding the Government Grant for development project in line with the requirement of MASB 31 – Accounting for Government Grants and Disclosure of Government Assistance. The Government grant for development project is recognized as deferred grant and will be realised due to depreciation of the completed project and asset purchased as well as non-capital operational expenditure.

(k) Foreign Currency Exchange

Transactions in foreign currency throughout the year are converted to Ringgit Malaysia at the exchange rate on the date of the business transactions.

Profit or loss for the currency exchange transactions are recognised as ordinary item in the income statement.

Items in the balance sheet do not involved transactions in foreign currency.

Nota-nota kepada Penyata Kewangan *(samb.)*

Notes to Financial Statement *(cont'd.)*

3. POLISI PENGURUSAN RISIKO KEWANGAN

Polisi pengurusan risiko kewangan UPM adalah untuk memastikan ianya mempunyai sumber-sumber kewangan yang mencukupi untuk menjalankan operasinya dengan lancar. UPM membiayai operasinya dengan geran kerajaan, sumbangan luar dan dana dalaman dan oleh itu tidak terdedah kepada risiko kewangan.

Polisi UPM bagi aktiviti yang berisiko kewangan adalah seperti berikut :-

(a) Risiko Pelaburan

UPM melabur melalui pengurus dana yang dilantik dan pengurusanannya perlu mengikut mandat yang ditetapkan oleh Jawatankuasa Tetap Kewangan. Mandat tersebut menekankan supaya tidak menjejaskan pelaburan pokok tetapi menghasilkan kadar pulangan yang lebih tinggi daripada kadar simpanan tetap institusi kewangan.

(b) Risiko Kecairan dan Aliran Tunai

UPM menguruskan aliran tunai bagi memastikan kesemua keperluan pembayaran dipenuhi. Di antara kaedah pengurusan kecairan yang diamalkan adalah untuk memastikan tahap tunai dan simpanan tetap boleh ditukar kepada tunai bagi memenuhi keperluan kecairan aliran tunai dari masa ke semasa.

(c) Risiko Kredit

Risiko kredit UPM kebanyakannya timbul daripada akaun-akaun belum terima. Akaun-akaun ini adalah dipantau dari masa ke semasa melalui prosedur-prosedur pengurusan dan tindakan akan diambil bagi hutang yang tertunggak.

(d) Risiko Pertukaran Matawang Asing

UPM terdedah kepada risiko pertukaran matawang asing dalam pembayaran dan penerimaan di mana sebahagian besar didominasi dalam matawang US Dollar, Euro dan British Pound. UPM tidak menangani risiko pertukaran matawang asing. Keuntungan atau kerugian atas tukaran matawang asing diambilkira dalam penyata pendapatan.

3. FINANCIAL RISK MANAGEMENT POLICY

UPM's financial risk management policy is to ensure that it has adequate financial resources to operate effectively. UPM runs its operations by government grant, external resources and internal fund and hence, is not exposed to financial risk.

UPM's policy for financial risk activities are as follows:-

(a) Investment Risk

UPM invests through the appointed fund manager and its management is required to follow the mandate given by the Permanent Financial Committee. The mandate emphasizes that investment should not affect the capital investment but to obtain the higher return rate than the fixed deposit rate given by the financial institution.

(b) Liquidity and Cash Flow Risk

UPM manages its cash flow to ensure all payment requirement is fulfilled. Amongst the liquidity management method practised is to ensure the cash level and fixed deposits that can be changed to cash to fulfill the cash flow liquidity requirement from time to time.

(c) Credit Risk

UPM's credit risk is from non-receivable accounts. These accounts are monitored from time to time through management procedures and actions will be taken on debts.

(d) Foreign Currency Exchange Risk

UPM is exposed to the foreign currency exchange risk in payment and acceptance which are largely dominated by US Dollar, Euro and British Pound. UPM does not handle foreign currency exchange risk. Profit or loss is accounted in the income statement.

Nota-nota kepada Penyata Kewangan *(samb.)*

Notes to Financial Statement *(cont'd.)*

4. MANFAAT PEKERJA

(a) Manfaat Pekerja Jangka Pendek

Upah, gaji, bonus dan sumbangan keselamatan sosial dikira sebagai perbelanjaan dalam tahun di mana perkhidmatan berkaitan diberikan oleh pekerja. UPM juga telah mengakaunkan bayaran ganjaran cuti rehat bagi pekerja tetap yang akan bersara pada tahun berikutnya serta bayaran pampasan bagi pekerja kontrak yang akan tamat pada tahun berikutnya sebagai liabiliti manfaat pekerja jangka pendek.

(b) Pelan Caruman Tetap

UPM membuat caruman kepada KWSP bagi pekerja yang memilih faedah KWSP atau Tabung Amanah Pencen Kerajaan bagi staf yang telah diletakkan di dalam skim pencen dan sumbangan tersebut diambilkira sebagai perbelanjaan di dalam Penyata Pendapatan apabila perbelanjaan tersebut dilakukan.

(c) Manfaat Pekerja Jangka Panjang

Mulai tahun kewangan berakhir 31 Disember 2004, UPM telah menerima pakai keperluan MASB 29 - Employee Benefits yang mana bayaran manfaat pekerja yang dibayar selepas persaraan diiktiraf secara akruan dalam Penyata Pendapatan tahun semasa sebagai Perbelanjaan Manfaat Pekerja dan di dalam Lembaran Imbangan sebagai liabiliti yang dikenali sebagai Manfaat Pekerja Jangka Panjang.

Jenis manfaat pekerja jangka panjang yang diiktiraf secara akruan adalah bagi bayaran gantikan cuti rehat untuk pekerja yang telah mencapai umur 48 tahun dengan andaian seseorang pekerja akan mengumpulkan cuti tahunannya sebanyak 15 hari setahun sehingga mencapai maksimum 120 hari semasa ianya bersara. Kadar gaji semasa telah digunakan untuk mengira amaun liabiliti tersebut.

Mulai tahun kewangan berakhir 31 Disember 2006, UPM telah mengiktiraf bayaran pampasan bagi pekerja kontrak yang akan tamat selepas tahun berikutnya sebagai Perbelanjaan Manfaat Pekerja dan didalam Lembaran Imbangan sebagai liabiliti yang dikenali sebagai Manfaat Pekerja Jangka Panjang.

4. EMPLOYEE'S BENEFITS

(a) Short Term Benefits

Wage, salary, bonus and social security contribution are counted as expenditure in the year in which the service is given by the employees. UPM also has accounted the payment for annual leave reward for permanent employees who will be retiring the following year and also compensated payment for the contract staff who would be ending the service the following year as a short term benefit for the employees.

(b) Fixed Contribution Plan

UPM contributes to Employees Provident Fund (EPF) for the employees who choose EPF or Government Pension Trust Fund for staff who choose the pension scheme in which the contributions is counted as an expenditure in the income statement when the expenses are paid.

(c) Long Term Benefits

Starting from the financial year ending at 31 Disember 2004, UPM has used the requirement of MASB 29 - Employee Benefits in which payment or employee benefits is paid after retirement is recognised accrually in the income statement in the current year as the Employee Benefits Expenditure and in the Balance Sheet as liability known as the Employees' Long Term Benefit.

