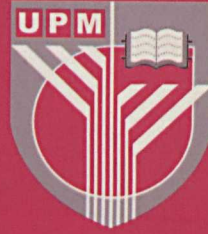
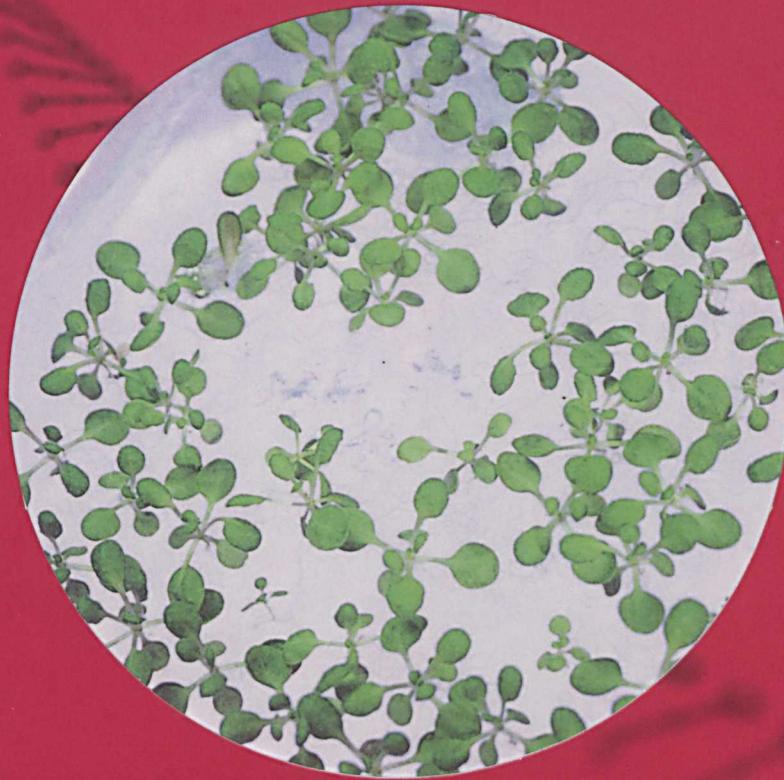


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UPM
UNIVERSITI PUTRA MALAYSIA
BERILMU BERBAKTI
www.upm.edu.my



Laporan Tahunan **2005** Annual Report

Matlamat

UPM telah menetapkan lapan matlamat untuk merealisasikan wawasannya. Setiap matlamat berikut mempunyai objektif khusus, iaitu dalam bentuk yang boleh diukur pencapaiannya. Pencapaian setiap objektif bergantung kepada pelaksanaan strategi dan pelan tindakan masing-masing. Kelapan lapan matlamat tersebut adalah seperti 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 profesional yang cemerlang;*
- *Membudayakan teknologi maklumat dan komunikasi (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.

Goals

UPM has established eight goals to realise its vision. Each goal has its own specific objectives, set forward in a way whereby its achievements can be measured. The achievement of each objective depends on the execution of the respective master plans. The eight goals are as follows:

- *To produce quality graduates who are competitive and resilient through lifelong learning;*
- *To transform UPM into a renowned research university;*
- *To enhance UPM's capability as a centre for learning and teaching in agricultural knowledge and technology.*
- *To enhance a quality management system that is effective, efficient, transparent and client-friendly;*
- *To create and develop an excellent human resources and professional environment;*
- *To promote an Information and Communication Technology (ICT) culture through e-University;*
- *To generate and manage University financial resources effectively, and*
- *To establish UPM as a centre for professional development services and continuing education.*

QUALITY POLICY

We, the staff of Universiti Putra Malaysia, are committed towards excellence through the inculcation of quality culture in teaching, research and professional service to fulfil the expectations of our clients.

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 dalam melaksanakan tugas yang diberi serta dapat meningkatkan kualiti perkhidmatan
- Meningkatkan disiplin diri bagi menghasilkan perkhidmatan cemerlang dengan 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 yang dikatakan
- Beradab
- Kekitaan, kesetiaan, syura dan muafakat

NILAI MURNI

Terdapat dua belas 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

Work ethics are principles and behavioural standards based on good universal values adhered to by every staff member of Universiti Putra Malaysia.

OBJECTIVES

- *To assert positive attitudes in discharging given tasks and duties that will improve the quality of service.*
- *To improve the level of self-discipline towards producing excellent services that meet the needs of the clients as well as the organisation.*
- *To provide a lifelong and positive contribution to the nation.*

PRINCIPLE

Universiti Putra Malaysia's work ethics should be implemented and practised from the following platform:

- *Having the right intention*
- *Showing excellent conduct*
- *Promoting goodness in society*
- *Executing all duties as promised*
- *Exhibiting good manners*
- *Upholding the spirit of loyalty, togetherness, consensus and unity*

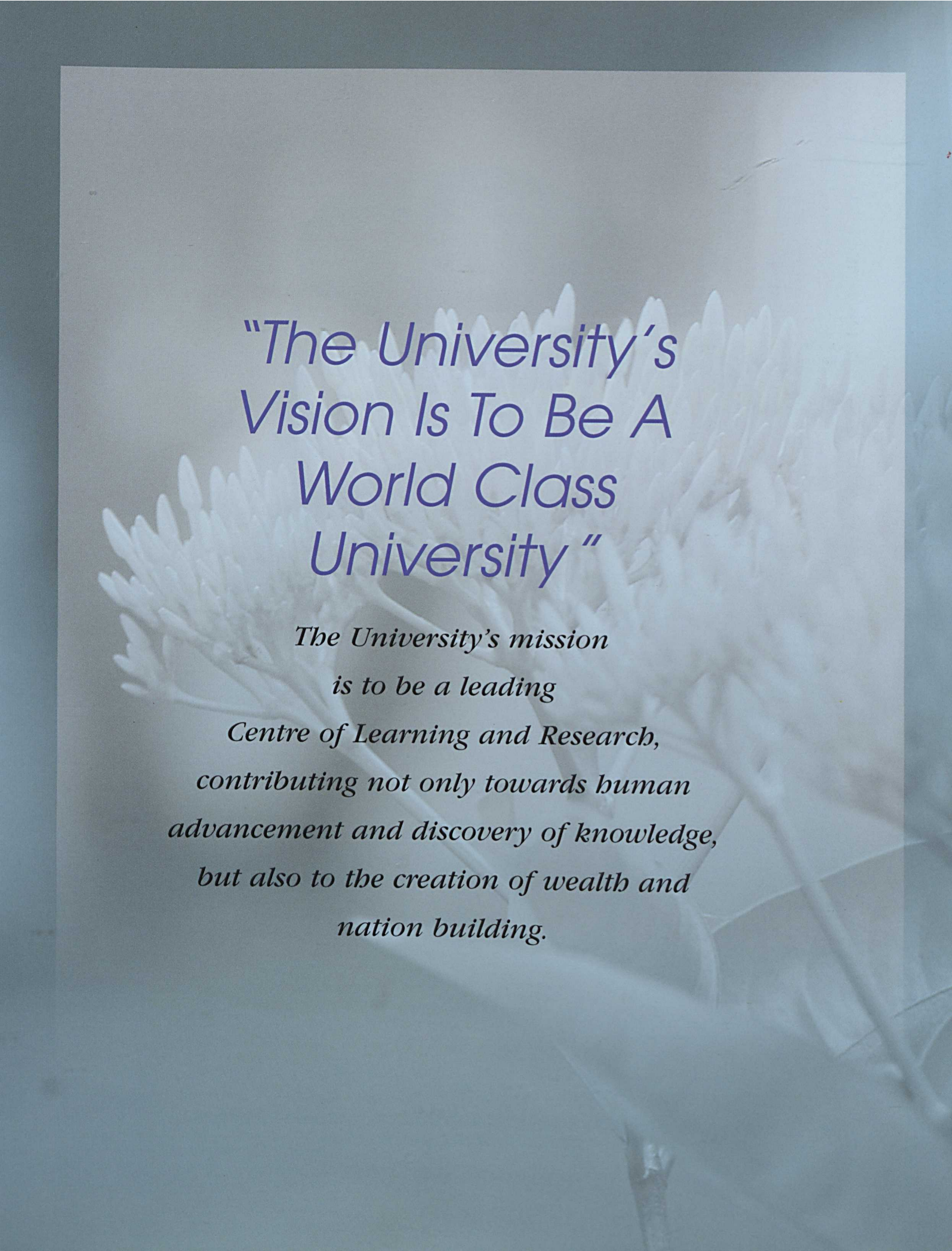
VALUE

There are twelve core values that are the underlying cornerstone of UPM's Work Ethics and they are as follows:

- *Trustworthiness*
- *Justice*
- *Truthfulness and transparency*
- *Wisdom*
- *Gratefulness and patience*
- *Efficiency, promptness and accuracy*
- *Sincerity*
- *Compassion*
- *Discipline*
- *Honesty*
- *Responsibility*
- *Dedication*

“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.*

Canselor

Chancellor



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

Canselor / Chancellor

Pro-Canselor

Pro-Chancellors



Y.Bhg. Tan Sri Dato' Dr. Nayan Ariffin
Pro-Canselor / Pro-Chancellor



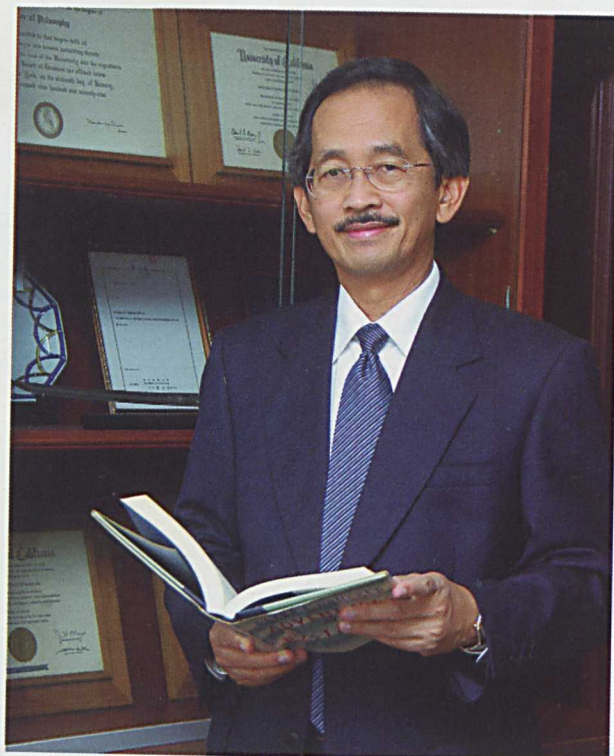
Y.Bhg. Tan Sri Dato' Thong Yaw Hong
Pro-Canselor / Pro-Chancellor

Ahli Lembaga Pengarah

Board of Directors



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



Y. Bhg. Profesor Dato' Dr. Ir. Mohd Zohadie Bardaie



Y. Bhg. Dato' Dr. Mohd Yahya Nordin



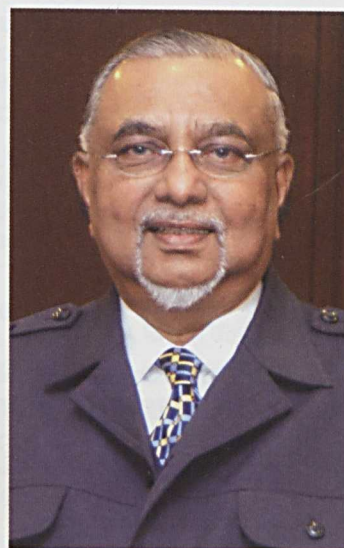
Y. Bhg. Datuk Dr. Abdul Aziz Sheikh Abdul Kadir



Y. Bhg Tan Sri, Dato' Lee Shen Cheng



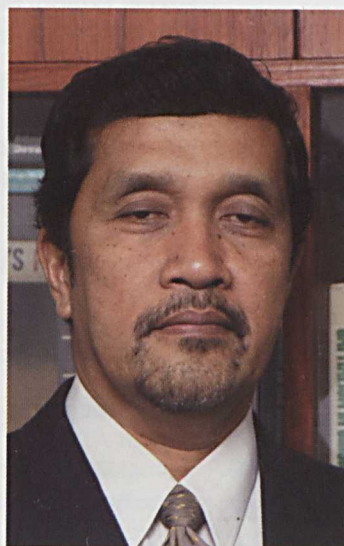
Y. Bhg. Datuk Sulaiman Daud



Y. Bhg. Datuk Haji Isahak Mohd Yusuf



Encik Md. Saad Hashim



Tuan Haji Kamalul Aripin Musa



Tuan Haji Mohamad Ghazali Hj. Ali

AHLI LEMBAGA PENGARAH / *Board of Directors*

PENGERUSI / *Chairman*

Y. Bhg. Datuk Ramly Ahmad

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

AHLI / *Members*

Y. Bhg. Prof. Dato' Dr. Ir. Mohd.
Zohadie Bardaie

Naib Canselor / *Vice Chancellor*

Y. Bhg. Dato' Dr. Mohd. Yahya Nordin

Y. Bhg. Datuk Dr. Abdul Aziz
Sheikh Abdul Kadir

Y. Bhg. Tan Sri Dato' Lee Shen Cheng

Y. Bhg. Datuk Sulaiman Daud

Y. Bhg. Datuk Haji Isahak Mohd. Yusuf

Encik Md. Saad Hashim

SETIAUSAHA / *Secretary*

Tuan Haji Kamalul Aripin Musa
(hingga / *Until* 4 / 5 / 2005)

Tuan Haji Mohamad Ghazali Hj. Ali
Pemangku Pendaftar / *Acting Registrar*
(mulai / *From* 5/5/2005)

Senat

Senate

SENAT / Senate

Y. Bhg. Prof. Dato' Dr. Ir. Mohd Zohadie Bardaie
Naib Canselor / Vice Chancellor

AHLI / Members

Prof. Dr. Muhamad Awang

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Timbalan Naib Canselor (Akademik) /
Deputy Vice Chancellor (Academic)

Prof. Dr. Nik Mustapha R. Abdullah
Timbalan Naib Canselor (Pembangunan) /
Deputy Vice Chancellor (Development)

Prof. Madya Dr. Azali Mohamed
Timbalan Naib Canselor (Hal Ehwal Pelajar) /
Deputy Vice Chancellor (Student Affairs)

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Dekan / Dean
Fakulti Perhutanan / Faculty of Forestry

Prof. Dr. Mohd Zamri Saad
Dekan / Dean
Fakulti Perubatan Veterinar /
Faculty of Veterinary Medicine

Prof. Madya Hj. Zainal Abidin Kidam
Dekan / Dean
Fakulti Ekonomi Dan Pengurusan /
Faculty of Economics and Management

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Dekan / Dean
Fakulti Kejuruteraan / Faculty of Engineering

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Dekan / Dean
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Faculty of Educational Studies

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Dekan / Dean
Fakulti Sains / Faculty of Science

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Dekan / Dean
Fakulti Sains & Teknologi Makanan /
Faculty of Food Science and Technology

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Dekan / Dean
Fakulti Ekologi Manusia /
Faculty of Human Ecology

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Dekan / Dean
Fakulti Bahasa Moden dan Komunikasi /
Faculty of Modern Languages and
Communication

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Fakulti Perubatan dan Sains Kesihatan /
Faculty of Medicine and Health Science

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Dekan / Dean
Fakulti Rekabentuk dan Senibina /
Faculty of Design and Architecture

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Dekan / Dean
Fakulti Sains Komputer dan Teknologi Maklumat /
Faculty of Computer Science and Information
Technology

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Dekan / Dean
Fakulti Bioteknologi dan Sains Biomolekul /
Faculty of Biotechnology and Biomolecular
Sciences

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Dekan / Dean
Fakulti Pengajian Alam Sekitar /
Faculty of Environmental Studies

Prof. Dr. Mohd Azmi Mohd Lila
Pengarah / Director
Institut Biosains / Institute of Bioscience

Prof. Dr. Wan Ishak Wan Ismail
Pengarah / Director
Institut Teknologi Maju /
Institute of Advanced Technology

Prof. Dr. Borhanuddin Mohd Ali
Pengarah / Director
Institut Multimedia dan Perisian / Institute of
Multimedia and Software

Prof. Dr. Rahim bin Md. Sail
Pengarah / Director
Institut Pengajian Komuniti dan Keamanan
(PEKKA) / Institute for Community and Peace
Studies

Prof. Madya Dr. Tengku Aizan Tengku Abdul
Hamid
Pengarah / Director
Institut Gerontologi / Institute of Gerontology

Y. Bhg. Prof. Dato' Dr. Kamel Arifin Mohd Atan
Pengarah / Director
Institut Penyelidikan Matematik
(INSPEM) / Institute for Mathematical
Research (INSPEM)

Prof. Dr. Mohd. Shahwahid Hj. Othman
Pengarah / Director
Akademi Hutan Hujan / Rainforest Academy

Prof. Dr. Shamsheer Ramadili Mohamad
Pengarah / Director
Akademi Sukan / Sports Academy

Prof. Dr. Aini Ideris
Dekan / Dean
Sekolah Pengajian Siswazah /
School of Graduate Studies

Prof. Madya Dr. Arfah Salleh
Dekan / Dean
Sekolah Pengajian Siswazah Pengurusan /
Graduate School of Management

Y. Bhg. Prof. Dato' Dr. Nik Muhamad
Abd. Majid
Dekan / Dean
Fakulti Sains Pertanian Dan Makanan
(Kampus Bintulu) /
Faculty of Agriculture and Food Science
(Bintulu Campus)

Prof. Dr. Abdul Aziz Saharee
Pengarah / Director
Pusat Pendidikan Luar /
Centre for External Programme

Prof. Dr. Makhdzir Mardan
Pengarah / Director
Institut Kajian Perladangan /
Institute of Plantation Studies

Prof. Madya Dr. Jalal
Pengarah / Director
Institut Biokomposit Tropika /
Institute of Tropical Biocomposite

Prof. Dr. Yaakob Che Man
Pengarah / Director
Institut Makanan Halal /
Institute of Halal Food

Prof. Dr. Hj. Azimi Hj. Hamzah
Pengarah / Director
Institut Pengembangan Pertanian /
Institute for Agricultural Extension

Prof. Dr. Rosli Mohamad
Pengarah / Director
Pusat Asasi Sains Pertanian /
Centre of Foundation Studies for Agricultural
Science

Prof. Ir. Dr. Desa Ahmad
Pengarah / Director
Pusat Mekanisasi dan Pengautomatan Pertanian
dan Makanan / Centre for Food and
Agricultural Mechanisation and Automation

Prof. Dr. Fatimah Arshad
Pengarah / Director
Institut Kajian Dasar Pertanian & Makanan /
Institute of Agricultural & Food Policy Studies

Prof. Dr. Kaida Khalid

Prof. Dr. Mahiran Basri

Prof. Dr. Mohd. Ali Hassan

Prof. Dato' Dr. Mohamed Shariff Mohamed Din

Prof. Dr. Shaik Mohd. Noor Alam S.M. Hussain

Prof. Ir. Dr. Shahnor Basri

Prof. Dr. Sariah Meon

Prof. Dr. Salmah Yusof
Pengarah / Director
Pusat Kajian Strategik & Inovasi Makanan /
Center for Strategic Research & Food Innovation

Prof. Dr. Wan Omar Abdullah

Prof. Dr. Zakariah Abd. Rashid

Prof. Dr. Jamilah Bakar

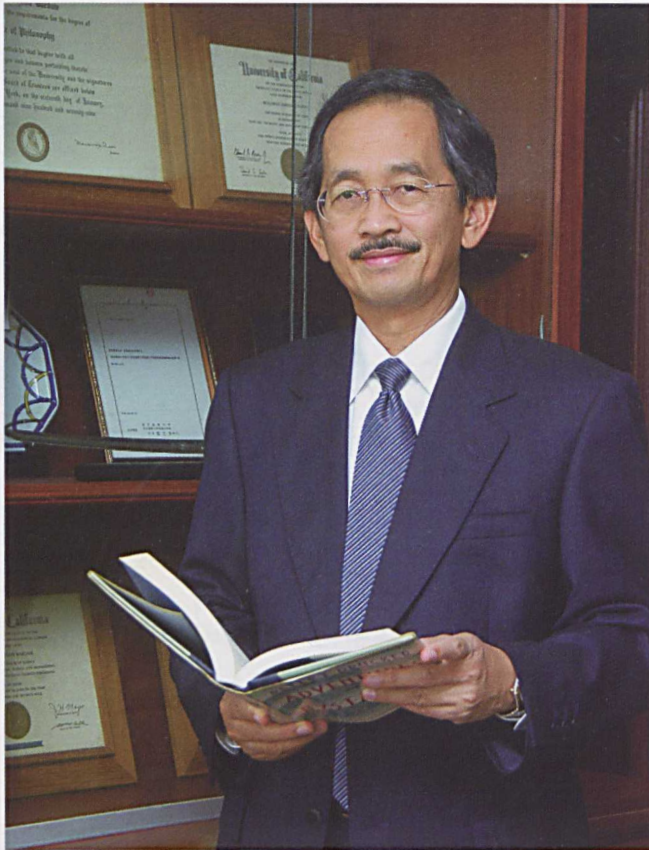
Prof. Dr. Ghizan Saleh

Prof. Dr. Ahmad Said Sajap

Cik Badilah Saad
Pemangku, Ketua Pustakawan /
Acting, Chief Librarian

SETIAUSAHA / Secretary

Puan Chek Zan bt Kasah
Ketua Bahagian Akademik /
Head of Academic Section



Prof. Dato' Dr. Ir. Mohd Zohadie Bardaie
Naib Canselor / Vice Chancellor

Kumpulan Pengurusan Management Team



Prof. Dr. Muhamad Awang
Timbalan Naib Canselor (Akademik) /
Deputy Vice Chancellor (Academic Affairs)



Prof. Dr. Nik Mustapha Raja Abdullah
Timbalan Naib Canselor (Pembangunan) /
Deputy Vice Chancellor (Development)



Prof. Madya Dr. Azali Mohamed
Timbalan Naib Canselor (Hal Ehwal Pelajar) /
Deputy Vice Chancellor (Student Affairs)



En. Zulkiflee Othman



Tuan Haji Kamalul Aripin
Musa



Cik Badillah Saad



Tuan Haji Mohamed Ghazali
Haji Ali
(Mulai / From 5/5/2005)

NAIB CANCELOR / Vice Chancellor

Prof. Dato' Dr. Ir. Mohd Zohadie Bardaie

Dip. Agric. (Malaya), B.S., M.S.
(California, Davis), Ph.D. (Cornell), M.I.E.M., P.Eng.

**TIMBALAN NAIB CANCELOR (AKADEMIK) /
Deputy Vice Chancellor (Academic Affairs)**

Prof. Dr. Muhamad Awang

Drs.(ITB), Ph.D. (Sheffield)

**TIMBALAN NAIB CANCELOR (PEMBANGUNAN) /
Deputy Vice Chancellor (Development)**

Prof. Dr. Nik Mustapha Raja Abdullah

Dip. Agric. (UPM), B.S., M.S. (Louisiana State), Ph.D. (Guelph)

**TIMBALAN NAIB CANCELOR (HAL EHWAL PELAJAR) /
Deputy Vice Chancellor (Student Affairs)**

Prof. Madya Dr. Azali Mohamed

Dip. Agric., B.Sc. (UPM), M.Sc., Ph.D. (Cardiff)
(13/7/2000 - 4/5/2005)

PENDAFTAR / Registrar

Tuan Haji Kamalul Aripin Musa

B.A.(Hons) (Malaya)
(Sehingga / Until 4/5/2005)

PEMANGKU PENDAFTAR / Acting Registrar

Tuan Haji Mohamad Ghazali Haji Ali

(Mulai / From 5/5/2005)

PEMANGKU BENDAHARI / Acting Bursar

Encik Zulkiflee Othman

PEMANGKU KETUA PUSTAKAWAN /

Acting Chief Librarian

Cik Badilah Saad

Struktur Organisasi

Organisational Structure

LEMBAGA PENGARAH / Board of Directors

TIMBALAN NAIB CANSOLOR
(Akademik & Pengantarabangsaan) /
Deputy Vice Chancellor
(Academic & International Affairs)

TIMBALAN NAIB CANSOLOR
(Hal Ehwal Pelajar & Alumni) /
Deputy Vice Chancellor
(Student Affairs & Alumni)

TIMBALAN NAIB CANSOLOR
(Penyelidikan & Inovasi) /
Deputy Vice Chancellor
(Research & Innovation)

FAKULTI / INSTITUT / AKADEMI / SEKOLAH / PUSAT / FACULTY / INSTITUTE / ACADEMY / SCHOOL / CENTRE

Fakulti Pertanian / *Faculty of Agriculture*

Fakulti Perhutanan / *Faculty of Forestry*

Fakulti Perubatan Veterinar / *Faculty of Veterinary Medicine*

Fakulti Ekonomi & Pengurusan / *Faculty of Economics & Management*

Fakulti Kejuruteraan / *Faculty of Engineering*

Fakulti Pengajian Pendidikan / *Faculty of Educational Studies*

Fakulti Sains / *Faculty of Science*

Fakulti Sains & Teknologi Makanan / *Faculty of Food Science & Technology*

Fakulti Ekologi Manusia / *Faculty of Human Ecology*

Fakulti Bahasa Moden & Komunikasi / *Faculty of Modern Language & Communication*

Fakulti Rekabentuk & Senibina / *Faculty of Design & Architecture*

Fakulti Perubatan & Sains Kesihatan / *Faculty of Medicine & Health Sciences*

Fakulti Sains Komputer & Teknologi Maklumat / *Faculty of Computer Science & Information Technology*

Fakulti Bioteknologi & Sains Biomolekul / *Faculty of Biotechnology & Biomolecular Sciences*

Fakulti Pengajian Alam Sekitar / *Faculty of Environmental Studies*

Fakulti Sains Pertanian & Makanan (Kampus Bintulu) / *Faculty of Agriculture and Food Science (Bintulu Campus)*

Institut Biosains / *Institute of Bioscience*

Institut Teknologi Maju / *Institute of Advanced Technology*

Institut Gerontologi / *Institute of Gerontology*

Institut Penyelidikan Matematik / *Institute for Mathematical Research*

Institut Multimedia dan Perisian / *Institute of Multimedia and Software*

Institut Pengajian Komuniti dan Keamanan / *Institute for Community and Peace Studies*

SENAT / *Senate*

NAIB CANSOLOR / *Vice Chancellor*

PENDAFTAR /
Registrar

BENDAHARI /
Bursar

KETUA PUSTAKAWAN /
Chief Librarian

Institut Interim Farmaseutikal & Nutraseutikal Bioteknologi / *Interim Institute of Pharmaceutical and Nutraceutical Biotechnology*

Institut Makanan Halal / *Institute of Halal Food*

Institut Kajian Dasar Pertanian & Makanan / *Institute of Agricultural and Food Policy Studies*

Institut Biokomposit Tropika / *Institute of Tropical Biocomposite*

Institut Pengembangan Pertanian / *Institute for Agricultural Extension*

Institut Kajian Perladangan / *Institute of Plantation Studies*

Akademi Sukan / *Sports Academy*

Akademi Hutan Hujan / *Rainforest Academy*

Sekolah Pengajian Siswazah / *School of Graduate Studies*

Sekolah Pengajian Siswazah Pengurusan / *Graduate School of Management*

Pusat Perkhidmatan Kerjaya dan Alumni / *Centre for Career and Alumni Services*

Pusat Pengurusan Penyelidikan / *Research Management Centre*

Pusat Pendidikan Luar / *Centre for External Programme*

Pusat Pembangunan Perniagaan / *University Business Centre*

Pusat Islam / *Islamic Centre*

Pusat Kebudayaan & Kesenian Sultan Salahuddin Abdul Aziz Shah / *Sultan Salahuddin Abdul Aziz Shah Arts and Cultural Centre*

Pusat Pembangunan Akademik / *Centre for Academic Development (CADE)*

Pusat Asasi Sains Pertanian / *Centre of Foundation Studies for Agricultural Science*

Pusat Kajian Strategik dan Inovasi Makanan / *Centre for Strategic Studies and Food Innovation*

Pusat Mekanisasi dan Pengautomatan Pertanian dan Makanan / *Centre for Food and Agricultural Mechanisation and Automation*

Pusat Pembangunan Usahawan Tani / *Centre for Agricultural Entrepreneur Development*

Pusat Pemajuan Profesional / *Professional Advancement Centre*

Pusat Kesihatan Mahasiswa / *Student Health Centre*

Laporan Naib Canselor

Vice Chancellor's Report



UPM telah diberikan satu tanggungjawab dan amanah yang amat besar dalam memacu kecemerlangan pendidikan pertanian di Malaysia. Dalam ucapan Bajet 2005, Yang Amat Berhormat Perdana Menteri telah memberikan fokus dan penekanan baharu dalam era pembangunan negara berdasarkan mandat yang diterima daripada rakyat kepada kerajaan. Kerajaan

pimpinan Y.A.B Dato' Seri Abdullah Haji Ahmad Badawi memberikan penekanan kepada sektor pertanian sebagai enjin ketiga pembangunan negara dan UPM telah diberi tanggungjawab dan amanah sebagai Pusat Kecemerlangan Pendidikan Pertanian. Dengan amanah yang jelas daripada pihak Kerajaan, UPM telah mengambil tindakan proaktif bagi



“Kerajaan pimpinan Y.A.B Dato’ Seri Abdullah Haji Ahmad Badawi memberikan penekanan kepada sektor pertanian sebagai enjin ketiga pembangunan negara dan UPM telah diberi tanggungjawab dan amanah sebagai sebuah Pusat Kecemerlangan Pendidikan Pertanian.”

memastikan hasrat dan mandat kerajaan ini dapat direalisasikan dan dilaksanakan secara efisien serta memberi impak sebagaimana yang diharapkan. Kesarjanaan yang dimiliki oleh UPM terutama dalam bidang pertanian dan bidang berkaitan dimanfaatkan dengan sebaik mungkin dengan memberi maklum balas serta respon kepada permasalahan

masyarakat terutamanya industri dalam bidang pertanian. Ini jelas menunjukkan kepercayaan dan pengiktirafan kerajaan kepada UPM dalam memberi sumbangan ke arah membangunkan sektor pertanian negara menerusi pendidikan, pembangunan dan penyelidikan serta pengkomersilan dan perkhidmatan profesional.

Suntikan sokongan dan dorongan Kerajaan dalam sektor pertanian telah menarik lebih ramai pihak baik daripada badan kerajaan mahu pun pihak swasta. Gelombang minat yang bercambah dan semakin meningkat dari semasa ke semasa membuka lebih banyak ruang kepada UPM dalam mengetengahkan penyelidikan yang lebih kompetitif dan amat relevan kepada sektor pertanian. Tuntutan bagi menghasilkan penyelidikan yang berkualiti dan memenuhi kehendak pasaran adalah antara cabaran yang dihadapi oleh warga UPM di samping cabaran sedia ada dalam memberikan perkhidmatan yang terbaik kepada pelanggan utama universiti. Namun, cabaran-cabaran ini telah melahirkan satu budaya kecemerlangan dikalangan warga UPM yang sentiasa berfikiran positif dan bersatu hati bagi memastikan kejayaan dan kegemilangan universiti. Warga UPM adalah merupakan aset yang amat bernilai kepada UPM dan UPM amat berbangga kerana memiliki warga kerja yang amat komited dalam menjamin kecemerlangan universiti.

Pemantapan Sistem Pentadbiran dan Pengajaran Universiti

Tahun 2005 menyaksikan perubahan dasar dan fokus pendidikan Institusi Pengajian Tinggi Awam dalam negara. Dalam usaha kerajaan untuk meningkatkan penarafan dan kedudukan IPTA tempatan di peringkat antarabangsa dan penilaian semula kepada aspek komersialisasi dalam penyelidikan di IPTA, perubahan dan penamaan semula jawatan Timbalan Naib Canselor telah dilaksanakan. Portfolio jawatan Timbalan Naib Canselor iaitu Akademik, Pembangunan dan Hal Ehwal Pelajar telah dipinda kepada portfolio Akademik dan Pengantarabangsaan,

Penyelidikan dan Inovasi dan Hal Ehwal Pelajar dan Alumni. Pertukaran nama dan portfolio ini juga memperlihatkan perhatian dan fokus kerajaan kepada kepentingan sumbangan alumni universiti terhadap kecemerlangan serta kesinambungan universiti pada masa hadapan.

Penubuhan Entiti dan Penawaran Program Pengajian Baharu

Selaras dengan fokus dan hasrat kerajaan supaya UPM menjadi sebuah Pusat Kecemerlangan Pendidikan Pertanian, beberapa langkah proaktif dan inisiatif segera telah dilaksanakan oleh universiti. Di antaranya ialah dengan mengemukakan cadangan penubuhan beberapa entiti pentadbiran di universiti bagi menyokong hasrat dan pelaksanaan matlamat yang ditetapkan oleh kerajaan. Inisiatif awal yang telah dikemukakan oleh universiti telah diluluskan oleh pihak kerajaan pada tahun 2005. Pengurusan Universiti berasa amat gembira dan merakamkan ucapan setinggi-tinggi terima kasih kepada pihak kerajaan kerana telah meluluskan kesemua inisiatif yang dikemukakan oleh UPM. Di antara entiti yang dimaksudkan ialah Institut Kajian Dasar Pertanian dan Makanan (IKDPM), Institut Makanan Halal (IMH), Institut Biokomposit Tropika (INTROB), Institut Pengembangan Pertanian (IPP), Pusat Pembangunan Usahawan Tani (PPUT), Pusat Kajian Strategi dan Inovasi Makanan (PKSM), Pusat Mekanisasi dan Pengautomatan Pertanian dan Makanan (PMPPM), Pusat Asasi Sains Pertanian, Sekolah Pengajian Siswazah Pertanian (GSA), Institut Kajian Perladangan.

UPM had been entrusted with vital responsibility to spur excellence in agricultural education in Malaysia. In the 2005 Budget Speech, the Honourable Prime Minister stated the need for a new focus and emphasis in the effort to develop the country as mandated by the people. The government led by the Y.A.B Dato' Seri Abdullah Haji Ahmad Badawi intensified the importance of the agricultural sector as the third engine of growth for the nation, and UPM was commissioned with the responsibility and confidence as the Centre of Excellence for Agricultural Education. With a strong support from the Government, UPM had adopted proactive measures to ensure that the aspirations and mandate of the government were accomplished and implemented with expectant impact and efficiency. The outstanding scholarly reputation of UPM, particularly in the agricultural and its related disciplines, has been beneficial in providing immediate feedback and response in managing problems faced by the community and the agriculture industry. This clearly demonstrated the government's trust and recognition of UPM's contributions to the nation's agricultural sector through education, development and research as well as through commercialisation and professional services.

The thrust of government support and encouragement in the agricultural sector had attracted more parties both from the public and the private sectors. The growing waves of interest have continuously provided more opportunities for UPM to highlight research which is highly

competitive and truly relevant to the agricultural sector. The demand in the production of quality research which satisfies the market needs was among the challenges faced by each individual staff of UPM, in addition to the existing challenge of providing excellent service to the University's major clientele. Nevertheless, these challenges have rendered a culture of excellence among the UPM community who embrace and practise optimism and unity in their endeavour to ascertain the success and glory of the university. Human capital is UPM's most valuable asset, thus UPM takes pride in employing people who are strongly committed to work towards the success of the university.