The employees' long term benefit type which is recognised accrually is the payment for leave replacement for employee who has reach 48 years of age with the assumption that an employee would accumulate his annual leave for 15 days per year until it reaches its maximum of 120 days on his retirement. The current salary rate is used in determining the amount of the liability.

Starting from the financial year ending 31 Disember 2006, UPM has recognised compensation for contract staff who would be ending their services after the following year as Employees Benefit Expenditure and in the Balance Sheet as liability known as Long Term Employee Benefits.

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

5. HARTANAH, LOJI DAN PERALATAN PROPERTIES, PLANT AND EQUIPMENT

2006

(a) Kumpulanwang Mengurus Operating Fund

Tanah pajakan/Leasehold land
Tanah milik kekal/Freehold land
Bangunan/BUILDING
Infrastruktur & kemudahan
Infrastructure & Facilities
Kenderaan dan jentera
Vehicles and Machinery
Perabot dan kelengkapan/Furniture and fittings
Mesin dan komputer/Machines and computer

KOS COST		SUJUTNILAIDEPRECIATION		NILAI BUKU BERSIH NET BOOK VALUE							
1 Januari 1 January	Tambahan Addition	Pelupusan Disposal	31.12.2006	1 Januari 1 January	Tambahan Addition	Pelupusan Disposal	31.12.2006	1 Januari 1 January	Tambahan Addition	Pelupusan Disposal	31.12.2006
RM	RM	RM	RM	RM	RM	RM	RM	RM	RM	RM	RM
6,802,736	0	0	6,802,736	2,327,809	74,401	0	2,402,210	4,400,526	4,474,927		4,474,927
8,962,151	0	0	8,962,151	0	0	0	0	8,962,151	8,962,151		8,962,151
55,091,875	3,004,817	82,675	58,014,017	5,498,199	1,161,934	27,236	6,632,897	51,381,120	49,593,676		49,593,676
41,255,842	5,609,613	9,496	49,855,959	7,258,767	2,493,423	1,900	9,750,290	40,105,669	36,997,075		36,997,075
21,491,573	2,235,051	1,491,501	22,235,123	15,975,643	3,066,760	1,491,449	17,550,954	4,684,169	5,515,930		5,515,930
13,915,344	1,319,054	353,756	14,880,642	9,736,899	2,242,827	353,426	11,626,300	3,254,342	4,178,445		4,178,445
249,392,546	19,987,299	2,205,023	267,174,822	182,322,095	35,172,538	2,180,704	215,313,929	51,860,893	67,070,451		67,070,451
399,12,067	32,155,834	4,142,451	427,925,450	223,119,412	44,211,883	4,054,715	263,276,560	164,648,870	176,792,655		176,792,655

(b) Kumpulanwang Pembangunan Development fund

Bangunan/BUILDING
Infrastruktur & kemudahan
Infrastructure & facilities
Kenderaan dan jentera
Vehicles and machinery
Perabot dan kelengkapan/Furniture and fittings
Mesin dan komputer/Machines and computer

KOS COST		SUJUTNILAIDEPRECIATION		NILAI BUKU BERSIH NET BOOK VALUE							
1 Januari 1 January	Tambahan Addition	Pelupusan Disposal	31.12.2006	1 Januari 1 January	Tambahan Addition	Pelupusan Disposal	31.12.2006	1 Januari 1 January	Tambahan Addition	Pelupusan Disposal	31.12.2006
RM	RM	RM	RM	RM	RM	RM	RM	RM	RM	RM	RM
379,635,100	207,929,843	123,543	587,491,400	44,753,495	12,534,513	32,271	57,255,737	530,235,663	334,931,605		334,931,605
123,691,636	1,053,354	107,032	124,637,958	23,730,036	6,237,249	39,440	29,927,845	94,710,113	99,961,600		99,961,600
204,005,660	540,051	70,350	2,509,757	1,899,324	185,099	69,792	2,014,631	495,126	140,732		140,732
156,690	215,234	72,257	1,708,667	1,423,048	110,193	72,249	1,460,992	247,675	142,642		142,642
135,404,883	5,302,226	795,649	139,911,460	121,006,678	8,270,007	789,439	128,487,246	11,424,214	14,398,205		14,398,205
642,397,365	215,040,708	1,168,831	856,299,242	192,812,581	27,337,061	1,003,191	219,146,451	637,112,791	449,574,784		449,574,784

(c) Kumpulanwang Penyelidikan Research Fund

Bangunan/BUILDING
Infrastruktur & kemudahan
Infrastructure & facilities
Kenderaan dan jentera
Vehicles and machinery
Perabot dan kelengkapan/Furniture and fittings
Mesin dan komputer/Machines and computer

KOS COST		SUJUTNILAIDEPRECIATION		NILAI BUKU BERSIH NET BOOK VALUE							
1 Januari 1 January	Tambahan Addition	Pelupusan Disposal	31.12.2006	1 Januari 1 January	Tambahan Addition	Pelupusan Disposal	31.12.2006	1 Januari 1 January	Tambahan Addition	Pelupusan Disposal	31.12.2006
RM	RM	RM	RM	RM	RM	RM	RM	RM	RM	RM	RM
657,194	207,074	0	864,268	218,763	17,285	0	236,048	628,220	438,431		438,431
151,9,995	3,340	0	1,633,335	648,442	8,1167	0	729,609	893,726	971,553		971,553
667,412	0	0	667,412	349,645	112,629	0	462,274	205,138	317,767		317,767
612,001	58,176	0	670,177	467,728	59,587	0	527,315	142,862	144,273		144,273
74,349,847	9,289,456	406,386	83,232,917	54,773,905	8,755,556	403,652	63,125,809	20,107,108	19,575,942		19,575,942
77,066,449	9,558,046	406,386	87,038,109	56,458,483	9,026,224	403,652	65,081,055	21,977,054	21,447,966		21,447,966