Strengthening University Administration and Teaching Systems

The year 2005 witnessed changes in the education policy and focus of the country's Public Institutions of Higher Learning (IPTA). With the government's efforts to raise the standard and the status of local IPTAs at the international level and the re-evaluation of commercialising research conducted by IPTAs, consequent change in leadership and re-designation of the Deputy Vice Chancellor's chair were deemed appropriate. Indeed, the Deputy Vice Chancellor portfolio which encompassed Academic, Development and Student Affairs was amended to include Academics and Internationalisation, Research and Innovation as well as Student Affairs and Alumni. The change in the name and portfolio also displayed the government's awareness and focus on the importance of

Manakala program baharu yang diluluskan oleh Kementerian Pengajian Tinggi Malaysia adalah seperti berikut:-

- Diploma Kejurulatihan Sukan di Fakulti Pengajian Pendidikan mulai sesi pengajian 2005/2006.
- Bachelor Pendidikan (Pendidikan Moral) bagi program PKPG anjuran Bahagian Pendidikan Guru dan UPM mulai sesi 2005/2006

Meningkatkan Nilai dan kebolehdapatan kerja Pelajar dan Graduan Universiti

Institusi Pengajian Tinggi Awam sekali lagi telah menarik perhatian masyarakat umum. Isu graduan menganggur adalah merupakan isu yang masih relevan dan menjadi fokus utama pihak kerajaan dan masyarakat. UPM percaya bahawa kebolehpasaran graduan sesebuah lepasan IPTA bukan sahaja disebabkan kepada prestasi dan hasil pengajian graduan semasa berada di universiti tetapi ia sebenarnya melibatkan polisi dan kaedah pendidikan negara secara keseluruhan. Dalam tempoh pengajian selama tiga (3) atau empat (4) tahun di universiti, kebolehpayaan universiti untuk mentransformasikan pelajar kepada graduan yang memenuhi kehendak pasaran adalah terhad. Faktor lain yang perlu diberikan perhatian ialah mengenai pasaran kerjaya yang tidak menentu dan mempunyai kriteria yang berbeza dalam pemilihan seseorang pekerja.

UPM telah mengambil langkah proaktif demi memastikan graduan yang dihasilkan berdaya saing dan akan dapat memenuhi kehendak pasaran kerjaya semasa. Di antara langkah yang telah diambil oleh UPM ialah bertukar ke arah pembelajaran

berpusat pelajar dengan mewujudkan suasana di mana pelajar membuat persiapan untuk mengikuti kuliah dan tutorial. Menerusi pendekatan ini, pelajar tidak seharusnya bergantung kepada nota kuliah semata-mata. Sebagai langkah permulaan universiti mewajibkan semua pelajar membeli buku teks. Bagi menyokong usaha ini, satu Skim Pembelian Buku Teks untuk memudahkan pelajar mendapatkan buku teks telah diperkenalkan. Program perintis Skim Pembelian Buku Teks (SPBT) sebagai salah satu strategi untuk memantapkan sistem pembelajaran berpusatkan pelajar. Sasaran utama SPBT adalah pelajar bagi program dalam bidang Perubatan, Perubatan Veterinar, Kejuruteraan, Perakaunan, Reka Bentuk dan Seni Bina. Dalam Skim ini pelajar akan diberikan pendahuluan sebanyak RM200.00 yang perlu diselaraskan oleh pelajar setiap semester.

Di samping itu, sebagai langkah memastikan kurikulum pengajian yang ditawarkan sentiasa relevan dengan keperluan industri, Universiti telah menubuhkan satu Jawatankuasa Perundingan Akademia-Industri di peringkat Universiti. Jawatankuasa tersebut adalah bertanggungjawab merancang dan meningkatkan aktiviti dan keberkesanan jalinan UPM dengan pihak industri.

Selain daripada aktiviti yang dinyatakan di atas, Universiti juga telah merangka beberapa aktiviti sama ada berbentuk akademik atau kokurikulum untuk melahirkan pelajar dan graduan yang berketerampilan dan mampu bersaing di arena nasional dan internasional. Misalnya dalam Forum Perdana Memperkasakan Mahasiswa, gabungan tiga (3) elemen kecerdasan iaitu IQ (intelligent quotient EQ

the university alumni's contributions towards the glory and the uniformity of the university in the future.

Establishment of new entities and Provision of new education programmes

In line with the focus and aspiration of the government for UPM to develop as a Centre of Excellence for Agricultural Education, the university implemented several immediate proactive steps and initiatives. Among these was the proposal to establish various new administrative entities to support and execute the objectives formulated by the government. These new initiatives proposed by the university were approved by the government in 2005. The university's management team were ecstatic and extremely grateful to the government for approving all the proposed initiatives. Among the entities proposed were:

- a) Institute of Agricultural and Food Policy Studies
- b) Institute of Halal Food
- c) Institute of Tropical Biocomposite (INTROB)
- d) Institute for Agricultural Extension
- e) Institute of Agricultural Entrepreneur Development
- f) Centre for Strategic Studies and Food Innovation
- g) Centre for Food and Agricultural Mechanisation and Automation
- h) Centre of Foundation Studies for Agricultural Science
- i) Graduate School of Agriculture (GSA)

and Institute of Plantation Studies

On the other hand, the new programmes approved by the Ministry of Higher Education, Malaysia included:-

- Diploma in Sports Training in the Faculty of Educational Studies commencing in 2005/2006 session
- Bachelor of Education (Moral Education) for the PKPG programme organised by the Teacher's Education Division and UPM commencing in 2005/2006 session

Enhancement of value and job marketability of university students and graduates

The Public Institute of Higher Learning has yet again drawn the attention of the general public. The issue of unemployed graduates was still relevant and indeed the main focus of the government and the community. UPM believes that the marketability of graduates from any IPTA was not only dependent on their performance and achievements while at university but was also reflective of the national education policies and system holistically. The potential of a university to transform students into marketable graduates who would fulfil market requirements in 3 to 4 years was significantly limited. Another factor which needed to be considered was the unstable employment market which was proven to have differing criteria in the selection of employee.

UPM postulated proactive initiatives to ensure graduates who were highly competitive and capable of meeting the

(emotional quotient) dan SQ (spiritual quality), bagi menghasilkan personaliti unggul. Sementara itu, tujuh (7) forum iaitu Graduan World Class, Misi Perdana Menteri, Malaysia dan Politik Antarabangsa, Keselamatan Negara, Cabaran Ekonomi Negara, Islam Hari Ini, dan Mahasiswa dan Politik telah diadakan sempena Konvensyen Majlis Perwakilan Pelajar IPTA 2006. Universiti juga sentiasa memupuk semangat sukarelawan dan menyumbang kepada masyarakat dalam kalangan mahasiswa universiti. Misalnya, sempena dengan Kempen Budi Bahasa dan Nilai-nilai Murni Peringkat Universiti Putra Malaysia, satu Gotong-royong Perdana telah diadakan di Pantai Kelanang, Kuala Langat, Selangor. Gotong-royong ini telah diadakan pada 24 Julai 2005 dan dirasmikan oleh Y.B. Dato' Dr. Hj. Shafie bin Hj. Mohd Salleh, Menteri Pengajian Tinggi juga merangkap ahli parlimen Kuala Langat.

Pengelasan Institut Pengajian Tinggi Awam (IPTA) Bagi Tujuan Penarafan (Rating)

Universiti sentiasa menyokong usaha dan tindakan pihak Kementerian Pengajian Tinggi Malaysia dalam usaha memartabatkan sektor pendidikan negara. Maklumat terkini yang diperoleh oleh universiti ialah pihak Kementerian Pengajian Tinggi sedang menjalankan kerja-kerja penarafan untuk IPTA di Malaysia dan akan wujud tiga (3) kelas universiti yang akan digunakan untuk penarafan tersebut iaitu Universiti Umum, Universiti Penyelidikan, dan Universiti Khusus. Berdasarkan kepada rekod dan prestasi pencapaian UPM, Pengurusan Universiti akan melaksanakan usaha sebaik mungkin bagi mengelaskan UPM sebagai sebuah Universiti Penyelidikan.

Pengurusan Ilmu

UPM telah mengambil langkah membangunkan *Knowledge Management Portal* atau KM Portal untuk membantu UPM mengenal pasti pakar, bidang kepakaran, dan mengumpulkan hasil penulisan serta penyelidikan pegawai akademik bagi tujuan menjana, berkongsi dan menggunakan ilmu secara lebih intensif di kalangan warga UPM. Para staf telah diminta memasukkan data CV meliputi perkara-perkara akademik dan pendepositan ilmu yang dihasilkan oleh pegawai akademik ke dalam KM Portal yang dibangunkan. Sebagai usaha menggalakkan pegawai akademik untuk memasukkan data CV ke dalam KM Portal, maklumat pegawai dalam Borang Penilaian Prestasi SSM akan dicetak berdasarkan maklumat dalam KM Portal dan pegawai tidak perlu lagi melengkapkan borang tersebut secara manual. UPM KM Portal ini akan berfungsi sebagai satu pangkalan ilmu korporat yang mampu menyokong penggunaan harta intelek universiti secara lebih efektif dan terancang.

Pada masa yang sama, sebagai melengkapkan usaha universiti bagi memastikan pengurusan harta intelek dan kepakaran yang dimiliki diuruskan secara efektif dan terancang, Pusat Pengurusan Penyelidikan (RMC) Universiti telah mengambil inisiatif untuk menerbitkan buku '*Research Grant Directory: National & International*' dan '*Research Directory: Product, Service & Expertise Part 1*' yang menyenaraikan pegawai UPM dan bidang kepakaran masing-masing untuk memudahkan rujukan dibuat kepada mereka sama ada dari agensi kerajaan, swasta dan masyarakat umum.

current market requirements. A pertinent measure included the shift towards student-centred learning approach by creating an environment in which students were responsible for their own preparation in attending lectures and tutorials. This approach would hinder students from being solely dependant on lecture notes. As an initial measure, the university made it mandatory for all students to acquire text books. To further support such an initiative, a textbook Purchasing Scheme was introduced to enable students to buy textbooks. Indeed, this initial Text Book Purchasing Scheme (SPBT) indicated one of the strategies to strengthen the student-centred learning approach. SPBT mainly targeted students from the Medical, Veterinary Medicine, Engineering, Accountancy as well as Architecture and Design faculties. This scheme provided students with an advance of RM200.00 which could be organised at every semester.

Additionally, as a step to ensure that the teaching curriculum is continually relevant to the needs of the industry, the university established an Academia-Industry Consultative Committee at the university level. The committee was afforded the responsibility to plan and increase activities and the effectiveness of UPM's affiliations with the industry.

Apart from the activities mentioned above, the university has also formulated a range of academic and co-curriculum activities to produce students and graduates who are charismatic and competitive in the national and international arenas. For

example, in the Graduates Enhancement Premier Forum, 3 significant elements of intelligence namely, IQ (intelligent quotient), EQ (emotional quotient) and SQ (spiritual quotient), were employed to produce outstanding personalities. Furthermore, in conjunction with the IPTA Student Representatives Assembly Convention 2006, UPM conducted 7 different forums: World Class Graduates, Prime Minister's Mission, Malaysia and International Politics, National Security, National Economic Challenges, Islam Today and Undergraduates and Politics. The university also continuously encouraged the spirit of volunteerism and community service among the university undergraduates. For example, in conjunction with the Courtesy and Noble Values Campaign at Universiti Putra Malaysia, the Pantai Kelanang Premier Gotong-royong, Kuala Langat, Selangor was organised. The event which was held on 24 July 2005 was officiated by Y.B. Dato' Dr. Hj. Shafie bin Hj. Mohd Salleh, the Minister of Higher Education who was also the Member of Parliament for the Kuala Langat constituency.

Classification of Public Institutions of Higher Learning (IPTA) for Rating Purposes

The University continuously demonstrated its supports for the efforts and measures taken by the Ministry of Higher Education, Malaysia in enhancing the national education sector. The latest information obtained by the university revealed that the Ministry has been conducting rating exercises for Malaysian Public Institutions



Pengenalan Dasar Kesihatan dan Keselamatan

Selaras dengan Matlamat 4 Universiti Putra Malaysia iaitu memantapkan sistem pengurusan berkualiti yang cekap dan berkesan, telus dan mesra pelanggan dan Matlamat 5 iaitu membangunkan sumber manusia serta persekitaran profesional yang cemerlang, UPM telah melancarkan Dasar Kesihatan dan Keselamatan Universiti. Dasar ini menetapkan bahawa UPM akan sentiasa mementingkan budaya kerja yang selamat dan sihat melalui perkongsian tanggungjawab antara pihak pengurusan dengan pekerja mengikut kapasiti masing-masing bagi mewujudkan persekitaran tempat kerja yang kondusif. Isu keselamatan, kesihatan dan kebajikan akan diberi kepentingan dan diambil tindakan yang sama status kepentingannya dengan matlamat utama UPM. Sistem Pengurusan Keselamatan dan Kesihatan Pekerjaan akan dilaksanakan dan disemak semula dari semasa ke semasa untuk memastikan adanya kesinambungan program ke arah pembaikan yang berterusan.

Projek Perintis Berbasikal Pelajar

UPM muncul sebagai IPTA pertama di Malaysia yang menyediakan basikal sebagai kemudahan alternatif pengangkutan terbaharu kepada mahasiswa. UPM telah memperuntukkan kira-kira 300 buah basikal kepada pelajar Kolej Mohamad Rashid (KMR), mahasiswa Kolej Ke-2 dan ahli Majlis Perwakilan Pelajar (MPPUPM) sebagai projek perintis. Program berbasikal di kalangan mahasiswa dapat mengurangkan kadar penggunaan kenderaan lain terutamanya kereta dan motosikal yang boleh menyebabkan kesesakan dan dapat mengurangkan kadar kemalangan jalan raya. Kampus berbasikal bukanlah sesuatu yang baru dalam budaya Universiti. Universiti-universiti terkemuka terutamanya di Jepun, seperti Kyoto University telah lama menggunakan basikal sebagai pengangkutan utama dalam kampus di kalangan staf dan pelajar. Jarak dari kolej kediaman ke Zon Akademik adalah berbeza-beza antara kurang daripada 1 km kepada lebih daripada 2 km. Oleh itu basikal merupakan satu medium yang sesuai digunakan oleh seseorang pelajar. Walaupun penggunaan basikal akan mengeluarkan peluh, tetapi ini merupakan permulaan cara hidup dan amalan fizikal untuk kesihatan yang baik.

Khidmat Masyarakat

Pada 26 Disember 2004 yang lalu, masyarakat dunia telah dikejutkan dengan peristiwa Gempa Bumi dan Gelombang Tsunami yang telah melanda dan menenggelamkan Banda Aceh, Indonesia. Ratusan ribu nyawa telah terkorban dalam bencana tersebut. Warga Malaysia amnya dan warga UPM khususnya menginsafi dan berasa dukacita

of Higher Learning and thus, would see the creation of 3 classifications of universities which would reflect their rating; this includes General Universities, Research Universities and Specialised Universities. Based on UPM's record of achievements, the University Management would expend all efforts to have UPM classified as a Research University.

Knowledge Management

UPM has initiated steps to develop a Knowledge Management Portal or KM Portal to assist UPM in identifying experts, fields of expertise and collation of written works and research by academic officers for purposes of creating, sharing and applying knowledge more intensively among UPM community. Staff members have been required to highlight CV data reflective of both their academic details as well as knowledge repositories into the developed KM portal. In the effort to encourage academic officers to include CV data into the UPM Portal, the officer's SSM Performance Appraisal Form will be printed based on the information in the KM Portal and the officers will no longer have to complete the forms manually. The UPM KM portal will function as a corporate knowledge database capable of supporting the usage of the university's intellectual assets more effectively and systematically.

In the meantime, to complement the efforts of the university in ensuring effective and systematic management of intellectual property and expertise, the University Research Management Centre

(RMC) had assumed the initiative to publish 2 publications entitled "Research Grant Directory: National & International" and 'Research Directory: Product, Service & Expertise Part I' which provides a list UPM officers and their respective fields of expertise. Such listings facilitate references to be made to them by government agencies, the private sector as well as the general public.

Introduction of Health and Safety Policy

In line with UPM's 4th goal that is to enhance the quality management system which was efficient and effective, transparent and client-friendly, and the 5th goal namely to create and develop an excellent human resource and professional environment, UPM had launched the University Health and Safety Policy. The policy states that UPM emphasises the importance of continuously maintaining a safe and healthy work culture in which both the management and staff are responsible for the creation of a conducive





di atas peristiwa yang berlaku. Mengikut rekod yang melibatkan rakyat Malaysia sahaja, seramai 68 nyawa telah terkorban, 276 cedera, 6,750 yang perlu dipindahkan dan kira-kira 5,997 nelayan telah terjejas punca mata pencarian. Kita juga merakamkan ucapan takziah kepada semua mereka yang terlibat. Sebagai rasa prihatin di atas bebanan yang ditanggung oleh keluarga mangsa, UPM telah mengadakan kutipan dan memberikan sumbangan dalam bentuk kewangan dan tenaga kepada mangsa terlibat. Beberapa staf UPM juga telah memberikan khidmat bantuan sukarela untuk membantu mangsa bencana tsunami di Kuala Muda, Pulau Pinang, Kedah dan di Banda Aceh untuk membantu mangsa dalam pelbagai aspek termasuk kaunseling dan perubatan.

Sebagai tambahan, seorang daripada pelajar UPM yang berasal dari Aceh telah terkorban dan 13 orang pelajar lagi telah kehilangan anggota keluarga. Pelajar UPM yang terlibat atau keluarganya menjadi mangsa tragedi tsunami, telah diberikan bantuan dan pengecualian yuran pengajian. UPM juga telah bersetuju untuk

memberikan bantuan berupa peluang pengajian kepada pensyarah-pensyarah Universiti dari Banda Aceh untuk melanjutkan pengajian di UPM dengan pengecualian yuran pengajian.

ENROLMEN DAN PENGAMBILAN PELAJAR

Prasiswazah

Enrolmen pelajar prasiswazah pada Semester Pertama sesi Akademik 2005/2006 adalah seramai 22,116 orang pelajar. Daripada jumlah tersebut, seramai 2,039 orang pelajar yang mengikuti pengajian peringkat Diploma, sementara 20,077 orang pelajar pula mengikuti pengajian peringkat Bachelor. Manakala enrolmen pelajar pada Semester Kedua sesi 2005/2006 ialah seramai 20,947 orang pelajar iaitu seramai 19,106 peringkat Bachelor dan seramai 1,841 orang pelajar peringkat Diploma. Jumlah enrolmen ini adalah meliputi kedua-dua buah kampus, iaitu Kampus Induk di Serdang, Selangor dan Kampus UPM di Bintulu Sarawak.

Bagi sesi 2005/2006, pengambilan pelajar prasiswazah ialah seramai 5,991 orang. Daripada jumlah tersebut, seramai 5,612 pelajar adalah diperingkat Bachelor dan seramai 379 orang pelajar adalah diperingkat Diploma.

Bilangan pengambilan pelajar ke UPM adalah selaras dengan perancangan Pelan Strategi UPM 2001-2010 yang menasarkankan bilangan prasiswazah UPM seramai 20,000 orang pelajar dan 10,000 pelajar pasca siswazah menjelang tahun 2010. Langkah ini adalah bagi memastikan kualiti pengajaran dan penggunaan sumber yang optimum dapat dilaksanakan dalam melahirkan graduan yang berkualiti,

working environment. The issues of safety, health and welfare will be given due consideration and be accorded similar degree of importance as the other main goals of UPM. Work Safety and Health Management systems will be implemented and regularly reviewed to ensure continuous improvement and continuity of the programme.

Pioneer Project of Student Cycling

UPM had emerged as the first Malaysian IPTA to provide bicycles as the latest alternative form of transportation for UPM undergraduates. In this pioneer project, UPM allocated approximately 300 bicycles to students from the Mohamad Rashid College (KMR), undergraduates from 2nd College and the members of Student Representative Council. The cycling programme for undergraduates can reduce the usage of other vehicles, particularly cars and motorcycles, which can cause congestion. It can also contribute to a reduction in the number of road accidents. A cycling campus does not pose a new phenomenon in a university environment. Well established universities, particularly in Japan, such as the Kyoto University, have long been utilising bicycles as the main means of transportation within campus for staff and students. In UPM, the distance from the residential colleges to the Academic Zone varies from less than 1km to more than 2km. Bicycles were therefore the most suitable medium of transportation for students. Although cycling stimulated perspiration, it also indicated the beginning of a good healthy new lifestyle and a practice of physical fitness.



Social Service

On December 26 2004, the world was dismayed by the natural calamities namely the earthquake and Tsunami waves which hit and submerged Banda Aceh in Indonesia. Thousands of lives were lost in the disaster. The Malaysian public in general and the UPM community in particular were shocked and saddened by these events. Records indicated that as far as Malaysians were involved, a total of 68 lives were lost, 276 injured and 6,750 displaced and approximately 5,997 fishermen lost their livelihood. We had deeply offered our condolences to all those affected. Concerned over the burden borne by the families of the victims, UPM organised a charity drive and thus contributions in the form of monies and manpower were distributed to the victims. A significant number of UPM staff members also provided voluntary service to Tsunami victims in Kuala Muda, Pulau Pinang and Kota Kuala Muda, Kedah as well as in Banda Aceh to assist victims in various ways including counselling and medical assistance.

berdaya saing dan berupaya untuk terus maju melalui pembelajaran yang berterusan.

Asasi Sains Pertanian

Dalam usaha melaksanakan amanah dan tanggungjawab yang diberikan oleh kerajaan supaya UPM menjadi Pusat Pendidikan Kecemerlangan Pertanian, UPM telah mengorak langkah dan mengemukakan permohonan bagi menubuhkan Pusat Asasi Sains Pertanian yang memberikan pendidikan asas kepada pelajar sebelum meneruskan pengajian di peringkat prasiswazah. Kementerian Pengajian Tinggi telah meluluskan permohonan UPM bagi menawarkan program Asasi Sains Pertanian mulai sesi akademik 2005/2006. Pada tahun 2005, kampus Serdang telah diceriakan dengan kehadiran pelajar bagi pengajian Asasi Sains Pertanian dengan pengambilan sulung pelajar seramai 30 orang. Pengalaman UPM mengendalikan Pusat Pengajian Matrikulasi sehingga tahun 2001 membolehkan Pusat Asasi Sains Pertanian dilaksanakan dengan cekap dan efisien.

Pasca Siswazah

Bagi pelajar pasca siswazah pula, enrolmen untuk tahun 2005/2006 ialah seramai 4,528 orang, Daripada jumlah tersebut enrolmen pelajar master ialah seramai 3,252 orang dan Doktor Falsafah (Ph.D) seramai 1,276 orang.

Pengurangan enrolmen pelajar pasca siswazah adalah disebabkan kekurangan geran penyelidikan bagi menampung pengajian pelajar terlibat. Bagaimanapun, universiti telah menyediakan strategi masa hadapan bagi mempromosikan program pengajian yang akan ditawarkan ke luar

negara. Beberapa siri promosi telah diadakan bagi menarik lebih ramai lagi pelajar luar negara untuk melanjutkan pengajian mereka di UPM.

Pengantarabangsaan Pendidikan

Sebagai langkah untuk memartabatkan pengajian tinggi di Malaysia, pelbagai usaha telah dilakukan oleh Kerajaan dalam menggalakkan Universiti bersaing dalam arena antarabangsa. Aktiviti pengantarabangsaan pendidikan tinggi telah mula dipergiatkan secara lebih berstruktur oleh pihak Kementerian Pengajian Tinggi Malaysia dengan pelantikan Timbalan Naib Canselor dengan portfolio Akademik dan Pengantarabangsaan mulai 1hb Jun 2005 di UPM. Pelantikan ini jelas menunjukkan komitmen kerajaan untuk memartabatkan sektor pendidikan tinggi negara di persada antarabangsa.

Selaras dengan usaha kerajaan tersebut, Universiti telah mengambil tindakan segera dengan membuat penilaian dan semakan semula Pelan Strategi UPM 2001-2010. Usaha telah dirancang bagi melaksanakan



In addition, a UPM student from Aceh was found dead in the disaster while 13 others lost their family members. These students and their families were given assistance and tuition fee exemptions. UPM also agreed to provide opportunities to lecturers from the Universities in Banda Aceh to continue their education in UPM with fee exemptions.

STUDENT INTAKE AND ENROLMENT

Undergraduates

The enrolment of undergraduate students in the first Semester for the Academic session 2005/2006 came to 22,116 students. From this total, 2,039 students were enrolled in Diploma level studies while 20,077 students enrolled in the Bachelor's programme. Student enrolment for the second semester 2005/2006 session totalled 20,947, with 19,106 for the Bachelor's programme and 1,841 students at Diploma level. These enrolment figures encompass both the principal campus in Serdang, Selangor and the UPM branch campus in Bintulu,

Sarawak.

For the 2005/2006 session, the undergraduate student intake totalled 5,991. Out of this figure, a total of 5,612 students were listed in the Bachelor's programme and 379 students in the Diploma level studies.

The student intake in UPM was reflective of the UPM Strategic Plan 2001-2010 which targeted at a total of 20,000 undergraduate students and 10,000 graduate students by year 2010. This was to ensure quality teaching and optimum utilisation of resources in generating graduates who possess quality, competitiveness and capability of developing further through continuous education.

Foundation Studies in Agricultural Science

In its efforts to fulfil the trust and responsibilities accorded by the government in developing UPM as a centre of excellence for agricultural education, UPM had initiated and proposed the establishment of the Centre for Foundation Studies in Agriculture Science which will provide students the basic education before they proceed to undergraduate level. The Ministry of Higher Education had approved UPM's application in the provision of the Agricultural Science Foundation programme commencing 2005/2006 academic session. In 2005, the Serdang campus welcomed the presence of students for the Agricultural Science Foundation programme, which resulted



penanda aras / penilaian ke atas makmal / institut bagi mendapat pengiktirafan makmal penyelidikan bertaraf dunia selaras dengan objektif 4 UPM. Beberapa strategi pengantarabangsaan dikenal pasti dan disusun supaya UPM tersenarai dalam *Top 200 Universities In The World (Times Higher Education Report 2005)* seperti berikut:

Penilaian peer group;

Promosi luar negara yang lebih agresif;

Bekerjasama dengan pihak Kementerian Pengajian Tinggi Malaysia untuk melaksanakan inisiatif yang dapat membantu melonjakkan *ranking* UPM/IPTA.

PENYELIDIKAN DAN PEMBANGUNAN

Selaras dengan matlamat menjadikan UPM sebuah universiti yang terkemuka dalam bidang penyelidikan, segala perancangan dan aktiviti sepanjang tahun 2005 disusun lebih rapi ke arah pencapaian matlamat tersebut. Dalam aspek peruntukan dana penyelidikan atau geran, UPM telah menerima geran penyelidikan IRPA sepanjang RMK-8 sehingga tahun 2005 daripada Kementerian Sains, Teknologi dan Inovasi (MOSTI) sebanyak RM 167 juta bersamaan 503 projek yang telah diluluskan. Bagi tahun 2005, jumlah peruntukan geran IRPA ialah sebanyak RM838,976.00.

Menerusi geran ini UPM telah berjaya menjalankan pelbagai penyelidikan dan pembangunan produk baru terutamanya dalam sektor agroindustri. Hal ini bersesuaian dengan *niche* UPM iaitu AgroBio.



Selain itu UPM turut memperoleh geran *Top Down National Biotechnology NBD (Topdown)* daripada Kementerian Sains, Teknologi dan Inovasi berjumlah 15,349,611. Daripada peruntukan tersebut sebanyak 10 projek penyelidikan telah dimulakan.

Pada 2005, Penyelidik UPM juga masih meneruskan kerja-kerja penyelidikan yang diperuntukkan di bawah Geran Penyelidikan Fundamental anjuran Kementerian Pendidikan. Sebanyak 105 projek penyelidikan masih berterusan menggunakan peruntukan tersebut.

Sepanjang 2005, UPM menggiatkan usaha mempatenkan hasil penyelidikan dan mengkomersialkannya. Sebanyak 7 hasil penyelidikan UPM telah dipatenkan di mana 3 daripadanya dipaten di Malaysia, 2 di Amerika Syarikat dan masing-masing 1 di United Kingdom dan Switzerland. Berbanding status '*Patent Pending*', sebanyak 82 hasil penyelidikan sedang dalam proses tersebut di mana 3 difailkan di Amerika Syarikat, 1 di Singapura dan selebihnya di Malaysia. Namun begitu, UPM masih mempunyai 32 hasil yang



from the initial intake of 30 students. UPM's past experience in managing the Matriculation Education Centre since 2001 had enabled the Centre For Foundation Studies in Agriculture Science to proceed effectively and efficiently.

Graduates

Graduate students enrolment for year 2005/2006 totalled 4,528. Out of this, Master's student enrolment totalled 3,252 and Doctor of Philosophy (Ph.D) candidates 1,276.

The reduction in graduate student enrolment was due to the diminution in research grants available to support the students involved. However, the university had devised future strategies in promoting education programmes abroad. Several promotion exercises had been conducted to attract more foreign students to continue their education in UPM.

Internationalisation of Education

In the endeavours towards enhancing higher education in Malaysia, various significant measures were implemented by the Government to encourage universities to compete in the international arena. A more structured internationalisation activities for higher education were actively organised by the Ministry of Higher Education, Malaysia. Indeed, the appointment of a Deputy Vice Chancellor with an Academic and Internationalisation portfolio beginning 1st June 2005 in UPM marked a significant move towards globalisation. This appointment distinctly reflects the strong commitment of the government in heightening the national higher education sector into a global arena.

In line with these efforts by the Government, the university immediately engaged in evaluating and reviewing the UPM Strategic Plan 2001-2010. Attempts were formulated to determine the benchmark/standards on laboratories/institutes to attain the international standard of research laboratory certification as outlined in UPM's 4th objective. Various internationalisation strategies were identified and organised to enable UPM to be in the list of the Top 200 Universities In The World (Times Higher Education Report 2005). The strategies include:

- i) Peer group evaluation;
- ii) More aggressive overseas promotions;
- iii) Cooperation with the Ministry of Higher Education, Malaysia to execute

masih dalam proses pemfailan paten. Sehingga Disember 2005, Pusat Pengurusan Penyelidikan telah menerima sebanyak 11 permohonan baru bagi pemfailan paten.

Secara khususnya, pecahan status permohonan paten bagi tahun 2005 adalah seperti berikut:

STATUS PEMFAILAN PATEN BILANGAN	
1. Patent Granted	7 (Malaysia=3, US=2, UK=1, Switzerland=1)
2. Patent Pending	82 (Malaysia=78, US=3, Singapura=1)
3. Under Process for Patenting	32
4. Permohonan Baru	11

PEMBANGUNAN FIZIKAL

Universiti ini terus berusaha untuk menyediakan kemudahan infrastruktur yang terbaik untuk memastikan kelancaran seluruh aktiviti pengajaran, penyelidikan dan kemudahan di Kampus Induk, Serdang serta Kampus Bintulu. Tahun 2005 pembangunan fizikal di Kampus Serdang dapat disaksikan secara terus apabila 4 projek pembangunan berjaya disiapkan dan 3 projek utama telah dimulakan pada tahun 2005, selain projek-projek naik taraf bangunan dan infrastruktur.

Antara projek utama yang berjaya disiapkan pada tahun 2005 ialah:

- A. Membina Jalan Masuk ke Loji Rawatan Kumbahan Fasa 2A
- B. Bangunan Fakulti Kejuruteraan Fasa 2B
- C. Dewan Kolegiat Kolej Ke-13

Terdapat juga beberapa projek pembinaan yang dimulakan proses kerja pada tahun 2005. Antaranya ialah:

- A. Membina Kompleks Persidangan
- B. Membina Klinik Haiwan Kesayangan
- C. Menaik taraf Persimpangan-Persimpangan utama di Kampus UPM

ANUGERAH DAN PENCAPAIAN

Prestasi penyelidik UPM di arena antarabangsa amat membanggakan pada tahun 2005. Pada tahun 2005, UPM berjaya meraih sebanyak 59 pingat atau anugerah di peringkat antarabangsa. Terdapat peningkatan sebanyak 25 pingat atau anugerah iaitu peningkatan sebanyak 73.53 % berbanding pingat dan anugerah yang diterima pada tahun 2004. Di **Geneva - Palexpo 2005 International Exhibition of Inventions, New Techniques and Products**, Saintis UPM berjaya menggondol 5 pingat Emas, 5 pingat Perak, 3 pingat Gangsa.

Manakala di **Pameran INPEX: International Invention and New Product Exposition 2005, Pittsburgh, USA** saintis telah memenangi 2 pingat Emas, RIFEILD, melalui Prof. Ir. Dr. Mohd Amid Mohd Soom dan Mustafa Yousif dan *Emergency Control Revert System for UAV/RPV* melalui Zairil Zaludin.

Dalam **Pameran Eureka 2005 di Brussels, Belgium** saintis dari UPM memenangi 5 pingat Emas dan 2 *Special Award* iaitu *Organization Mondiale Del La*

initiatives which could help expedite the UPM/IPTA ranking.

RESEARCH AND DEVELOPMENT

To enhance the potential of UPM as one of the renowned universities in the field of research, all plans and activities throughout year 2005 were organised carefully towards the achievement of this aim. In terms of research funding allocations or grants, UPM received IRPA research grants throughout the Eighth Malaysian Plan period till 2005 from the Ministry of Science, Technology and Innovation (MOSTI) totalling RM167 million together with 503 approved projects. For 2005, IRPA funding allocations totalled RM838,976.00.

With these grants UPM successfully conducted various research and development studies of new products particularly in the agro-industry sector. This significantly complemented UPM's niche area i.e. AgroBio.

Apart from this, UPM also obtained the Top Down National Biotechnology NBD (Topdown) grant from the Ministry of Science, Technology and Innovation totalling 15,349,611. From this allocation a total of 10 research projects were initiated.

In 2005, UPM researchers also continued to conduct research works allocated under the Fundamental Research grant extended by the Ministry of Education. A total of 105 research projects were still in progress.

Throughout 2005, UPM accelerated its efforts to patent and commercialise its

research products. A total of 7 UPM research outputs were patented in which 3 were patented in Malaysia, 2 in the USA and 1 in the United Kingdom and Switzerland respectively. A total of 83 research findings were in the process of 'Patent Pending', in which 3 were filed in the USA, 1 in Singapore and the remaining in Malaysia. Despite this, UPM still had 32 research products for which patenting process has been initiated. Until December 2005, the Research Management Centre had received a total of 11 new applications for patent filing.

The detailed breakdown of patent application status for 2005 was as follows:

PATENT FILING STATUS	NUMBER
1. Patent Granted	7 (Malaysia=3, US=2, UK=1, Switzerland=1)
2. Patent Pending	82 (Malaysia=78, US=3, Singapore=1)
3. Under Patenting Process	32
4. New Applications	11

PHYSICAL DEVELOPMENT

The University continued its efforts to provide the best infrastructure facilities to ensure the smooth operation of all teaching and research activities as well as other conveniences in the main campus in Serdang and the branch campus in Bintulu.