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

5. HARTANAH, LOJI DAN PERALATAN (samb.) PROPERTIES, PLAN AND EQUIPMENT (cont'd.)	KOS COST		SUSUT NILAI DEPRECIATION		NILAI BUKU BERSIH NET BOOK VALUE							
	1 Januari 1 January RM	Tambahan Addition RM	Pelupusan Disposal RM	31.12.2006 RM	1 Januari 1 January RM	Tambahan Addition RM	Pelupusan Disposal RM	31.12.2006 RM	2005 RM	2006 RM	2005 RM	2006 RM
(d) Kumpulanwang Amanah Lain*												
Other Trust Fund*												
Bangunan Building	4,920,486	0	0	4,920,486	458,919	98,410	0	557,329	4,363,157	4,461,567		
Infrastruktur & kemudahan Infrastructure & facilities	4,220,958	647,278	0	4,868,236	1,321,540	243,412	0	1,564,952	3,303,284	2,899,418		
Kenderaan dan jentera Vehicles and machinery	6,837,964	337,225	100,381	7,074,808	4,728,387	1,115,843	100,380	5,743,850	1,330,958	2,109,577		
Perabot & kelengkapan Furniture and fittings	1,495,772	501,169	7,550	1,983,991	950,514	314,032	7,548	1,256,998	732,393	545,258		
Mesin dan komputer Machines and computer	19,517,488	2,421,788	96,198	21,873,078	11,980,035	3,242,188	96,177	15,126,026	6,747,052	7,567,453		
	37,022,668	3,907,460	204,129	40,723,999	19,439,395	5,013,865	204,105	24,249,155	16,476,844	17,583,273		
(e) Kumpulanwang Kolej Kediaman Residential Fund												
Bangunan Building	1,842,912	0	0	1,842,912	131,056	36,859	0	167,915	1,674,997	1,711,856		
Infrastruktur & kemudahan Infrastructure & facilities	893,336	38,946	0	932,282	180,239	46,183	0	226,422	705,860	713,097		
Kenderaan dan jentera Vehicles and machinery	98,435	0	0	98,435	95,398	1,736	0	97,134	1,301	3,037		
Perabot & kelengkapan Furniture and fittings	618,481	134,690	0	753,171	530,118	62,699	0	592,817	160,354	88,363		
Mesin dan komputer Machines and computer	2,471,702	302,593	0	2,774,295	1,793,955	316,079	0	2,110,034	664,261	677,747		
	5,924,866	476,229	0	6,401,095	2,730,766	483,556	0	3,194,322	3,206,773	3,194,100		
Jumlah Total	1,163,153,415	261,138,277	5,921,797	1,418,368,895	494,560,637	86,052,589	5,665,663	574,947,563	843,422,332	668,592,778		

Termasuk di dalam lambaian hartanah, loji dan peralatan adalah sejumlah RM215,446,702 (2005: RM64,483,274) pindahan dari pembinaan dalam kemajuan yang telah siap dalam tahun semasa.

* Jumlah aset dalam Kumpulanwang Amanah Lain adalah jumlah aset yang digabungkan daripada Kumpulanwang Tabung Pusingan dan Amanah Lain, Kumpulanwang Penginapan dan Rekreasi dan Kumpulanwang Kursus, Seminar, Konferensi dan Lawatan Sambili Belajar.

Included in land, plant and equipment addition is the sum of RM215,446,702 (2005: RM64,483,274) which has been transferred from works in progress completed in current year.

* Total assets in Other Trust Fund is the total assets which has been consolidated from Revolving and Other Trust Fund, Accommodation and Recreation Fund and Course, Seminar, Conference and Study Visit Fund.

Nota-nota kepada Penyata Kewangan *(samb.)*

Notes to the Financial Statement *(cont'd.)*

6. PEMBINAAN DALAM KEMAJUAN WORK IN PROGRESS

	Pada awal tahun Beginning of the year	Tambahan Addition	Pindahan ke Penyelenggaraan Transfer to maintenance	Pindahan ke Hartanah, Loji dan Peralatan Transfer to properties, plant and equipment	Pada akhir tahun Year end
	RM	RM	RM	RM	RM
2006					
Bangunan dan Pembaikan Buildings and Repairs	191,702,432	49,794,888	0	209,105,146	32,392,174
Kemudahan dan Pembaikan Facilities and Repairs	6,858,966	4,028,605	0	5,967,788	4,919,783
Harta Modal Yang Lain Other Capital Properties	352,140	497,238	0	373,768	475,610
Penyelenggaraan Maintenance	0	360,175	360,175	0	0
Lain-Lain Others	0	0	0	0	0
	198,913,538	54,680,906	360,175	215,446,702	37,787,567
2005					
Bangunan dan Pembaikan Buildings and Repairs	105,518,860	133,851,116	0	47,667,544	191,702,432
Kemudahan dan Pembaikan Facilities and Repairs	13,998,666	9,567,629	0	16,707,329	6,858,966
Harta Modal Yang Lain Other Capital Properties	0	460,541	0	108,401	352,140
Penyelenggaraan Maintenance	0	928,431	928,431	0	0
Lain-Lain Others	13,545	0	13,545	0	0
	119,531,071	144,807,717	941,976	64,483,274	198,913,538

Pada tahun 2006, pembinaan dalam kemajuan sebanyak RM215,446,702 (2005 : RM64,483,274) telah dipindahkan ke hartanah, loji dan peralatan, RM360,175 (2005: RM941,976) dipindahkan ke penyelenggaraan.

In the year 2006, work in progress amounting RM215,446,702 (2005: RM64,483,274) has been transferred to properties, plant and equipment, RM360,175 (2005: RM941,976) has been transferred to maintenance.

Nota-nota kepada Penyata Kewangan *(samb.)*

Notes to the Financial Statement *(cont'd.)*

7. PELABURAN INVESTMENT

	2006 RM	2005 RM
(a) Kumpulanwang Pelaburan Investment Fund		
Pelaburan tersiarharga - di Malaysia, pada kos Quoted investment - in Malaysia, at cost	8,891,021	9,146,499
Tolak Less:		
Peruntukan rosot nilai pelaburan Provision for diminution of investments	(596,495)	(1,316,447)
Nilai pasaran pelaburan tersiarharga - di Malaysia Market value of quoted investment - in Malaysia	8,294,526	7,830,052
Campur Add:		
Pelaburan tidak tersiarharga - di Malaysia Unquoted investment - in Malaysia	500,000	500,000
Simpanan dengan Pengurus Portfolio Deposits with Portfolio Manager	2,179,427	1,837,038
	10,973,953	10,167,090
(b) Kumpulanwang Tabung Pusingan dan Amanah Lain Revolving and Other Trust Fund		
Pelaburan tersiarharga - di Malaysia, pada kos Quoted investment - in Malaysia, at cost	24,866,912	24,078,048
Tolak Less:		
Peruntukan rosot nilai pelaburan Provision for diminution of investments	0	(113,314)
	24,866,912	23,964,734
Campur Add:		
Simpanan dengan Pengurus Portfolio Deposits with Portfolio Manager	7,599,308	6,252,194
	32,466,220	30,216,928
Jumlah Pelaburan Total Investment	43,440,173	40,384,018

Modal permulaan pelaburan bernilai RM38.38 juta yang terdiri dari RM8.38 juta daripada Kumpulanwang Pelaburan dan RM30 juta daripada Kumpulanwang Tabung Pusingan dan Amanah Lain. Peningkatan sebanyak RM3.06 juta dari RM40.38 juta kepada RM43.44 juta adalah setelah mengambilkira jumlah keuntungan atas jualan saham berjumlah RM283,403 dan pengurangan rosot nilai saham berjumlah RM833,266.

The initial investment of RM38.38 million comprises of RM8.38 million from the Investment Fund and RM30 million from the Revolving and Other Trust Fund. The increase of RM3.06 million from RM40.38 million to RM43.44 million is after taking into consideration total profit from the sale of RM283,403 and the reduction of diminution of shares amounting RM833,266.

7.1 PERUNTUKAN ROSOT NILAI PELABURAN PROVISION FOR DIMINUTION OF INVESTMENT

	2006 RM	2005 RM
Baki awal tahun Balance at beginning of year	1,429,761	1,512,517
Tolak Less:		
Kurangan dalam tahun Decrease in current year	(833,266)	(82,756)
	596,495	1,429,761

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

8. PENGHUTANG PELBAGAI SUNDRY DEBTORS

KUMPULANWANG-KUMPULANWANG FUNDS

PERKARA ITEM	KUMPULANWANG-KUMPULANWANG FUNDS										JUMLAH TOTAL 2005
	MEINGURUS OPERATING	KOLEJ KEDIAMAN RESIDENTIAL COLLEGE	PEMBANGUNAN DEVELOPMENT	PENYELIDIKAN RESEARCH	TABUNG PUSINGAN DAN AMANAH LAIN REVOLVING & OTHER TRUSTS FUND	PENGINAPAN DAN REKREASI ACCOMODATION & RECREATION	PELABURAN INVESTMENT	KURSUS, SEMINAR DAN KONFERENSI DAN LAWATAN SAMPIL BELAJAR COURSE, SEMINAR, CONFERENCE & STUDY VISIT	KENDERAAN DAN KOMPUTER VEHICLE & COMPUTER LOAN	JUMLAH TOTAL 2006	
	(RM)	(RM)	(RM)	(RM)	(RM)	(RM)	(RM)	(RM)	(RM)	(RM)	(RM)
Siberhutang Debtors	13,599,398	0	0	0	0	0	0	10,215,555	23,814,953	28,158,793	
Yuran Tertunggak Accrued Fees	12,853,353	0	0	201,170	6,615,097	0	0	19,827,576	39,497,196	70,533,585	
Faedah Simpanan Tetap Terakru Accrued fixed deposit interest	411,386	0	0	0	0	0	22,296	0	433,682	272,664	
Geran Kerajaan Terakru Accrued Government grants	0	0	100,000,000	16,834,077	0	0	0	0	116,834,077	51,184,172	
Bantuan Pendahuluan Projek (Pembangunan) Project Advance Assistance (Development)	0	0	0	0	0	0	0	0	0	2,071,265	
Pengurus Portfolio Portfolio Manager	0	0	0	0	0	0	41,315	0	41,315	378,841	
Pendahuluan Pegawai dan Pelajar UPM Advances to UPM officers & students	361,946	2,769	0	198,701	358,626	2,510	0	97,028	1,021,580	961,515	
Cagarang Deposits	534,948	320	20,000	0	19,050	0	0	0	574,318	459,720	
Jumlah Total	27,761,031	3,089	100,020,000	17,233,948	6,992,773	2,510	63,611	19,924,604	182,217,121	154,020,555	
Tolak: Less:											
Peruntukan Hutang Ragu Provision for doubtful debts	12,956,541	0	0	105,520	3,093,247	0	0	14,955,700	31,111,008	40,201,188	
	14,804,490	3,089	100,020,000	17,128,428	3,899,526	2,510	63,611	4,988,904	151,106,113	113,819,367	

Angka-angka penghutang pelbagai adalah nilai bersih setelah diselaraskan dalam proses penyatuan item-item kontra antara akaun-akaun penghutang dan pemutang. Figures for sundry debtors represent net values adjusted after reconciliation of the contra items between creditor and debtor accounts.

Nota-nota kepada Penyata Kewangan *(samb.)*

Notes to the Financial Statement *(cont'd.)*

8.1. HUTANG PECAH KONTRAK/BREACH OF CONTRACTS

Hutang pecah kontrak yang dianggarkan tetapi tidak diakaunkan sebagai sebahagian daripada jumlah hutang:
Breach of contracts debts which has been estimated but yet not to be accounted as part of the total debt:

	2006 RM	2005 RM
Staf UPM yang melanggar perjanjian cuti belajar UPM staff who have breached study leave contracts	2,861,325	2,254,708
Pelajar Pasca Siswazah yang tidak menamatkan pengajian Post-graduate students who have not completed studies	680,210	687,811
	3,541,535	2,942,519

8.2. MULTIMEDIA TECHNOLOGY ENHANCEMENT OPERATION SDN BHD (METEOR)

Multimedia Technology Enhancement Operation Sdn Bhd (Meteor)

Jumlah berikut telah diakaunkan sebagai yuran tertunggak dan masih diperingkat perbincangan untuk penyelesaian:

The following amount has been accounted as accrued fees

	2006 RM	2005 RM
Kumpulanwang Kursus, Seminar, Konferensi dan Lawatan Sambil Belajar Course, Seminar, Conference and Study Visit Fund	6,417,991	6,417,991

8.3. PERUNTUKAN HUTANG RAGU/PROVISION FOR DOUBTFUL DEBTS

	2006 RM	2005 RM
Tambahan dalam tahun/Addition in current year	398,627	2,535,109
Pengurangan dalam tahun/Decrease in current year	(9,488,807)	(21,810,448)
Peruntukan dalam tahun/Provision in current year	(9,090,180)	(19,275,339)
Baki awal tahun/Balance at beginning of the year	40,201,188	59,476,527
Jumlah tahun ini/Total for this year	31,111,008	40,201,188

Tambahan atau kurangan peruntukan hutang ragu dikira pada akhir tahun kewangan yang berkenaan. Peningkatan pengurusan kutipan hasil di Fakulti Bahasa Moden dan Komunikasi menyumbang kepada pemulihan hutang bagi tahun 2006.

The increase or decrease in the provision for doubtful debts is calculated at the end of the relevant financial year. An increase in debt management for Faculty of Bahasa Moden and Communication have contributed to reduce debt in 2006.

9. SIMPANAN TETAP/FIXED DEPOSITS

	2006 RM	2005 RM
Simpanan dengan institusi kewangan berlesen/Deposit with licensed financial institution:		
Bank/Bank	231,000,000	78,013,302
Syarikat Kewangan/Financial Institution	0	6,000,000
	231,000,000	84,013,302

Nota-nota kepada Penyata Kewangan *(samb.)*

Notes to the Financial Statement *(cont'd.)*

10. WANG DI TANGAN, DI BANK DAN DALAM PERJALANAN CASH IN HAND, BANK AND IN TRANSIT

	2006 RM	2005 RM
Wang di tangan Cash in hand:		
Kampus Serdang Serdang Campus	69,274	77,786
Kampus Bintulu Bintulu Campus	4,559	8,418
	73,833	86,204
Wang di bank Cash in bank:		
Kampus Serdang Serdang Campus	43,969,131	13,182,592
Kampus Bintulu Bintulu Campus	3,487,378	822,854
	47,456,509	14,005,446
Jumlah wang di tangan dan di bank Total cash in hand and bank	47,530,342	14,091,650

11. PEMIUTANG PELBAGAI SUNDRY CREDITORS

	2006 RM	2005 RM
Pemiutang Pembekal / Staf Suppliers / Staf Creditors	4,803,804	5,547,872
Akaun Penaja / Pelajar Sponsors / Students Accounts	12,816,979	20,529,097
Cagaran Pelbagai Miscellaneous Deposits	3,652,236	4,862,887
Lain-lain Others	3,884,183	7,066,030
	25,157,202	38,005,886

Angka-angka pelbagai pemiutang adalah nilai bersih setelah diselaraskan dalam proses penyatuan item-item kontra antara akaun-akaun penghutang dan pemiutang.

The figure in the sundry creditors account represent the net value less adjustment after reconciliation of the contra items between the debtors and creditors account.