Presse Periodique (OMMPP), melalui *Daul-Core Erbium Doped Fiber Amplifier*, Prof. Dr. Mohd Khazani Abdullah dan Russian Federation (Federal Agency for Industry) Special Achievement Award, melalui Ahmad Samusri Mokhtar dengan produk *Composite Eriergy- Absorbing Keel Beam for General Aviation Aircrafts*. UPM juga berjaya mencipta kejayaan di London,

The British Invention Show (BIS 2005), 5 pingat Emas dan 2 anugerah Khas iaitu Special Award- Silver melalui Mohd Salleh Jaafar dengan projeknya *Interlocking Ferrocement Brick Composite Slab for IBS* dan Special Award- Gold, melalui Prof. Madya Dr. Megat Johari Megat Mohd. Noor dengan projek *Rainwater Harvester (RAWAT)*.

Pada **Pameran I-Tex: International Invention, Innovation Industrial Design and Technology Exhibition 2005** yang diadakan di PWTC, Kuala Lumpur, Penyelidik UPM memenangi 2 pingat Emas, 13 pingat Perak dan 15 pingat Gangsa serta telah memenangi *Best Booth Design* dan anugerah Khas University of Creativity yang berikan oleh National

United University Taiwan.

Pameran peringkat kebangsaan juga mencatat kejayaan buat penyelidik UPM di Pameran Biotechnology Asia bertempat di PWTC, Kuala Lumpur. UPM berjaya membawa pulang sebanyak 9 pingat, 4 pingat Emas, 3 pingat Perak dan 2 Gangsa. Manakala di Pameran IPTA 2005, penyelidik UPM berjaya memenangi 11 pingat Emas, 5 pingat Perak dan 13 Gangsa.

Selain kejayaan yang dicapai di pameran reka cipta, UPM juga telah berjaya menemui kaedah baru kesan bahan cemar. Kaedah dinamakan 'A Novel Method to Determine Hydrocarbon Pollution from Landfill Leachates' telah memenangi pingat emas pada Pameran Reka Cipta, Inovasi, Reka Bentuk Industri dan Teknologi 2005.

Satu lagi pencapaian yang membanggakan universiti ini ialah, kejayaan memenangi anugerah saintis bertaraf dunia Profesor Datin Dr. Khatijah Mohd. Yusoff telah mendapat pengiktirafan peringkat antarabangsa dalam bidang mikrobiologi. Beliau telah menemui Gen L, sejenis gen yang terdapat pada virus penyakit sampar ayam. Atas kejayaan itu, telah melayakkan beliau menerima anugerah tertinggi antarabangsa iaitu '2005 UNESCO-Carlos J. Finlay' pada 10 November 2005 di Budapest, Hungary. Beliau merupakan saintis wanita tempatan dan asia pertama yang menerima anugerah tertinggi tersebut.



In 2005, physical infrastructural development in the Serdang campus was evident when 4 development projects were completed and 3 major projects were initiated besides other building and infrastructure upgrading projects.

Among the main projects successfully completed in 2005 were:

- a) Construction of a road leading to the Phase 2A Sewage Treatment Plant
- b) The Phase 2B Engineering Faculty Building
- c) The Collegiate Hall, 13th College

There were also several building construction projects which began in 2005. Among them were:

- a) Construction of the Conference Complex
- b) Construction of the Pet Clinic
- c) Upgrading of the main intersections in the UPM campus

AWARDS AND ACHIEVEMENTS

UPM's research achievements in the international arena in 2005 were extremely commendable. In 2005, UPM succeeded in acquiring as many as 59 medals or awards at the international level. This was an increase of 25 medals or awards or an increase of 73.53 % compared to the number of medals and awards received in year 2004.

In the Geneva- Palexpo 2005 International Exhibition of Inventions, New Techniques and Products, UPM scientists succeeded in winning 5 gold, 5 silver and 3 bronze medals.

In the INPEX: International Invention and New Product Exposition 2005, Pittsburgh, USA, UPM scientists won 2 gold medals for RIFEILD, through Prof. Ir. Dr. Mohd Amid Mohd Soom and Mustafa Yousif and the Emergency Control Revert System for UAV/RPV through Zairil Zaludin.

In the Eureka 2005 Exhibition in Brussels, Belgium, UPM scientists won 5 gold medals and 2 Special Awards i.e. Organization Mondiale Del La Presse Periodique (OMMPP), for the Dual-Core Erbium Doped Fiber Amplifier, through Prof. Dr. Mohd Khazani Abdullah and Russian Federation (Federal Agency for Industry) Special Achievement Award, through Ahmad Samusri Mokhtar with his product Composite Energy- Absorbing Keel Beam for General Aviation Aircrafts.

UPM also achieved commendable successes in London. At the **British Invention Show (BIS 2005),** they won 5 gold medals and 2 special awards: Special Award- Silver through Mohd Salleh Jaafar for his project Interlocking Ferrocement Brick Composite Slab for IBS and Special Award- Gold, through Prof. Madya Dr. Megat Johari Megat Mohd. Noor with his project Rainwater Harvester (RAWAT).

At the I-Tex: International Invention, Innovation Industrial Design and Technology Exhibition 2005 held at PWTC, Kuala Lumpur, UPM researchers won 2 gold medals, 13 silver medals and 15 bronze medals and also won the Best Booth Design and special award for University of Creativity awarded by the National United University, Taiwan.



PERSEDIAAN SAMBUTAN 75 TAHUN UPM

UPM telah memulakan perancangan dan persediaan awal bagi sambutan Jubli Intan 75 Tahun UPM pada tahun 2006 akan datang. Pelbagai aktiviti telah dirancang bagi memastikan sambutan Jubli Intan 75 Tahun UPM dapat dilaksanakan dengan meriah dan apa yang lebih penting supaya sambutan tersebut memberikan satu nostalgia yang membawa manfaat kepada semua warga UPM dan masyarakat. Antara program yang dicadangkan ialah Program Promosi Setengah Hari Bersama Duta-duta dan Pesuruhjaya Tinggi, Pembinaan Menara Jam Warisan Budi Putra, Syarahan Awam Nobel Laureate, Majlis Konvokesyen Komemoratif dan banyak lagi berbentuk ilmiah yang dicadangkan.

Konvokesyen dan Graduan

Pada tahun 2005, UPM telah berjaya melahirkan seramai 10,162 graduan. Para graduan UPM tersebut telah dianugerahkan Ijazah dan Diploma pada Majlis Konvokesyen UPM kali ke-29, yang

telah diadakan dalam dua (2) Sidang iaitu pada 30hb Julai - 2hb Ogos dan 24hb - 26hb September 2005. Duli Yang Maha Mulia Sultan Sharafuddin Idris Shah Ibni Almarhum Sultan Salahuddin Abdul Aziz Shah, selaku Canselor UPM telah berkenan menyempurnakan pengurniaan Ijazah dan Diploma pada Majlis Konvokesyen UPM ke-29 tersebut. Duli Yang Maha Mulia Tuanku Canselor juga telah berkenan supaya Pro Canselor UPM iaitu Yang Berbahagia Tan Sri Dato' Thong Yaw Hong dan Yang Berbahagia Tan Sri Dato' Dr. Nayan bin Haji Ariffin menyempurnakan penyampaian Ijazah dan Diploma pada Majlis Konvokesyen tersebut.

Pengurniaan Ijazah Kehormat

Yang Berbahagia Datuk Ramli bin Ahmad, mantan Pengerusi Lembaga Pengarah UPM telah dianugerahkan Ijazah Kehormat Doktor Pengurusan pada Majlis Konvokesyen UPM ke-29 Sidang Pertama. Penganugerahan Ijazah Kehormat tersebut telah disempurnakan oleh DYMM Tuanku Canselor UPM.

Pemenang Hadiah Universiti sesi 2004/2005

Pada Majlis Konvokesyen UPM tersebut, DYMM Tuanku Canselor juga telah berkenan untuk menyempurnakan pengurniaan Hadiah Universiti kepada pemenang-pemenang hadiah universiti yang telah cemerlang dalam pembelajaran, kokurikulum dan kepimpinan. Pemenang-pemenang Hadiah Universiti adalah seperti berikut:-

There were also significant successes at the national level exhibitions particularly at the Biotechnology Asia Exhibition held at PWTC, Kuala Lumpur with UPM researchers taking home a total of 9 medals: 4 gold medals, 3 silver medals and 2 bronze. The IPTA 2005 Exhibition on the other hand witnessed UPM researchers succeeded in winning 11 gold medals, 5 silver medals and 13 bronze.

Apart from the successes achieved at design exhibitions, UPM also excelled in discovering a new method to detect pollutants. The method called 'A Novel Method to Determine Hydrocarbon Pollution from Landfill Leachates' won the gold medal at the Design, Innovations and Architectural Industry and Technology Exhibition 2005.

Another important success for the university is the international accolade in the field of microbiology accorded to Professor Datin Dr. Khatijah Mohd. Yusoff as a world-class scientist. The professor has successfully discovered Gen L, a gene found in the Bird Flu Epidemic virus. This discovery accredited her with the highest international '2005 UNESCO-Carlos J. Finlay' award on 10 November 2005 in Budapest, Hungary. The professor became the first local and Asian female scientist to receive this prestigious award.

Preparations to Celebrate UPM's 75th Anniversary

UPM has initiated careful preparations to celebrate UPM 75th Diamond Jubilee in the year 2006. Various activities have been planned to ensure the UPM 75th Diamond

Jubilee will be celebrated in grandeur and more importantly that the celebrations bring back nostalgic memories beneficial to all in UPM and the community. Among the programmes proposed are the Half-Day with Ambassadors and High Commissioners Promotional Programme, the Budi Putra Heritage Clock Tower Construction, Nobel Laureate Public Lecture, Commemorative Convocation Assembly, and many more academic related activities.

Convocation and Graduates

In 2005, UPM succeeded in producing 10,162 graduates. These UPM graduates were awarded Degrees and Diplomas during the 29th UPM Convocation Assembly which was held in 2 sessions i.e. from 30th July- 2nd August and from 24th-26th September 2005. His Royal Highness Sultan Sharafuddin Idris Shah Ibni Almarhum Sultan Salahuddin Abdul Aziz Shah, the UPM Chancellor graced the ceremony and officiated the presentation of the Degree and Diploma to the recipients during the 29th UPM Convocation Assembly. His Royal Highness the Chancellor had also granted his blessings that the UPM Pro



PINGAT EMAS CANSOLOR:

Mohd Firdauss bin Romeli

ANUGERAH PELAJARAN DIRAJA:Mohd Firdauss bin Romeli
Selvamar a/p Selvaraju**PINGAT EMAS ALUMNI:**

Low Tien Gee

PINGAT EMAS YAYASAN PAK RASHID:

Azlina binti Mohd Khir

HADIAH SYED KECHIK:

Fariza Hanim binti Radzuan

Pecahan graduan yang bergraduasi pada tahun 2005 ialah seramai 181 orang telah berjaya memperoleh Ijazah Doktor Falsafah (Ph.D), seramai 1,459 Ijazah Master, seramai 7,179 graduan Ijazah Bachelor dan seramai 1,342 graduan Diploma. Seramai 203 graduan Master dan Ph.D merupakan pelajar antarabangsa.

PENUTUP

Sepanjang tahun 2005 beberapa pencapaian yang dicatatkan oleh UPM merupakan usaha dan komitmen semua warganya dari pelbagai peringkat dan pangkat bagi merealisasikan matlamat ke arah Universiti Bertaraf Dunia menjelang 2010 seperti yang terkandung dalam Pelan Strategi UPM 2001-2010.

Menjelang Sambutan Jubli Intan 75 Tahun UPM, rekod kejayaan dan prestasi kecemerlangan UPM sehingga kini adalah satu kejayaan yang boleh dibanggakan oleh warganya. Namun, kita sesungguhnya tidak lupa, bahkan sentiasa memperbaiki kelemahan dan mencari kaedah serta inovasi terkini bagi melonjak ke tahap yang lebih tinggi. Setinggi-tinggi penghargaan dan ucapan terima kasih kepada semua warga UPM, alumni dan pesara UPM yang telah menyumbang bakti demi kecemerlangan UPM pada masa kini. Sesungguhnya kejayaan UPM bukan bergantung kepada kebolehan mana-mana individu, tetapi kepada sejauh mana kemampuan semua warga UPM untuk bergerak secara berpasukan. Semua pihak mempunyai tanggungjawab untuk membawa UPM ke mercu kejayaan yang lebih gemilang.



Chancellors, the Honourable Tan Sri Dato' Thong Yaw Hong and the Honourable Tan Sri Dato' Dr. Nayan bin Haji Ariffin complete the conferment of the Degrees and Diplomas during the Convocation Ceremony.

Conferment of Honorary Degree

The Honourable Datuk Ramli bin Ahmad, the previous Chairman of UPM Board of Directors was conferred an Honorary Doctorate in Management in the 1st Session of the 29th UPM Convocation Assembly. The Honorary Doctorate was conferred by His Royal Highness the Canselor of UPM.

University Prize Winners 2004/2005 session

At the UPM Convocation Assembly, His Royal Highness the Chancellor also conferred university awards to the winners who demonstrated outstanding achievements in education, co-curriculum and leadership. The university award recipients were as follows:-

Chancellor's Gold Medal

Mohd Firdauss bin Romeli

Royal Studies Award (Anugerah Pelajaran DiRaja)

Mohd Firdauss bin Romeli
Selvamar a/p Selvaraju

Alumni Gold Medal

Low Tien Gee

Pak Rashid Foundation Gold Medal

Azlina binti Mohd Khir

Syed Kechik Prize

Fariza Hanim binti Radzuan

In 2005, 181 graduates successfully attained the Doctor of Philosophy (Ph.D) qualifications, 1,459 the Master's Degrees, 7,179 the Bachelor's degree and 1,342 the Diploma's. A total of 203 Master's and Ph.D graduates were foreign students.

CONCLUSION

Throughout 2005 a significant number of achievements were accomplished by UPM, a testimony to the efforts and commitment of all the staff, from various levels and rank, to realise the objective of attaining a world-class University status by year 2010 as outlined in UPM's strategic plan 2001-2010.

As we approach the UPM 75th Diamond Jubilee Anniversary, UPM's widely acclaimed successes and outstanding achievements to date are an accomplishment that all staff of UPM can be especially proud of. Nevertheless, we must never forget, indeed we must continuously strive to overcome our weaknesses and to find new methods and latest innovations to advance to a higher level. We express our heartiest gratitude and appreciation to all UPM staff and families, UPM alumni and UPM retirees who have contributed extensively to the glory of UPM. UPM's success is not attributed to the ability of any one individual but to the ability of all UPM staff in coming together to operate as a team. All parties bear the responsibility to steer UPM to greater heights of success in the years to come.

Gemilang Pertanian

Outstanding in Agriculture





“Universiti Putra
Malaysia Terus
Mengungguli
Dipelbagai
Bidang
Penyelidikan Dan
Kini Telah Diiktiraf
Sebagai Pusat
Kecemerlangan
Pendidikan
Pertanian
Sewaktu
Pembentangan
Bajet 2005.”

Semasa pembentangan tersebut, Perdana Menteri, Y.A.B. Datuk Seri Abdullah Ahmad Badawi, menyatakan satu daripada tiga tumpuan bagi menjadikan Malaysia pengeluar global yang kompetitif bagi produk pertanian berkualiti tinggi, selamat dan memenuhi piawaian antarabangsa ialah membangunkan sumber tenaga mahir dengan menjadikan UPM sebagai pusat kecemerlangan pendidikan pertanian. Di samping itu UPM turut diiktiraf sebagai Pusat Kecemerlangan Agrobioteknologi oleh Polisi Kebangsaan Bioteknologi.

Dalam usaha mentransformasi UPM sebagai universiti tersohor dalam bidang penyelidikan dan pembangunan, UPM sehingga kini telah menubuhkan 12 institut R&D. Bagi menyahut seruan YAB Perdana Menteri Malaysia dan kehendak negara agar Universiti Putra Malaysia menjadi pusat kecemerlangan pendidikan pertanian, lima (5) institut dan empat (4) pusat



kecemerlangan baru telah ditubuhkan pada 1 Jun 2005. Usaha ini adalah untuk mempertingkatkan lagi inisiatif bagi menjadikan industri asas tani sebagai jentera ketiga pertumbuhan ekonomi negara. Institut dan pusat kecemerlangan penyelidikan baru yang ditubuhkan pada tahun 2005:

- Pusat Asasi Sains Pertanian (PASP)
- Institut Biokomposit Tropika (INTROB)
- Institut Kajian Dasar Pertanian dan Makanan (IKDPM)
- Institut Kajian Perladangan (IKP)
- Institut Makanan Halal (IMH)
- Institut Pengembangan Pertanian (IPP)
- Pusat Kajian Strategik dan Inovasi Makanan (PKSIM)
- Pusat Mekanisasi dan Pengautomatan Pertanian dan Makanan (AGROMAC)
- Pusat Pembangunan Usahawan Tani (AgroPAC)

Pusat Asasi Sains Pertanian dengan pengambilan pelajar sulung seramai 30 orang mulai tahun 2005, bermatlamatkan

untuk menyediakan pelajar-palajar yang mempunyai asas dan minat yang mendalam dalam bidang pertanian dan seterusnya berkecenderungan tinggi untuk meneruskan pengajian dalam bidang yang sama di peringkat ijazah. Penubuhan pusat ini juga menepati matlamat ketiga Pelan Strategik UPM iaitu untuk meningkatkan keupayaan universiti ini sebagai pusat pengajian dan perkhidmatan pertanian serta biosumber terkemuka di peringkat antarabangsa. Selain itu program tersebut juga dapat melahirkan bakal graduan yang lebih kreatif, inovatif dan berupaya mengaplikasikan pengetahuan secara praktikal dan teknikal dalam sumber pertanian, lebih bijak membuat keputusan dan dapat merencana masa hadapan sektor pertanian negara serta seterusnya dapat menunjukkan keupayaan diri untuk bersaing bagi memajukan pertanian di peringkat global.