Nota-nota kepada Penyata Kewangan *(samb.)*

Notes to the Financial Statement *(cont'd.)*

12. KUMPULANWANG MENGURUSOPERATING FUND

	2006 RM	2005 RM
PENDAPATANINCOME		
Geran kerajaanGovernment grants	403,610,100	394,528,570
Pelbagai yuranMiscellaneous fees	38,152,327	37,328,819
Pelbagai sewafSundry rentals	385,153	1,163,893
Jualan aset tetapSale of fixed assets	18,773	78,288
Hasil ladangPlantation revenue	209,356	237,007
Pendapatan lainOther income	9,186,031	16,926,768
	451,561,740	450,263,345
Tolak: PERBELANJAANLess: EXPENDITURE		
EmolumenEmolument	233,266,290	210,894,392
Perbelanjaan manfaat pekerjaEmployee benefit expenditure	9,072,431	530,430
Bekalan dan bahan-bahanSupplies and materials	73,041,619	68,100,036
Penyelenggaraan dan pembaikanMaintenance and repairs	21,320,572	23,309,726
Perkhidmatan iktisas dan perbelanjaan lainProfessional services and other expenditure	62,872,916	60,034,482
SusutnilaiDepreciation	44,137,483	46,989,130
Pelunasan tanahAmortisation of land	74,401	74,401
PelupusanDisposal	87,736	92,906
Hutang raguDoubtful debts	1,093	1,021,760
	443,874,541	411,047,263
LEBIHAN PENDAPATANSURPLUS INCOME	7,687,199	39,216,082
BAKI KUMPULANWANG DIBAWA KE HADAPAN FUND BALANCE BROUGHT FORWARD		
- Seperti yang dinyatakan terdahuluAs previously stated	198,738,116	158,999,400
- Pelarasan tahun laluPrior year adjustment	0	1,519,211
- Seperti yang dinyatakan semulaAs restated	198,738,116	160,518,611
Pindahan dari/(ke): Transfer from/(to):		
Kumpulanwang PembangunanDevelopment Fund	0	(275,671)
Kumpulanwang PenyelidikanResearch Fund	0	(425,906)
Kumpulanwang Tabung Pusingan dan Amanah LainRevolving and Other Trust Fund	0	(92,000)
Kumpulanwang Kursus, Seminar, Konferensi dan Lawatan Sambil Belajar Course, Seminar, Conference and Study Visit Fund	69,321	(203,000)
BAKI KUMPULANWANG DIHANTAR KE HADAPAN FUND BALANCE CARRIED FORWARD	206,494,636	198,738,116

Nota-nota kepada Penyata Kewangan *(samb.)*

Notes to the Financial Statement *(cont'd.)*

13. KUMPULANWANG KOLEJ KEDIAMANRESIDENTIAL COLLEGE FUND

	2006 RM	2005 RM
PENDAPATANINCOME		
Yuran Kolej KediamanResidential College Fees	10,208,587	9,710,182
Pelbagai sewaSundry rentals	29,810	38,650
Pendapatan lainOther income	765,401	1,052,336
	<hr/>	<hr/>
	11,003,798	10,801,168
Tolak: PERBELANJAANLess: EXPENDITURE		
Bekalan dan bahan-bahanSupplies and materials	4,751,067	4,054,160
Penyelenggaraan dan pembaikanMaintenance and repairs	1,394,618	2,331,893
Perkhidmatan iktisas dan perbelanjaan lainProfessional services and other expenditures	3,476,489	3,167,027
SusutnilaiDepreciation	463,556	433,380
PelupusanDisposal	0	6
	<hr/>	<hr/>
	10,085,730	9,986,466
LEBIHAN PENDAPATANSURPLUS INCOME	918,068	814,702
BAKI KUMPULANWANG DIBAWA KE HADAPAN		
FUND BALANCE BROUGHT FORWARD		
- Seperti yang dinyatakan terdahuluAs previously stated	10,711,080	10,001,241
- Pelarasan tahun laluPrior year adjustment	0	(104,863)
	<hr/>	<hr/>
- Seperti yang dinyatakan semulaAs restated	10,711,080	9,896,378
	<hr/>	<hr/>
Pindahan dari/(ke): Transfer from/(to):		
Kumpulanwang Kursus,Seminar,Konferensi dan Lawatan Sambil Belajar Course, Seminar, Conference and Study Visit Fund	31,923	0
Kumpulanwang PembangunanDevelopment Fund	(213,498)	0
	<hr/>	<hr/>
BAKI KUMPULANWANG DIHANTAR KE HADAPAN	11,447,573	10,711,080
FUND BALANCE CARRIED FORWARD	<hr/>	<hr/>

Nota-nota kepada Penyata Kewangan *(samb.)*

Notes to the Financial Statement *(cont'd.)*

14. KUMPULANWANG PEMBANGUNANDEVELOPMENT FUND

	2006 RM	2005 RM
PENDAPATANINCOME		
Geran kerajaan tertunda direalisasiRealisation of deferred Government grants	25,960,835	26,906,722
Pendapatan lainOther income	506,112	876,903
	<u>26,466,947</u>	<u>27,783,625</u>
Tolak: PERBELANJAANLess: EXPENDITURE		
Bekalan dan bahan-bahanSupplies and materials	2,754,588	364,673
Penyelenggaraan dan pembaikanMaintenance and repairs	247,272	457,625
Perkhidmatan iktisas dan perbelanjaan lainProfessional services and other expenditure	9,724	34,945
SusutnilaiDepreciation	27,337,060	30,541,029
PelupusanDisposals	165,640	28,891
	<u>30,514,284</u>	<u>31,427,163</u>
KURANGAN PENDAPATANINCOME DEFICIT	(4,047,337)	(3,643,538)
BAKI KUMPULANWANG DIBAWA KE HADAPAN FUND BALANCE BROUGHT FORWARD		
- Seperti yang dinyatakan terdahuluAs previously stated	188,503,058	180,268,633
- Pelarasan tahun laluPrior year adjustment	0	(5,397,708)
- Seperti yang dinyatakan semulaAs restated	<u>188,503,058</u>	<u>174,870,925</u>
Pindahan dari:Transfer from:		
Kumpulanwang MengurusOperating Fund	0	275,671
Kumpulanwang Kursus, Seminar, Konferensi dan Lawatan Sambil Belajar Course, Seminar, Conference and Study Visit Fund	0	15,000,000
Kumpulanwang PelaburanInvestment Fund	500,000	2,000,000
Kumpulanwang Kolej KediamanResidential College Fund	213,498	0
	<u>185,169,219</u>	<u>188,503,058</u>
Geran Kerajaan TertundaDeferred Government Grants		
Baki pada 1 JanuariBalance as at 1 January	277,427,581	247,170,131
Pemberian Kerajaan pada tahun semasaGovernment grants in current year	220,800,000	57,164,172
	<u>498,227,581</u>	<u>304,334,303</u>
Tolak: Pelunasan dalam tahunLess: Amortisation in year		
Susutnilai ke atas aset tetapDepreciation of fixed assets	22,949,252	26,049,479
Belanja operasi projek yang tidak dimodalkanNon-capitalised project operation expenditure	3,011,584	857,243
	<u>25,960,836</u>	<u>26,906,722</u>
Baki pada 31 DisemberBalance as at 31 December	472,266,745	277,427,581
BAKI KUMPULANWANG DIHANTAR KE HADAPAN FUND BALANCE CARRIED FORWARD	<u>657,435,964</u>	<u>465,930,639</u>

Nota-nota kepada Penyata Kewangan *(samb.)*

Notes to the Financial Statement *(cont'd.)*

15. KUMPULANWANG PENYELIDIKANRESEARCH FUND

	2006 RM	2005 RM
PENDAPATANINCOME		
Geran kerajaanGovernment grants	32,795,823	17,670,538
Pelbagai yuranMiscellaneous fees	511,072	658,035
Geran kerajaan tertunda direalisasiRealisation of deferred Government grants	245,800	245,800
SumbanganContribution	8,209,271	12,576,724
Faedah simpanan tetapFixed deposit interest	4,292	4,186
Pelbagai sewaSundry rentals	45,000	44,420
Pendapatan lainOther income	7,569,505	6,418,790
	<u>49,380,763</u>	<u>37,618,493</u>
Tolak: PERBELANJAANLess: EXPENDITURE		
Bekalan dan bahan-bahanSupplies and materials	10,898,741	12,532,228
Penyelenggaraan dan pembaikanMaintenance and repairs	778,192	972,284
Perkhidmatan iktisas dan perbelanjaan lainProfessional services and other expenditure	16,436,664	26,991,970
SusutnilaiDepreciation	9,026,224	8,276,083
PelupusanDisposals	2,734	8,911
Hutang raguDoubtful debts	80,770	8,875
	<u>37,223,325</u>	<u>48,790,351</u>
LEBIHAN/(KURANGAN) PENDAPATANINCOME DEFICIT/SURPLUS	12,157,438	(11,171,858)
BAKI KUMPULANWANG DIBAWA KE HADAPAN		
FUND BALANCE BROUGHT FORWARD		
- Seperti yang dinyatakan terdahuluAs previously stated	104,743,835	120,484,007
- Pelarasan tahun laluPrior year adjustment	0	(7,813)
- Seperti yang dinyatakan semulaAs restated	<u>104,743,835</u>	<u>120,476,194</u>
Pindahan dari/ (ke): Transfer from/(to):		
Kumpulanwang MengurusOperating Fund	0	425,906
Kumpulanwang PelaburanInvestment Fund	0	(4,891,236)
Kumpulanwang Kursus, Seminar, Konferensi dan Lawatan Sambil Belajar Course, Seminar, Conference and Study Visit Fund	(61,729)	0
Kumpulanwang Tabung Pusingan dan Amanah LainRevolving and Other Trust Fund	64,527	(95,171)
	<u>116,904,071</u>	<u>104,743,835</u>
Geran Kerajaan TertundaDeferred Government Grants		
Baki pada 1 JanuariBalance as at 1 January	983,200	0
Pindahan aset projek COMBICAT dari Universiti Malaya Transfer of COMBICAT projects from Universiti Malaya	0	1,229,000
	<u>983,200</u>	<u>1,229,000</u>
Tolak: Pelunasan dalam tahunLess: Amortisation in year		
Susutnilai ke atas aset tetapDepreciation of fixed assets	245,800	245,800
	<u>245,800</u>	<u>245,800</u>
Baki pada 31 DisemberBalance as at 31 December	737,400	983,200
BAKI KUMPULANWANG DIHANTAR KE HADAPAN	117,641,471	105,727,035
FUND BALANCE CARRIED FORWARD	117,641,471	105,727,035

Nota-nota kepada Penyata Kewangan *(samb.)*

Notes to the Financial Statement *(cont'd.)*

16. KUMPULANWANG TABUNG PUSINGAN DAN AMANAH LAIN REVOLVING AND OTHER TRUST FUND

	2006 RM	2005 RM
PENDAPATAN INCOME		
Geran kerajaan Government grants	4,542,125	4,799,120
Pelbagai yuran Other fees	14,254,006	16,746,520
Sumbangan Contributions	976,890	1,008,313
Faedah simpanan tetap Fixed deposit interest	1,876,210	1,155,983
Untung atas jualan saham Profit on sale of shares	554,480	76,634
Pengurangan peruntukan rosot nilai saham Decrease in provision for diminution of shares	113,314	0
Pelbagai sewa Sundry rentals	31,985	56,784
Pendapatan lain Other income	29,149,079	10,071,943
	<u>51,498,089</u>	<u>33,915,297</u>
Tolak: PERBELANJAAN Less: EXPENDITURE		
Bekalan dan bahan-bahan Supplies and materials	7,131,378	4,501,499
Penyelenggaraan dan pembaikan Maintenance and repairs	1,613,262	757,405
Perkhidmatan iktisas dan perbelanjaan lain Professional services and other expenditure	19,026,912	22,679,676
Susut nilai Depreciation	3,236,603	2,882,893
Pelupusan Disposal	2	882,262
Hutang ragu Doubtful debts	266,711	1,380,860
	<u>31,274,868</u>	<u>33,084,595</u>
LEBIH PENDAPATAN SURPLUS INCOME	20,223,221	830,702
BAKI KUMPULANWANG DIBAWA KE HADAPAN FUND BALANCE BROUGHT FORWARD		
- Seperti yang dinyatakan terdahulu As previously stated	116,570,595	115,550,271
- Pelarasan tahun lalu Prior year adjustment	0	(3,185)
- Seperti yang dinyatakan semula As restated	<u>116,570,595</u>	<u>115,547,086</u>
Pindahan dari / (ke) : Transfer from / (to):		
Kumpulanwang Mengurus Operating Fund	0	92,000
Kumpulanwang Penyelidikan Research Fund	(64,527)	95,171
Kumpulanwang Penginapan & Rekreasi Accommodation & Recreation Fund	0	(2,361)
Kumpulanwang Kursus, Seminar, Konferensi dan Lawatan Sambil Belajar Course, Seminar, Conference and Study Visit Fund	(86,669)	7,997
BAKI KUMPULANWANG DIHANTAR KE HADAPAN FUND BALANCE CARRIED FORWARD	<u>136,642,620</u>	<u>116,570,595</u>

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

17. KUMPULANWANG PENGINAPAN DAN REKREASIAACCOMODATION AND RECREATION FUND

	2006 RM	2005 RM
PENDAPATANINCOME		
SumbanganContributions	4,697	10,183
Pelbagai sewaSundry rentals	820,954	613,203
Pendapatan lainOther income	1,065,517	846,957
	<u>1,891,168</u>	<u>1,470,343</u>
Tolak: PERBELANJAANLess: EXPENDITURE		
Bekalan dan bahan-bahanSupplies and materials	397,455	227,013
Penyelenggaraan dan pembaikanMaintenance and repairs	582,867	221,291
Perkhidmatan iktisas dan hospitalitiProfessional services and hospitality	256,865	214,329
SusutnilaiDepreciation	313,037	289,006
PelupusanDisposal	4	0
	<u>1,550,228</u>	<u>951,639</u>
LEBIHAN PENDAPATANSURPLUS INCOME	340,940	518,704
BAKI KUMPULANWANG DIBAWA KE HADAPAN		
FUND BALANCE BROUGHT FORWARD		
- Seperti yang dinyatakan terdahuluAs previously stated	5,953,516	5,432,597
- Pelarasan tahun laluPrior year adjustment	0	(146)
- Seperti yang dinyatakan semulaAs restated	<u>5,953,516</u>	<u>5,432,451</u>
Pindahan dari: Transfer from:		
Kumpulanwang Tabung Pusingan dan Amanah LainRevolving and Other Trust Fund	0	2,361
Kumpulanwang Kursus, Seminar, Konferensi dan Lawatan Sambil Belajar Course, Seminar, Conference and Study Visit Fund	6,482	
BAKI KUMPULANWANG DIHANTAR KE HADAPAN		
FUND BALANCE CARRIED FORWARD	<u>6,300,938</u>	<u>5,953,516</u>