Program setaraf matrikulasi Kementerian Pengajian Tinggi itu terbuka kepada lulusan Sijil Pelajaran Malaysia yang cemerlang dan berminat dalam bidang pertanian. Sukatan pelajaran program ASP digubal berpandukan sukatan pelajaran matrikulasi dan pusat asasi institusi pengajian tinggi tempatan dan sukatan pelajaran Sijil Tinggi Persekolahan Malaysia. Pada dasarnya, taraf kursus Biologi, Fizik, Kimia dan Matematik adalah setara dengan subjek program Matrikulasi KPM.

Institut Biokomposit Tropika (*Institute of Tropical Biocomposite, INTROB*) telah ditubuhkan bagi menampung potensi Industri Biokomposit Malaysia yang berasaskan kayu. INTROB bakal menjadi Pusat Rujukan RIDC nasional bagi

Outstanding in Agriculture

Universiti Putra Malaysia continued to be the leading university in many fields of research. It has now been acknowledged as the Centre of Excellence for Agricultural Studies as outlined in the recent Budget 2005 presentation due to its progressively outstanding achievements in various fields of research. During the presentation, the Prime Minister, Datuk Seri Abdullah Ahmad Badawi stated that one of the three main thrusts in making Malaysia a competitive, safe, quality focused, and of international standard global producer was by developing skilled human resources. In addition, UPM had also been commissioned as the Centre of Excellence for Agrobiotechnology in the National Biotechnology Policy.

Currently, UPM has 12 research and development institutes in its efforts to become a renowned university in research and development. Besides that, it also established 5 institutes and 4 centres of excellence on 1 June 2005. These efforts were to enhance initiatives to develop agricultural-based industries as the third engine of national economic growth.

The new institutes and centres of excellence in research established in 2005 were:

- Centre of Foundation Studies for Agricultural Science (PASP)
- Institute of Tropical Biocomposite (INTROB)
- Institute of Agricultural and Food Policy Studies
- Institute of Plantation Studies
- Institute of Halal Food
- Institute for Agricultural Extension



- Centre for Strategic Research and Food Innovation
- Centre for Food and Agricultural Mechanisation and Automation (AGROMAC)
- Centre for Agricultural Entrepreneur Development (AGROPAC)

Centre of Foundation Studies for Agricultural Science was established to educate students who have a solid foundation and a strong interest in agriculture and who were highly inclined to continue their studies in agriculture at the degree level. In 2005, a number of 30 students enrolled in the programme and became the pioneers. The establishment of this centre was reflective of the third goal of the UPM Strategic Plan to develop UPM into an international centre for agricultural and bio-resource studies and services. This programme will generate future graduates who were creative, innovative, able to practically and technically apply the knowledge gained in agriculture resource, capable of making informed decisions as well as able to chart the future of the national agriculture. Additionally, they would be able to demonstrate their ability



mengusahakan gentian tropika dan untuk menjadi pemangkin bagi eksploitasi komersial biokomposit dan produk berkaitan. Di samping itu INTROB menawarkan khidmat RIDC terkini dan untuk membangunkan, meningkatkan serta memampankan daya saing negara dalam industri biokomposit dan industri berkaitan.

Institut Kajian Dasar Pertanian dan Makanan (IKDPM) ditubuhkan dengan objektifnya untuk menganalisis kesan perubahan dasar awam negara dan antarabangsa ke atas sektor pertanian dan makanan. Justeru, IKDPM melaksanakan dua fungsi utama, iaitu penyelidikan dan perkhidmatan profesional.

Institut Kajian Perladangan (IKP) ditubuhkan dengan tujuan membantu industri perladangan negara melalui penyelidikan strategik dan perkhidmatan profesional dalam tumpuan tertentu (niche area).

Institut Makanan Halal (IMH) ditubuhkan untuk menjalankan penyelidikan dan pembangunan dalam bidang makanan halal ke arah menjadi pusat rujukan, rundingan, latihan dan khidmat profesional serta

membantu Malaysia menjadi Hab Makanan Halal Global. Ia berperanan sebagai satu pusat sehenti yang menggunakan pelbagai pendekatan bersepadu untuk memajukan industri makanan halal antarabangsa. Antara aktiviti yang dirancang ialah membantu kerajaan menjalankan kajian untuk membentuk kaedah pengurusan, polisi, perundangan, strategi pemasaran dan perdagangan makanan halal kebangsaan dan antarabangsa.

Institut Pengembangan Pertanian (IPP) berperanan sebagai agen pengembangan utama dalam memberi perkhidmatan kepada masyarakat tani dan membantu meningkatkan keberkesanan proses pemindahan teknologi untuk menjadikan sektor pertanian di kalangan masyarakat luar bandar satu aktiviti komersial.

Pusat Kajian Strategik dan Inovasi Makanan (PKSIM) ditubuhkan untuk menjadi pusat rujukan dan perkhidmatan makanan dalam bidang sains dan teknologi makanan yang ditumpukan kepada kualiti makanan dan teknologi inovatif bagi industri pengeluaran makanan tempatan.

Pusat Mekanisasi dan Pengautomatan Pertanian dan Makanan (AGROMAC) ditubuhkan bermatlamatkan untuk menjadi sebuah pusat yang dapat menyumbang ke arah peningkatan produktiviti pertanian negara. Usaha yang dijalankan adalah menerusi penggunaan teknologi terkini, pengurusan jentera yang berkesan serta peningkatan produktiviti tenaga buruh agar ianya sentiasa kompetitif dan kekal sebagai salah satu penyumbang utama ekonomi negara.

to compete at the global level and thus, enhance agriculture industry.

This programme which was on a par with the Ministry of Higher Education's matriculation course, is offered to students who have obtained the Malaysian Certificate of Education and achieved excellent grades and were interested in agriculture. The programme's syllabus was adapted from the matriculation, Local Higher Learning Institutes and Higher School Certificate syllabuses. Indeed, the Biology, Physics, Chemistry and Mathematics courses were at par with Ministry of Education's matriculation programme.

The **Institute of Tropical Biocomposite (INTROB)** was established to support the potential of the wood-based Malaysian biocomposite industry. INTROB aspired to become the national RIDC Reference Centre in producing tropical fibre and as a catalyst for the exploitation of commercial biocomposite and relevant products. Besides that, INTROB also offered the latest RIDC services to develop, upgrade and enhance the nation's competitiveness in biocomposite and its related industries.

The **Institute of Agricultural and Food Policy Studies (IKDPM)** was established with the objective of analysing the effects of changes in national and international policies on agriculture and food. Therefore, IKDPM is responsible for two important functions of research and professional services.

The establishment of the **Institute of Plantation Studies (IKP)** was to enhance the national plantation industry through strategic and professional services in niche areas.



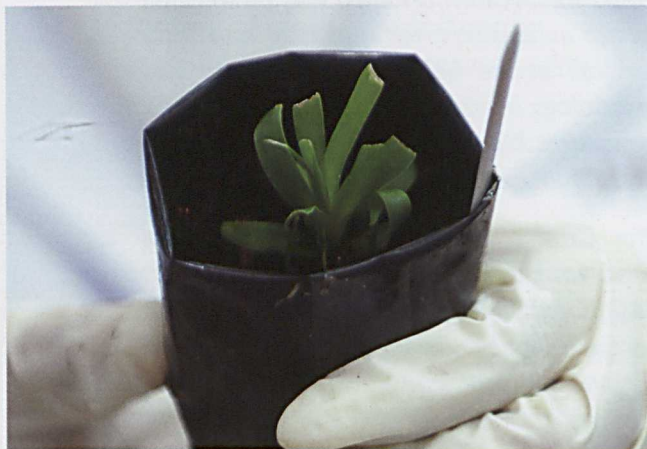
The **Institute of Halal Food (IMH)** was developed to serve as a centre for reference, discussion, training and professional services. It conducts research and development in the halal food sector in the effort to make Malaysia the Global Halal Food Hub.

The **Institute for Agricultural Extension (IPP)** functioned as the main extension agent in providing services to the agricultural community. It also helped to increase the effectiveness of technology transfer in order to inculcate agriculture practice as a commercial activity among the rural populace.

The **Centre for Strategic Studies and Food Innovation (PKSIM)** was established to act as a centre for reference and food services in the field of food science and technology. It focused on food quality and innovative technology in the production of local food.

The **Centre for Food and Agricultural Mechanisation and Automation (AGROMAC)** was developed to serve as a centre to contribute towards increasing the national agriculture productivity. The efforts are implemented through the use of the

Pusat Pembangunan Usahawan tani dikenali sebagai AgroPAC, membawa pengertian, agro bermaksud agriculture iaitu pertanian dan pac pula bermaksud *special-interest group* iaitu kumpulan kepentingan khusus. Gabungan dua perkataan ini membawa maksud "kumpulan kepentingan khusus pertanian" dan akan menggambarkan semangat yang dibawa oleh AgroPAC. Penubuhan AgroPAC adalah untuk membantu membangunkan usahawan dalam sektor pertanian dan industri asas tani yang mempunyai ciri-ciri inovatif, dinamik, bergerak ke hadapan, merintis usaha untuk menjadi petani moden, berdaya saing, bijak meneroka peluang dan potensi baharu serta gagah menghadapi cabaran. AgroPAC bakal mewujudkan satu rangkaian usahawan tani yang efektif dan kukuh yang menggabungkan lebih seribu orang ahli hasil daripada program AgroPAC dalam tempoh lima tahun akan datang. AgroPAC juga akan menjadi fasilitator dan penghubung antara graduan, sumber-sumber, program latihan, hasil kajian, ilmu pengetahuan, peruntukan, kemudahan dan bantuan kerajaan serta swasta di dalam dan luar negara yang boleh menjayakan objektif AgroPAC.



Kelompok Penyelidikan

Penubuhan institut dan pusat tersebut adalah langkah strategik UPM menjadi pusat kecemerlangan pertanian seperti mana yang dikehendaki oleh pihak kerajaan. Pada tahun 2005, sebanyak lapan (8) kelompok penyelidikan telah diaktifkan iaitu Pertanian, Makanan dan Perhutanan, Biosains dan Bioteknologi, Pengurusan dan Ekonomi, Kesihatan dan Sains Bersekutu, Teknologi Maklumat dan Matematik, Alam Sekitar, Tenaga dan Bahan, Kejuruteraan dan Sains serta Sains Sosial dan Kemanusiaan. Manakala pembukaan semula Universiti Putra Malaysia Kampus Bintulu telah menyediakan platform di Sarawak bagi latihan akademik dan merencanakan aktiviti penyelidikan dalam bidang pertanian dan biodiversiti. Penyusunan semula struktur organisasi Taman Pertanian Universiti memantapkan lagi sokongan kepada Universiti Putra Malaysia, yang berteraskan kepada pertanian.

Taman Pertanian Universiti

Taman Pertanian Universiti dikemas kini dan diterajui oleh seorang Ketua dari Kumpulan Pengurusan dan Profesional (Kumpulan Pertanian). Taman Pertanian Universiti memberi perkhidmatan sokongan kepada universiti dengan misi untuk menjadi pusat perkhidmatan dan kemudahan sokongan terbaik kepada pengajaran dan penyelidikan dalam bidang pertanian dan biosumber untuk pelajar, staf Universiti Putra Malaysia serta masyarakat.

Taman Pertanian Universiti memikul tanggungjawab dalam menyediakan kemudahan kawasan, peralatan serta

latest technology, effective management of machineries, and increasing labour production to ensure that the agricultural sector continuously remained competitive and progressively contributed towards the national economy.

The **Centre for Agricultural Entrepreneur Development** was known as AgroPAC. Agro refers to agriculture and pac can be defined as a special-interest group. Thus, AgroPAC means special-interest group in agriculture. AgroPAC was intended to help develop entrepreneurs in the field of agriculture and agro-based industries. These entrepreneurs should be innovative, competitive, dynamic, motivated, striving to be modern farmers, intelligent in exploring new avenues and potentials and dauntless enough in facing challenges. In the next five years, AgroPAC will strive to create a network of more than a thousand effective and stable entrepreneurs through its various programmes. In the endeavour to achieve its objectives both locally and internationally, AgroPAC will also operate as a facilitator and a bridge between graduates, resources, training programmes, research products, knowledge, allocations, facilities and government and private funding.

Research Cluster

The establishment of the institutes and centres was a strategic move by UPM towards becoming a centre of agricultural excellence as aspired by the government. A total of 8 clusters of research has been initiated in 2005. They were: Agriculture, Food and Forestry; Bioscience and Biotechnology; Management and Economics; Health and Integrated Science; Information Technology and Mathematics;



Environment, Energy and Material; Engineering and Science; and Social Science and Humanities. The reopening of Universiti Putra Malaysia (Bintulu Campus) has created a platform in Sarawak for academic training and research activities in the field of agriculture and biodiversity. Furthermore, the restructuring of the University Agriculture Park organisation had enhanced the support for the agriculture based university.

University Agriculture Park

The University Agriculture Park has been upgraded and is currently led by a Head of Department from the Management and Professional Group (Agriculture Group). The park provided supporting services to the university. Its mission was to become the best centre for the provision of support services and facilities for teaching and research in agriculture and bio-resources fields for students, staff of UPM and the society at large.

The park shoulders the responsibility in providing space, equipments and the best agriculture input towards raising the quality of teaching and learning and research in UPM. Pro-active experienced lecturers from



dilengkapkan dengan input pertanian terbaik dalam usaha meningkatkan kualiti pengajaran dan pembelajaran serta penyelidikan di Universiti Putra Malaysia. Tenaga pengajar yang berpengalaman dari berbagai bidang pengkhususan dan bersifat pro-aktif menjanjikan kualiti pengajaran yang dinamik. Dengan keupayaan tersebut Taman Pertanian Universiti dan Fakulti Pertanian telah dipertanggungjawabkan dalam melaksanakan Kursus, Amalan Ladang dengan harapan dapat melahirkan graduan yang mampu memenuhi kehendak negara dalam aspek pertanian moden.

Taman Pertanian Universiti merancang untuk membangunkan infrastruktur bilik pembiakan haiwan Kelas 100000 Bilik Bersih mengikut Piawaian Australia AS/NZS 1807.2000, Bangunan Rumah Semaian serta rumah kompos mentauliahkan Bangunan Reban Ayam Tertutup, Pusat Pemerahan Susu Ladang 16, Unit Ternakan, menaiktarafkan sistem Ladang Kongsi dan Sistem Rangkaian Komputer, Unit Agroteknologi.

UPM Kampus Bintulu

Kampus UPM Bintulu bermula dengan tiga pusat pengajian pada 27 Ogos 1987

membabitkan Institut Sains Gunaan, Institut Sains Asasi dan Institut Sains Sosial dan Pengurusan. Program yang ditawarkan pada awal penubuhan kampus itu ialah Diploma Pertanian, Diploma Perhutanan, Diploma Perniagaantani dan Program Pendahuluan. Pada tahun 2005, Fakulti Sains Pertanian dan Makanan (FSPM) menjadi fakulti tunggal dengan memberi tumpuan kepada bidang agro-bio seperti pertanian, perhutanan dan perikanan, kejuruteraan seperti kecemasan dan keselamatan dan sains sosial seperti etnik dan kemasyarakatan. Misi Kampus UPM Bintulu adalah untuk menjadi pusat pendidikan tinggi wilayah yang memberi sumbangan kepada pembangunan intelektual, sumber tenaga dan sosioekonomi negara. Bagi merealisasikan misi itu, UPM Bintulu yang semakin menyerlah dengan FSPM menawarkan program akademik yang relevan dan berdaya saing dalam bidang pertanian dan biosumber selain mewujudkan sistem pengurusan penyelidikan dan pembangunan (R&D) untuk melahirkan graduan serba boleh. Program pengajian di bawah FSPM merangkumi Bachelar Sains Bioindustri, Diploma Pertanian, Diploma Perhutanan, Diploma Perikanan, Diploma Pengurusan Perladangan Makanan, Diploma Kesihatan haiwan dan Penternakan, Diploma Perniagaantani dan Diploma Kejuruteraan (Kecemasan dan Keselamatan).

Inovasi Produk Berasaskan Pertanian

Tidak dinafikan UPM telah banyak membantu menjana sumber pertanian negara melalui pelbagai inovasi dan produk-produk pertanian. Pada tahun 2005, beberapa produk pertanian telah diperkenalkan diantaranya adalah Racun

various fields of specialisation ensured a dynamic, quality teaching. With such capability, the university park and the Faculty of Agriculture have been entrusted with the task of organising and implementing courses on plantation practices in the effort to produce graduates who were able to accomplish the nation's aspiration in today's modern agriculture.

The University Agriculture Park planed to develop the infrastructure for animal breeding Class 100000 Clean Room in accordance with the Australian Standard AS/NZS 1807.2000, the nursery, the Compost House, Closed Chicken Coop Building, Farm 16 Milking Centre, Animal Breeding Unit, the upgrading of Partnership Farm System and Computer Network System in the Agrotechnology Unit.

UPM Bintulu Campus

UPM Bintulu Campus began its operation on 27 August 1987 with three centres of education. They were: the Institute of Application Science, the Institute of Basic Science and the Institute of Social Science and Management. The programmes offered at the initial stage were Diploma in

Agriculture, Diploma in Forestry, Diploma in Agricultural Business and Beginners Programme. In 2005, the Faculty of Agriculture and Food Science (FSPM) became the only faculty which focussed on agro-bio fields such as agriculture, forestry and fishery, engineering (emergency and safety) and social science (ethnic and society). The mission of the campus was to become a regional higher education centre that contributes towards intellectual, human resource and the socio-economic development of the nation. To realise this mission, UPM Bintulu campus offers relevant and competitive academic programmes in agriculture and bio-resource fields besides creating R&D systems to produce multi-talented graduates. UPM Bintulu, which was gaining popularity in FSPM, offers programmes such as Degree in Bioindustrial Science, Diploma in Agriculture, Diploma in Forestry, Diploma in Fishery, Diploma in Food Plantation Management, Diploma in Animal Health and Breeding, Diploma in Agri-Business and Diploma in Engineering (Emergency and Safety).





Perusak formulasi ciptaan baru oleh Prof. Dr. Dzukhifli Omar, dari Jabatan Perlindungan Tumbuhan, Fakulti Pertanian. Manakala Prof. Madya Dr. Mohd Hair Bejo dari Fakulti Perubatan Veterinar telah berjaya membangunkan (DAS-Elisa) *Double Antibody Sandwich Elisa Kit for IBD Infectious Bursal Disease*. Prof. Dr. Abu Bakar Salleh pula menghasilkan pemangkin biologi berkeupayaan tinggi iaitu CHIRAZIM yang boleh digunakan pelbagai industri termasuk pertanian, makanan dan perubatan. Pembangunan MBSofax, pula lebih kepada penyelidikan kosmetik berasaskan bahan-bahan sawit telah dijalankan oleh Prof. Dr. Mahiran Basri, dari Fakulti Sains.

Prof. Datin Dr. Khatijah bt Mohd Yusoff, pula menjadi kebanggaan UPM dan layak digelar Saintis Bertaraf Dunia melalui penganugerahan UNESCO - Carlos J Finlay 2005, atas usaha beliau melakukan kerja-kerja penyelidikan dan penemuan Gen L iaitu sejenis gen yang terdapat pada virus sampar ayam. UPM turut terlibat dalam memajukan industri herba dengan kerjasama INS Biosains Berhad, menghasilkan produk makanan dan minuman daripada rumput (Wheatgrass). Memorandum Pesefahaman (MoU) antara kedua pihak telah ditandatangani pada 7 Mac 2005.



Agriculture Based Innovative Products

UPM had assisted tremendously in boosting the national agriculture resource through various innovations and agriculture products. Some agriculture products were introduced in 2005. Among them was a Pest Poison formulated by Prof. Dr. Dzulkifli Omar from the Department of Plant Protection, Faculty of Agriculture. Furthermore, Assoc. Prof. Dr. Mohd Hair Bejo (Faculty of Veterinary Medicine) had successfully developed the Double Antibody Sandwich Elisa Kit for Infectious Bursal Disease. Another researcher, Prof. Dr. Abu Bakar Salleh had produced high resolution biological catalyst (CHIRAZIM) which can be used by various agriculture, food and medical industries. Prof. Dr.

Mahiran Basri (Faculty of Science) on the other hand had developed MBSofax, a cosmetic product based on oil palm materials.

Prof. Datin Dr. Khatijah bt Mohd Yusoff became the university's pride as she has been honoured as a World Class Scientist when she was awarded the UNESCO - Carlos J Fnlay 2005 for her research work and identification of Gene L, a gene found in a chicken virus.

UPM is also actively involved in developing herbal industries in cooperation with INS Bioscience Berhad, producing food and drink products from wheatgrass. The Memorandum of Understanding between the two parties was signed on 7 March 2005.

Pengajaran & Pembelajaran

Teaching & Learning





“Pengajaran Dan Pembelajaran (P&P) Yang Berkesan Merupakan Aspek Penting Yang Menjadi Pencetus Kecemerlangan Sesebuah Universiti”



Pengajaran dan pembelajaran (P&P) yang berkesan merupakan aspek penting yang menjadi pencetus kecemerlangan sesebuah universiti. Sehubungan itu, UPM memberi penekanan yang serius untuk menyediakan dan memupuk suasana P&P yang kondusif.

Selaras dengan dasar kualiti UPM iaitu beriltizam ke arah kecemerlangan melalui penerapan budaya kualiti dalam semua aspek tanggungjawab untuk memenuhi ekspektasi pelanggan, UPM telah menetapkan agar setiap PTJ mendapatkan pensijilan MS ISO 9001:2000. Ini termasuklah melaksanakan pembelajaran berpusatkan pelajar (SCL), menetapkan kapasiti kuliah maksimum 80 orang dan kehadiran kuliah sekurang-kurangnya 80%.

Pembelajaran Berpusatkan Pelajar

Pembelajaran Berpusatkan Pelajar (SCL) yang digariskan dalam Pelan Strategi UPM 2001-2010 adalah pendekatan untuk membolehkan pelajar terlibat secara aktif dalam proses P&P. Kaedah SCL dapat menggalakkan kemahiran berfikir secara

kreatif dan kritis dalam menyelesaikan masalah. Pelajar yang mengikuti SCL akan lebih berkebolehan untuk membuat keputusan yang bijak dalam menghadapi pelbagai kemungkinan dan cabaran ini merupakan salah satu ciri graduan untuk mereka menghadapi alam pekerjaan. Sehubungan itu, beberapa siri latihan dan bengkel yang berkaitan telah diadakan untuk tenaga pengajar UPM bagi meningkatkan kecekapan dan memastikan SCL dapat dilaksanakan dengan berkesan.

Fakulti

UPM mempunyai 16 buah fakulti, iaitu 15 di kampus Serdang dan sebuah di kampus Bintulu, yang menawarkan pelbagai bidang pengajian.

- 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)

Effective teaching and learning (T&L) is an important aspect that serves as a catalyst towards ensuring a university's excellence. Therefore, UPM had strongly emphasised the provision and inculcation of a conducive teaching and learning environment.

The implementation of UPM's quality policy that aspired towards excellence through the inculcation of quality culture in all aspects of job responsibilities in the endeavour to satisfy the needs of the customers has necessitated UPM to ascertain all centres obtain the MS ISO 9001:2000 Certification. This included the implementation of student-centred learning approach (SCL), the maximum lecture capacity of 80 students and an attendance rate of at least 80%.

Student -Centred Learning (SCL)

The Student-Centred Learning (SCL) approach outlined in UPM Strategic Plan 2001-2010 provided a method that ascertain active participation of students in T&L process. SCL approach encouraged creative and critical thinking skills in finding solutions to problems. Students trained using SCL approach will be more skillful in making informed decisions when faced with different possibilities and challenges. These skills were vital in meeting the requirements of the employment industry. Therefore, a series of appropriate training programmes and workshops for UPM's teaching staff had been conducted to enhance their competencies and ensure effective implementation of SCL.



Faculty

UPM was comprised of 16 faculties, 15 in Serdang campus and one in Bintulu campus which offer a variety of courses including:

- 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 Science and Food Technology
- Faculty of Human Ecology
- Faculty of Modern Language 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 Science (UPMKB).

Institut

UPM mempunyai 12 institut yang memberi tumpuan kepada penyelidikan dalam bidang yang strategik (*niche area*) untuk memenuhi keperluan pelbagai sektor di dalam negara.

- Institut Biosains (IBS)
- Institut Teknologi Maju (ITMA)
- Institut Multimedia dan Perisian (IMP)
- Institut Pengajian Komuniti dan Keamanan (PEKKA)
- Institut Gerontologi (IG)
- Institut Penyelidikan Matematik (INSPEM)
- Institut Interim Farmaseutikal dan Nutrasedutikal Bioteknologi
- Institut Biokomposit Tropika (INTROB)
- Institut Kajian Dasar Pertanian dan Makanan (IKDPM)
- Institut Kajian Perladangan (IKP)
- Institut Makanan Halal (IMH)
- Institut Pengembangan Pertanian (IPP)

Akademi

- Akademi Hutan Hujan
- Akademi Sukan

Pusat Pengajian, Pembelajaran dan Penyelidikan

- Pusat Pendidikan Luar (PPL)
- Pusat Pengurusan Penyelidikan (RMC)
- Pusat Pembangunan Akademik (CADE)
- Pusat Pembangunan Perniagaan (UBC)
- Pusat Islam
- Pusat Kebudayaan dan Kesenian Sultan Salahuddin Abdul Aziz Shah
- Pusat Pemajuan Profesional (PACE)
- Pusat Perkhidmatan Kerjaya dan Alumni (PPKA)
- Pusat Asasi Sains Pertanian (PASP)
- Pusat Kajian Strategik dan Inovasi Makanan (PKSIM)
- Pusat Mekanisasi dan Pengautomatan Pertanian dan Makanan (AGROMAC)
- Pusat Pembangunan Usahawan Tani (AGROPAC)

Penubuhan Institut dan Pusat Baharu

Untuk menyahut seruan YAB Perdana Menteri Malaysia dan kehendak negara agar Universiti Putra Malaysia menjadi pusat kecemerlangan pendidikan pertanian, lima institut dan empat pusat kecemerlangan baharu telah ditubuhkan pada 1 Jun 2005. Usaha ini adalah untuk mempertingkatkan lagi inisiatif bagi menjadikan industri asas tani sebagai jentera ketiga pertumbuhan ekonomi negara.



Institute

UPM consists of 12 institutes which focus on research in niche areas to fulfill the requirements of the various sectors in the country. They are:

- Institute of Bioscience (IBS)
- Institute of Advanced Technology (ITMA)
- Institute of Multimedia and Software (IMP)
- Institute for Community and Peace Studies (PEKKA)
- Institute of Gerontology (IG)
- Institute for Mathematical Research (INSPEM)
- Interim Institute for Pharmaceutical and Neutraceutical Biotechnology
- Institute of Tropical Biocomposite (INTROB)
- Institute of Agricultural and Food Policy Studies (IKDPM)
- Institute of Plantation Studies (IKP)
- Institute of Halal Food (IMH)
- Institute for Agricultural Extension (IPP)

Academy

- Rainforest Academy
- Sports Academy

Teaching, Learning and Research Centres

- Centre for External Programme (PPL)
- Research Management Centre (RMC)
- Centre for Academic Development (CADE)
- University Business Centre (UBC)
- Islamic Centre
- Sultan Salahuddin Abdul Aziz Shah Arts and Cultural Centre
- Professional Advancement Centre (PACE)
- Centre for Career and Alumni Services (PKKA)



- Centre of Foundation Studies for Agricultural Science (PASP)
- Centre for Strategic Studies and Food Innovation (PKSIM)
- Centre for Food and Agricultural Mechanisation and Automation (AGROMAC)
- Centre for Agricultural Entrepreneur Development (AGROPAC)

New Institutes and Centres

In response to the Honourable Prime Minister of Malaysia's call and the nation's aspiration to develop UPM as the centre of excellence for agricultural education, five institutes and four centres of excellence were established on 1 June 2005. This initiative had been adopted in the effort to stimulate agro-based industries as the third engine of the national economic growth.

The institutes and the centres of excellence were:

- Institute of Tropical Biocomposite (INTROB)

Institut dan pusat kecemerlangan baharu yang ditubuhkan pada tahun 2005 adalah seperti berikut:

- Institut Biokomposit Tropika (INTROB)
- Institut Kajian Dasar Pertanian dan Makanan (IKDPM)
- Institut Kajian Perladangan (IKP)
- Institut Makanan Halal (IMH)
- Institut Pengembangan Pertanian (IPP)
- Pusat Asasi Sains Pertanian (PASP)



- Pusat Kajian Strategik dan Inovasi Makanan (PKSIM)
- Pusat Mekanisasi dan Pengautomatan Pertanian dan Makanan (AGROMAC)
- Pusat Pembangunan Usahawan Tani (AGROPAC)

Institut Biokomposit Tropika (INTROB)

INTROB ditubuhkan untuk menjadi Pusat Rujukan (RIDC) nasional bagi mengusahakan gentian tropika dan sebagai pemangkin bagi eksploitasi

komersil biokomposit serta produk berkaitan. Adalah menjadi hasrat INTROB dapat menawarkan khidmat RIDC terkini dan membangunkan, meningkatkan serta memampakan daya saing negara dalam industri biokomposit dan industri berkaitan.

Institut Kajian Dasar Pertanian dan Makanan (IKDPM)

Objektif utama IKDPM ialah menganalisis kesan perubahan dasar awam negara dan antarabangsa ke atas sektor pertanian dan makanan. Justeru, IKDPM melaksanakan dua fungsi utama, iaitu penyelidikan dan perkhidmatan profesional.

Institut Kajian Perladangan (IKP)

IKP ditubuhkan dengan tujuan membantu industri perladangan negara melalui penyelidikan strategik dan perkhidmatan profesional dalam tumpuan tertentu (*niche area*).

Institut Makanan Halal (IMH)

IMH ditubuhkan untuk menjalankan penyelidikan dan pembangunan dalam bidang makanan halal ke arah menjadi pusat rujukan, rundingan, latihan dan khidmat profesional serta membantu Malaysia menjadi Hab Makanan Halal Global. Ia berperanan sebagai satu pusat sehati yang menggunakan pelbagai pendekatan bersepadu untuk memajukan industri makanan halal antarabangsa.

Antara aktiviti yang dirancang ialah membantu kerajaan menjalankan kajian untuk membentuk kaedah pengurusan, polisi, perundangan, strategi pemasaran dan perdagangan makanan halal kebangsaan dan antarabangsa.

- *Institute of Agricultural and Food Policy Studies (IKDPM)*
- *Institute of Plantation Studies (IKP)*
- *Institute of Halal Food (IMH)*
- *Institute for Agricultural Extension (IPP)*
- *Centre for Strategic Studies and Food Innovation*
- *Centre for Food and Agricultural Mechanisation and Automation (AGROMAC)*
- *Centre for Agricultural Entrepreneur Development (AGROPAC)*
- *Centre of Foundation Studies for Agriculture Science*

Institute of Tropical Biocomposite (INTROB)

INTROB was established to become the national (RIDC) Reference Centre for producing tropical fibre and as a stimulator for commercial exploitation of biocomposite and its related products. The institute was expected to offer the latest RIDC services and to develop, increase and enhance the nation's competitiveness in biocomposite and its related industries.

Institute of Agricultural and Food Policy Studies (IKDPM)

The primary objective of IKDPM was to analyse the effects of national and international policy changes on agriculture and food sectors. Hence, IKDPM performed two important functions, namely research and professional services.

Institute of Plantation Studies (IKP)

IKP was established to assist the national plantation industry through strategic research and professional services in niche areas.

Institute of Halal Food (IMH)

IMH was established to conduct research and development in halal food to enable



Malaysia to be the global halal food hub. It will operate as a one-stop centre for reference, discussion, training and professional services employing various integrated approaches in enhancing the international halal food industry.

The number of key activities planned was to assist the government in conducting research to develop management techniques, policies, laws, marketing and trade strategies for local and international halal food.

Institut Pengembangan Pertanian (IPP)

Peranan IPP adalah sebagai agen pengembangan utama dalam memberi perkhidmatan kepada masyarakat tani dan membantu meningkatkan keberkesanan proses pemindahan teknologi untuk menjadikan sektor pertanian di kalangan masyarakat luar bandar satu aktiviti komersil.



Pusat Asasi Sains Pertanian (PASP)

PASP ditubuhkan untuk menyediakan pelajar yang mempunyai asas dan minat mendalam dalam bidang pertanian, dan seterusnya berkecenderungan tinggi untuk meneruskan pengajian dalam bidang yang sama di peringkat ijazah.

Pusat Kajian Strategik dan Inovasi Makanan (PKSIM)

PKSIM ditubuhkan dengan objektif untuk menjadi pusat rujukan dan perkhidmatan makanan dalam bidang sains dan teknologi

makanan yang ditumpukan kepada kualiti makanan dan teknologi inovatif bagi industri pengeluaran makanan tempatan. Matlamat PKSIM adalah untuk menyumbang kepada institusi kerajaan dan swasta dengan menangani isu dan keperluan semasa dalam bidang sains dan teknologi makanan.

Pusat Mekanisasi dan Pengautomatan Pertanian dan Makanan (AGROMAC)

Matlamat utama penubuhan AGROMAC adalah untuk menjadi sebuah pusat yang dapat menyumbang ke arah peningkatan produktiviti pertanian negara. Usaha yang dijalankan adalah menerusi penggunaan teknologi terkini, pengurusan jentera yang berkesan serta peningkatan produktiviti tenaga buruh agar ianya sentiasa kompetitif dan kekal sebagai salah satu penyumbang utama ekonomi negara.

Pusat Pembangunan Usahawan Tani (AgroPAC)

AgroPAC ditubuhkan untuk membantu membangunkan usahawan dalam sektor pertanian dan industri asas tani yang mempunyai ciri-ciri inovatif, dinamik, bergerak ke hadapan, merintis usaha untuk menjadi petani moden, berdaya saing, bijak meneroka peluang dan potensi baharu serta gagah menghadapi cabaran. AgroPAC berusaha untuk mencapai objektif melahirkan usahawan tani dalam pelbagai bidang pertanian, mengadakan pakatan strategik dengan sektor awam dan swasta bagi melahirkan usahawan tani, menjadi penghubung untuk penempatan peserta program di institusi luar negara untuk mendapatkan latihan usahawan tani dan menjadi pusat rujukan sehenti

Institute for Agricultural Extension (IPP)

IPP served as an agent to provide services to the farming community and to assist in increasing the effectiveness of technology transfer process to rural areas in an attempt to transform the rural agriculture practice into a profitable commercial activity.

Centre of Foundation Studies for Agricultural Science (PASP)

PASP was established to mould students who had the basics and strong interest in the agricultural domain and were highly inclined in pursuing their studies of the field at the degree level.