Nota-nota kepada Penyata Kewangan *(samb.)*

Notes to the Financial Statement *(cont'd.)*

18. KUMPULANWANG PELABURANINVESTMENT FUND

	2006 RM	2005 RM
PENDAPATANINCOME		
Faedah dan dividenInterest and dividend	3,596,391	2,546,979
Untung/(rugi) atas jualan sahamProfit/(loss) on sale of shares	(271,077)	(1,049,342)
Pengurangan peruntukan rosotnilai sahamDecrease in provision for diminution of shares	719,952	196,070
Pendapatan lainOther income	0	127,350
	<u>4,045,266</u>	<u>1,821,057</u>
Tolak: PERBELANJAANLess: EXPENDITURE		
Perkhidmatan iktisas dan perbelanjaan lainProfessional services and other expenditure	87,115	40,908
	<u>87,115</u>	<u>40,908</u>
LEBIHAN PENDAPATANSURPLUS INCOME	3,958,151	1,780,149
BAKI KUMPULANWANG DIBAWA KE HADAPAN		
FUND BALANCE BROUGHT FORWARD		
- Seperti yang dinyatakan terdahuluAs previously stated	60,455,708	55,784,323
- Pelarasan tahun laluPrior year adjustment	0	0
- Seperti yang dinyatakan semulaAs restated	<u>60,455,708</u>	<u>55,784,323</u>
Pindahan dari/(ke): Transfer from/(to):		
Kumpulanwang PenyelidikanResearch Fund	0	4,891,236
Kumpulanwang PembangunanDevelopment Fund	(500,000)	(2,000,000)
BAKI KUMPULANWANG DIHANTAR KE HADAPAN	<u>63,913,859</u>	<u>60,455,708</u>
FUND BALANCE CARRIED FORWARD		

Nota-nota kepada Penyata Kewangan *(samb.)*

Notes to the Financial Statement *(cont'd.)*

19. KUMPULANWANG KURSUS, SEMINAR, KONFERENSI DAN LAWATAN SAMBIL BELAJAR COURSE, SEMINAR, CONFERENCE AND STUDY VISIT FUND

	2006 RM	2005 RM
PENDAPATAN INCOME		
Geran Kerajaan Government grants	160,890	0
Pelbagai yuran Sundry fees	19,830,871	16,056,143
Sumbangan Luar Contributions	852,162	474,632
Faedah simpanan tetap Fixed deposit interest	1,273,574	687,304
Pelbagai sewa Sundry rentals	19,725	132,625
Pendapatan lain Other income	4,884,563	10,065,063
	<u>27,021,785</u>	<u>27,415,767</u>
Tolak : PERBELANJAAN Less: EXPENDITURE		
Bekalan dan bahan-bahan Supplies and materials	5,399,523	6,352,110
Penyelenggaraan dan pembaikan Maintenance and repairs	1,191,130	1,967,065
Perkhidmatan iktisas dan hospitaliti Professional services and hospitality	16,498,661	15,014,830
Susut nilai Depreciation	1,464,225	1,597,605
Pelupusan Disposal	18	17,363
Hutang ragu Doubtful debts	51,146	123,614
	<u>24,604,703</u>	<u>25,072,587</u>
	2,417,082	2,343,180
LEBIH PENDAPATAN SURPLUS INCOME		
BAKI KUMPULANWANG DIBAWA KE HADAPAN		
FUND BALANCE BROUGHT FORWARD		
- Seperti yang dinyatakan terdahulu As previously stated	74,928,241	87,390,383
- Pelarasan tahun lalu Prior year adjustment	0	(325)
- Seperti yang dinyatakan semula As restated	<u>74,928,241</u>	<u>87,390,058</u>
Pindahan dari/(ke): Transfer from/(to):		
Kumpulanwang Penyelidikan Research Fund	61,729	0
Kumpulanwang Mengurus Operating Fund	(69,321)	203,000
Kumpulanwang Kolej Kediaman Residential College Fund	(31,923)	0
Kumpulanwang Penginapan dan Rekreasi Accomodation & Recreation Fund	(6,482)	0
Kumpulanwang Pembangunan Development Fund	0	(15,000,000)
Kumpulanwang Tabung Pusingan dan Amanah Lain Revolving and Other Trust Fund	86,669	(7,997)
	<u>77,385,995</u>	<u>74,928,241</u>
BAKI KUMPULANWANG DIHANTAR KE HADAPAN		
FUND BALANCE CARRIED FORWARD		
	<u>77,385,995</u>	<u>74,928,241</u>

Nota-nota kepada Penyata Kewangan *(samb.)*

Notes to the Financial Statement *(cont'd.)*

20. KUMPULANWANG PINJAMAN KENDERAAN DAN KOMPUTERVEHICLE AND COMPUTER LOAD FUND

	2006 RM	2005 RM
Kumpulanwang Pinjaman KenderaanVehicle Loan Fund		
Baki pinjaman yang telah diluluskanBalance of approved funds	9,298,360	10,097,910
Baki yang belum dipinjamkanBalance of funds which have not been borrowed	12,701,640	10,902,090
Pindahan ke Kumpulanwang Pinjaman Skim Latihan Akademik Transfer to Academic Training Scheme Loan Fund	0	1,000,000
Baki kumpulanwang dibawa dan dihantar ke hadapan Fund balance brought and carried forward	22,000,000	22,000,000
Kumpulanwang Pinjaman KomputerComputer Loan Fund		
Baki pinjaman yang telah diluluskanBalance of approved funds	1,205,445	1,091,519
Baki yang belum dipinjamkanBalance of funds which have not been borrowed	794,555	908,481
Baki Kumpulanwang dibawa dan dihantar ke hadapan Fund balance brought and carried forward	2,000,000	2,000,000
Kumpulanwang Pinjaman Skim Latihan AkademikAcademic Training Scheme Loan Fund		
Baki pinjaman yang telah diluluskanBalance of approved funds	12,750	27,600
Baki yang belum dipinjamkanBalance of funds which have not been borrowed	987,250	972,400
Baki Kumpulanwang dibawa dan dihantar ke hadapan Fund balance brought and carried forward	1,000,000	1,000,000
JUMLAH BAKI KUMPULANWANG PINJAMAN KENDERAAN DAN KOMPUTER DIHANTAR KE HADAPAN	25,000,000	25,000,000
TOTAL VEHICLE AND COMPUTER LOAD FUND CARRIED FORWARD		

Jumlah faedah yang diperolehi 31 Disember 2006 sebanyak RM415,664 (2005: RM463,074) telah dipindahkan ke Kumpulanwang Pelaburan pada 31 Disember 2006.

Interest obtained in 31 December 2006 totalling RM415,664 (2005:RM463,074) has been transferred to Investment Fund on 31 December 2006.

21. GERAN KERAJAAN TERTUNDA DIREALISASIREALISATION OF DEFERRED GOVERNMENT GRANTS

	2006 RM	2005 RM
Kumpulanwang PembangunanDevelopment Fund		
Susutnilai ke atas aset tetapDepreciation of fixed assets	22,949,252	26,049,479
Belanja operasi projek yang tidak dimodalkanNon-capital project operation expenditure	3,011,583	857,243
	25,960,835	26,906,722
Kumpulanwang PenyelidikanResearch Fund		
Susutnilai ke atas aset tetapDepreciation of fixed assets	245,800	245,800
	245,800	245,800
JUMLAHTOTAL	26,206,635	27,152,522

Nota-nota kepada Penyata Kewangan *(samb.)*

Notes to the Financial Statement *(cont'd.)*

22. GERAN KERAJAAN GOVERNMENT GRANT

Geran kerajaan adalah untuk membiayai perbelanjaan seperti berikut :
Government grants are for financing expenditures which are as follows:

	2006 RM	2005 RM
(a) Mengurus Operating	403,610,100	394,528,570
(b) Penyelidikan Research	32,795,823	17,670,538
(c) Skim Latihan Pembangunan Sumber Manusia Human Development Training Scheme	3,434,672	2,343,234
(d) Skim Latihan Akademik dan Biasiswa (SLAB) Academic Training and Scholarship Scheme (SLAB)	464,989	1,206,864
(e) Pembangunan Sukan IPT IPT Sport Development	642,464	0
(f) Skim Sangkutan Pembantu Pengajar Assistant Tutor Support Scheme	0	39,091
(g) Skim Pasca Siswazah Post-graduate Scheme	0	719,931
(h) Pemfailan Paten Penyelidikan Research Patent Scheme	0	490,000
(i) Skim Jemputan Pakar Latihan dalam Penyelidikan dan Pembangunan (Skim fellowship) Invitation of Training Expert in Research and Development Scheme (Fellowship Scheme)	160,890	0
	441,108,938	416,998,228

23. PELBAGAI YURAN MISCELLANEOUS FEES

	2006 RM	2005 RM
(a) Yuran Pengajian Tuition fees	38,152,327	37,328,819
(b) Yuran Kolej Kediaman Residential college fees	10,208,587	9,710,182
(c) Yuran Kursus dan Seminar/Pendidikan Jarak Jauh dan Program Eksekutif Course and Seminar/Distance Learning and Executive programme fees	19,830,871	16,056,143
(d) Yuran Lain Other fees	14,765,078	17,404,555
	82,956,863	80,499,699

Nota-nota kepada Penyata Kewangan *(samb.)*

Notes to the Financial Statement *(cont'd.)*

24. PENDAPATAN LAIN OTHER INCOME

	2006 RM	2005 RM
Pendapatan mengikut klasifikasi kumpulan wang: Income according to classification of funds:		
(a) Mengurus Operating	9,186,031	16,926,768
(b) Kolej Kediaman Residential College	765,401	1,052,336
(c) Pembangunan Development	506,112	876,903
(d) Penyelidikan Research	7,569,505	6,418,790
(e) Tabung Pusingan dan Amanah Lain Revolving and Other Trust Fund	29,149,079	10,071,943
(f) Penginapan dan Rekreasi Accommodation and Recreation	1,065,517	846,957
(g) Pelaburan Investment	0	127,350
(h) Kursus, Seminar, Konferensi dan Lawatan Sambil Belajar Course, Seminar, Conference and Study Visit	4,884,563	10,065,063
	53,126,208	46,386,110

25. PELARASAN TAHUN LALU PRIOR YEAR ADJUSTMENT

	2006 RM	2005 RM
(a) Melaraskan peruntukan susut nilai yang terlebih diambil kira pada tahun sebelum 2004 oleh kerana pertukaran sistem pengurusan aset Adjustment to provision for depreciation which had been overstated accounted for the year before 2004 as a result of changes in the asset management system	0	(3,880,849)
(b) Selaras cagaran sewa rumah pangsa UPMT Adjustment for rental deposit for UPMT flat	0	(104,580)
(c) Selaras pelbagai cagaran Putra Infoport Adjustment for Putra Infoport miscellaneous deposit	0	(70,800)
(d) Selaras akaun salah caj tahun sebelum (UPM Bintulu) Adjustment for previous year wrongly charge of account (UPM Bintulu)	0	61,400
	0	(3,994,829)

Nota-nota kepada Penyata Kewangan *(samb.)*

Notes to the Financial Statement *(cont'd.)*

26. PENGLIBATAN MODAL DAN BUKAN MODAL / CAPITAL AND NON-CAPITAL INVOLVEMENT

	2006 RM	2005 RM
Perbelanjaan modal dan bukan modal yang diluluskan dan dikontrakkan	55,675,163	92,862,640
Approved capital and non-capital expenditure and has been contracted		

27. LIABILITI KONTINGENS / CONTINGENT LIABILITIES

	2006 RM	2005 RM
(a) Bayaran terakhir Projek Pembinaan Lubang Kedua Padang Golf UPM dan tuntutan ini telah selesai dalam tahun 2006 Final payment for Pembinaan Lubang Kedua Padang Golf UPM pending until received High Court decision	0	901,710
(b) Tuntutan saman hakcipta perisian komputer Legal action for computer software copyright	250,000	250,000
(c) Tuntutan saman pemberhentian kerja staf UPM Legal action for UPM Staff's termination of employment	200,000	200,000
(d) Tuntutan saman diantara staf UPM yang melibatkan tuntutan gantirugi Legal action by staff against other UPM staff wherein UPM under took to act and defend on behalf on the defendens.	5,000,000	5,000,000
(e) Tuntutan saman pelajar yang gagal dan diberhentikan Legal action against UPM by failed and sacked student seeking to recontinued studies	250,000	250,000
	5,700,000	6,601,710

28. ANGKA-ANGKA PERBANDINGAN / COMPARATIVE FIGURES

Sebahagian dari angka-angka bandingan tahun lalu telah dipinda untuk disesuaikan dengan persembahan tahun ini.
A part of last year's comparative figures have been adjusted to be tandem with this year's presentation.



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UNIVERSITI PUTRA MALAYSIA
BERILMU BERAKTI

Sidang Pengarang Laporan Tahunan UPM 2006

UPM 2006 Annual Report Editorial



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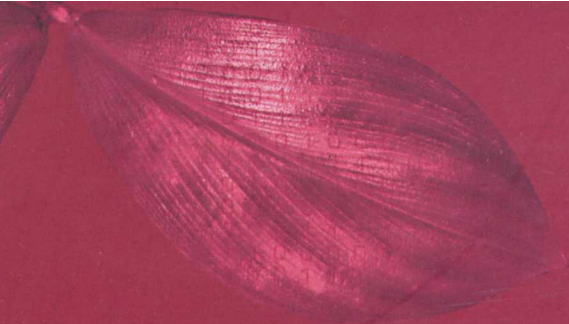
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