Centre for Strategic Studies and Food Innovation (PKSIM)

PKSIM was established with the objective of becoming the centre for reference and services in the field of science and food technology. Its main focus was in the quality of food and innovative technology for the local food production industry. Ultimately, the aim of PKSIM was to contribute towards government and private institutes by resolving current issues and needs in the field of Food Science and Technology.

Centre for Food and Agricultural Mechanisation and Automation (AGROMAC)

The main objective in establishing AGROMAC was the creation of a centre that contributed towards the enhancement of national agricultural production. This was achieved through the utilisation of latest technology, the effective

management of machinery and the increase in labour productivity to ensure its continuous competitiveness and to remain as one of the main contributors to the country's economy.

Centre for Agricultural Entrepreneur Development (AGROPAC)

AGROPAC was established to provide assistance in developing entrepreneurs in the agricultural sector and agricultural-based industries who were with innovative



characteristics, dynamic, proactive, ardent in becoming modern farmers, competitive, fervent in seeking out new opportunities and potentials as well as dauntless in facing challenges. AGROPAC strived to produce entrepreneurs in a variety of agriculture fields, form strategic partnership with the private and public sectors, place participants in programmes conducted by foreign institutions and become a one-stop referral centre for the development of agricultural entrepreneurs.

berhubung dengan pembangunan usahawan tani.

Program Pengajian Prasiswazah

Fakulti Pertanian

- Bacelor Sains Pertanian
- Bacelor Sains Hortikultur
- Bacelor Sains (Perniagaantani)

Fakulti Perhutanan

- Bacelor Sains Perhutanan

Fakulti Perubatan Veterinar

- Doktor Perubatan Veterinar

Fakulti Ekonomi dan Pengurusan

- Bacelor Ekonomi
- Bacelor Perakaunan
- Bacelor Pentadbiran Perniagaan

Fakulti Kejuruteraan

- Bacelor Kejuruteraan (Awam)
- Bacelor Kejuruteraan (Elektrik dan Elektronik)
- Bacelor Kejuruteraan (Kimia)
- Bacelor Kejuruteraan (Pertanian dan

Biosistem)

- Bacelor Kejuruteraan (Mekanikal)
- Bacelor Kejuruteraan (Proses dan Makanan)
- Bacelor Kejuruteraan (Sistem Komputer dan Komunikasi)

Fakulti Pengajian Pendidikan

- Bacelor Pendidikan (Pendidikan Jasmani)
- Bacelor Pendidikan (Bimbingan dan Kaunseling)
- Bacelor Pendidikan (Pengajaran Bahasa Malaysia Sebagai Bahasa Pertama)
- Bacelor Pendidikan (Pengajaran Bahasa Inggeris Sebagai Bahasa Kedua)
- Bacelor Pendidikan (Sains Rumah tangga)
- Bacelor Pendidikan (Sains Pertanian)
- Bacelor Pendidikan (Teknologi Maklumat)
- Bacelor Pendidikan (Pendidikan Moral)
- Bacelor Sains (Pembangunan Sumber Manusia)
- Diploma Kejurulatihan Sukan

Fakulti Sains

- Bacelor Sains (Kepujian)
 - Major Biologi
 - Major Matematik
 - Major Statistik
 - Major Fizik
 - Major Kimia
 - Major Kimia Perindustrian
 - Major Kimia Petroleum
 - Major Sains Bahan
 - Major Sains Instrumentasi



Undergraduate Programme

Faculty of Agriculture

- Bachelor of Agricultural Science
- Bachelor of Horticultural Science
- Bachelor of Science (Agribusiness)

Faculty of Forestry

- Bachelor of Forestry Science

Faculty of Veterinary Medicine

- Doctor of Veterinary Medicine

Faculty of Economics and Management

- Bachelor of Economics
- Bachelor of Accountancy
- Bachelor of Business Administration

Faculty of Engineering

- Bachelor of Engineering (Civil)
- Bachelor of Engineering (Electrical and Electronics)
- Bachelor of Engineering (Chemical)
- Bachelor of Engineering (Agricultural and Biosystem)
- Bachelor of Engineering (Mechanical)
- Bachelor of Engineering (Process and Food)
- Bachelor of Engineering (Computer System and Communication)

Faculty of Educational Studies

- Bachelor of Education (Physical Education)
- Bachelor of Education (Guidance and Counseling)
- Bachelor of Education (Teaching of Bahasa Malaysia as a First Language)
- Bachelor of Education (Teaching of English as a Second Language)
- Bachelor of Education (Home Science)
- Bachelor of Education (Agricultural Science)
- Bachelor of Education (Information Technology)



- Bachelor of Education (Moral Education)
- Bachelor of Science (Human Resource Development)
- Diploma in Sports Coaching

Faculty of Science

- Bachelor of Science (Honours) - major in
 - Biology
 - Mathematics
 - Statistics
 - Physics
 - Chemistry
 - Industrial Chemistry
 - Petroleum Chemistry
 - Material Science
 - Instrumentation Science
- Bachelor of Science with Education (Honours) - major in
 - Biology
 - Mathematics
 - Physics
 - Chemistry



- Bacelor Sains dengan Pendidikan (Kepujian)
 - Major Biologi
 - Major Fizik
 - Major Kimia
 - Major Matematik

Fakulti Sains dan Teknologi Makanan

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

Fakulti Ekologi Manusia

- Bacelor Muzik (Persembahan Muzik)
- Bacelor Sains (Pembangunan Manusia)
- Bacelor Sains (Pembangunan Manusia dan Pengurusan)
- Bacelor Sains (Pembangunan Manusia dan Teknologi Maklumat)
- Bacelor Pengajian Pengguna

Fakulti Bahasa Moden dan Komunikasi

- Bacelor Sastera
 - Bahasa Inggeris
 - Bahasa & Linguistik Melayu
 - Kesusasteraan Melayu
 - Kesusasteraan Inggeris
 - Pengkhususan Bahasa Asing

- Bahasa Mandarin
- Bahasa Arab
- Bahasa Perancis
- Bahasa Jerman
- Bacelor Komunikasi

Fakulti Rekabentuk dan Senibina

- Bacelor Seni Bina
- Bacelor Seni Bina Landskap
- Bacelor Reka Bentuk (Senibina)
- Bacelor Reka Bentuk (Reka Bentuk Perindustrian)

Fakulti Perubatan dan Sains Kesihatan

- Doktor Perubatan
- Bacelor Sains (Sains Bioperubatan)
- Bacelor Sains (Dietetik)
- Bacelor Sains (Pemakanan dan Kesihatan Komuniti)
- Bacelor Sains (Kesihatan Persekitaran & Pekerjaan)
- Bacelor Kejururawatan

Fakulti Sains Komputer dan Teknologi Maklumat

- Bacelor Sains Komputer
 - Pengkhususan Sistem Komputer
 - Pengkhususan Multimedia
 - Pengkhususan Kejuruteraan Perisian
 - Pengkhususan Rangkaian Komputer

Fakulti Bioteknologi dan Sains Biomolekul

- Bacelor Sains (Bioteknologi)
- Bacelor Sains (Kepujian)
- Major Biokimia
- Major Mikrobiologi

Fakulti Pengajian Alam Sekitar

- Bacelor Sains (Alam Sekitar)

Fakulti Sains Pertanian Dan Makanan (Kampus Bintulu)

- Bacelor Sains Bioindustri
- Diploma Pertanian

Faculty of Food Science and Technology

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

Faculty of Human Ecology

- Bachelor of Music (Music Performance)
- Bachelor of Science (Human Development)
- Bachelor of Science (Human Development and Management)
- Bachelor of Science (Human Development and Information Technology)
- Bachelor of Consumer Studies

Faculty of Modern Language and Communication

- Bachelor of Arts - major in
 - English Language
 - Malay Language and Linguistics
 - Malay Literature
 - English Literature
 - Major in Foreign Language
 - Mandarin
 - Arabic
 - French
 - German
- Bachelor of Communication

Faculty of Design and Architecture

- Bachelor of Architecture
- Bachelor of Landscape Architecture
- Bachelor of Design (Architecture)
- Bachelor of Design (Industrial Design)



Faculty of Medicine and Health Science

- Doctor of Medicine
- Bachelor of Science (Biomedical science)
- Bachelor of Science (Dietics)
- Bachelor of Science (Nutrition and Community Health)
- Bachelor of Science (Environmental and Occupational Health)
- Bachelor of Nursing

Faculty of Computer Science and Information Technology

- Bachelor of Computer Science - major in
 - Computer Systems
 - Multimedia
 - Software Engineering
 - Computer Network

- Diploma Pertanian
- Diploma Perikanan
- Diploma Kesihatan Haiwan dan Peternakan
- Diploma Pengurusan Perladangan dan Makanan

Program Pengajian Pascasiswazah

Sekolah Pengajian Siswazah (SPS)

- Doktor Falsafah (Ph.D.)
- Master Sains Pertanian (M.Agric.Sc.)
- Master Sastera (M.A.)



- Master Ekonomi (M.Econ.)
- Master Alam Sekitar (M.Env.)
- Master Senibina Landskap (M.L.A.)
- Master Pengurusan (M.M.)
- Master Sains (M.S.)
- Master Sains Veterinar (M.V.Sc.)
- Master Perubatan Veterinar (M.V.M.)
- Diploma Lulusan Ijazah Perubatan Reproduksi

Sekolah Pengajian Siswazah Pengurusan (GSM)

- Doktor Falsafah (Ph.D.)
- Master Pentadbiran Perniagaan (M.B.A)
- Master Pengurusan (M.M.)
- Master Sains (M.Sc.)

Pendidikan Jarak Jauh dan Kerjasama IPTS

UPM turut menawarkan program pendidikan jarak jauh (PJJ) di peringkat Bachelor dan Master. Program ini dikelola oleh Pusat Pendidikan Luar (PPL). Program ini mendapat tempat di kalangan individu berkerjaya yang ingin mempertingkatkan kelulusan akademik masing-masing.

Sehingga 2005, PPL menawarkan program berikut:

Bachelor Komunikasi

- Bachelor Sains (Pembangunan Manusia)
- Bachelor Sains (Pembangunan Sumber Manusia)
- Bachelor Sains Komputer
- Bachelor Pentadbiran Perniagaan
- Bachelor Pendidikan:
 - Pengajaran Bahasa Inggeris sebagai Bahasa Kedua
 - Bimbingan dan Kaunseling

Bachelor Sastera:

- Bahasa dan Linguistik Melayu
- Bahasa Inggeris

Master Sains (Pembangunan Sumber Manusia)

- Master Sains (Komunikasi Korporat)
- Master Sains (PBMP)
- Master Sastera (BM)
- Master Sains (Pengurusan Sumber Lestari)

Faculty of Biotechnology and Biomolecular Sciences

- Bachelor of Science (Biotechnology)
- Bachelor of Science (Honours) - major in
 - Biochemistry
 - Microbiology

Faculty of Environmental Studies

- Bachelor of Science (Environment)

Faculty of Agriculture and Food Science (Bintulu Campus)

- Bachelor of Science Bioindustry
- Diploma in Agriculture
- Diploma in Fisheries
- Diploma in Animal Health and Animal Breeding
- Diploma in Plantation and Food Management

Postgraduate Programme

School of Graduate Studies (SGS)

- Doctor of Philosophy (Ph.D.)
- Master of Agricultural Science (M.Agric.Sc.)
- Master of Arts (M.A.)
- Master of Economics (M.Econ.)
- Master of Environmental Studies (M.Env.)
- Master of Landscape Design (M.L.A.)
- Master of Management (M.M.)
- Master of Science (M.Sc.)
- Master of Veterinary Science (M.V.Sc.)
- Master of Veterinary Medicine (M.V.M.)
- Postgraduate Diploma in Reproductive Medicine

Graduate School of Management (GSM)

- Doctor of Philosophy (Ph.D.)
- Master of Business Administration (M.B.A.)
- Master of Management (M.M.)
- Master of Science (M.Sc.)



Distance Learning Programme and IPTS Collaboration

UPM also offered distance learning programmes at Bachelor's and Masters levels. These programmes were administered by the Centre for External Programme (PPL) and were suited for working individuals who wished to upgrade their academic qualification.



Satu lagi pendekatan yang diperkenalkan untuk memberi peluang kepada masyarakat melanjutkan pengajian di 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 meliputi program di peringkat diploma dan bachelors.

Program Kerjasama

- Bachelors Sastera (Bahasa Melayu)
- Bachelors Sastera (Bahasa Inggeris)
- Bachelors Sains Komputer
- Bachelors Pentadbiran Perniagaan
- Bachelors Kejuruteraan Mekanikal
- Bachelors Kejuruteraan Elektrik dan Elektronik
- Bachelors Kejuruteraan Awam
- Bachelors Kejuruteraan Sistem Komputer dan Komunikasi
- Bachelors Kejuruteraan Kimia

- Diploma Sains Komputer
- Diploma Pembangunan Manusia
- Diploma Pengurusan Perniagaan
- Diploma Pertanian
- Diploma Perhutanan
- Diploma Kejuruteraan Mekanikal
- Diploma Kejuruteraan Elektronik
- Diploma Kejuruteraan Teknologi Multimedia
- Diploma Kejuruteraan Awam

Senarai IPTS Yang Bekerjasama dengan UPM

- Institut Teknologi A.N.S.
- Kolej Informasi Teknologi Cosmopect
- Institut Pembangunan Sumber Manusia (Kolej Kamunting)
- Kolej Teknologi Ikram
- Kolej Teknologi Timur
- Kolej SAL
- Kolej Poly-Tech MARA (KPTM)
- Kolej Teknologi Cybernetics
- Kolej Karisma
- Kolej Negeri
- Kolej UNITI
- Kolej RISDA
- Institut Kota Melaka
- Kolej INSTEDT
- Kolej Islam Yayasan Pelajaran Johor
- Pusat Pembangunan Kemahiran Pahang (PSDC)
- Institut Informasi Multimedia
- Kolej SHAHPUTRA
- Kolej Teknologi BESTARI (KTB)
- Kolej Chermaj Jaya (KCJ)
- Institut Teknologi SARA

Program Baharu

Tiga program pengajian baharu telah diluluskan oleh Kementerian Pengajian Tinggi Malaysia untuk ditawarkan mulai tahun 2005. Program tersebut adalah seperti berikut:

In 2005, PPL offered the following programmes:

- Bachelor of Communication
- Bachelor of Science (Human Development)
- Bachelor of Science (Human Resource Development)
- Bachelor of Computer Science
- Bachelor of Business Administration
- Bachelor of Education:
 - Teaching of English as a Second Language
 - Guidance and Counseling
- Bachelor of Arts:
 - Malay Language and Linguistics
 - English Language
- Master of Science (Human Resource Development)
- Master of Science (Corporate Communication)
- Master of Science (Teaching of Bahasa Malaysia as a First Language)
- Master of Arts (Malay Language)
- Master of Science (Sustainable Resource Management)

The collaborative programmes between UPM and the private higher learning institutions (IPTS) provided another avenue for the general public to pursue higher education. This approach provided a flexible higher education opportunity to the public while enabling complete control of the quality of an IPTS. Various programmes at diploma and bachelor's levels were offered through this collaboration.



Collaborative Programmes

- Bachelor of Arts (Malay Language)
- Bachelor of Arts (English Language)
- Bachelor of Computer Science
- Bachelor of Business Administration
- Bachelor of Mechanical Engineering
- Bachelor of Electrical and Electronic Engineering
- Bachelor of Civil Engineering
- Bachelor of Computer System and Communication Engineering
- Bachelor of Chemical Engineering
- Diploma in Computer Science
- Diploma in Human Development
- Diploma in Business Management
- Diploma in Agriculture
- Diploma in Forestry
- Diploma in Chemical Engineering
- Diploma in Electronic Engineering
- Diploma in Multimedia Technology
- Diploma in Civil Engineering

- Bacelor Pendidikan (Pendidikan Moral)
- Diploma Kejurulatihan Sukan
- Asasi Sains Pertanian

Program Eksekutif

Terdapat dua buah fakulti yang menawarkan program eksekutif:

Fakulti Ekonomi dan Pengurusan

- Bacelor Ekonomi
- Bacelor Pentadbiran Perniagaan
- Bacelor Perakaunan

Fakulti Bahasa Moden dan Komunikasi

- Bacelor Sastera (Bahasa dan Linguistik Melayu)
- Bacelor Sastera (Bahasa Inggeris)
- Bacelor Sastera (Bahasa Asing)
- Bacelor Komunikasi

Perpustakaan Sultan Abdul Samad (PSAS)

Selaras dengan perkembangan teknologi maklumat dan komunikasi (ICT), PSAS terus berusaha untuk memastikan sistem pengurusan bahan dan perkhidmatannya



berkembang selaras perkembangan berkaitan. Ini dibuat untuk membolehkan warga UPM menggunakan teknologi terkini bagi memenuhi keperluan maklumat dalam pengajaran dan pembelajaran (P&P), penyelidikan, pengembangan dan khidmat profesional.

Koleksi

Koleksi PSAS terus berkembang dengan penambahan bahan baharu untuk menyokong program yang sedia ada dan juga program baharu. Sehingga akhir 2005, jumlah keseluruhan koleksi Perpustakaan UPM, termasuk koleksi di Perpustakaan Fakulti Perubatan dan Sains Kesihatan, dan Perpustakaan Fakulti Perubatan Veterinar ialah sebanyak 497,666 naskhah. Jumlah ini meliputi semua koleksi buku dan jurnal berjilid dan bahan pandang dengar. Untuk koleksi jurnal, Perpustakaan sentiasa berusaha untuk meningkatkan langganan kepada pangkalan data dalam talian untuk memudahkan pengguna mengakses jurnal elektronik yang mereka minati. Perolehan jurnal bercetak masih diteruskan dan sehingga Disember 2005 terdapat sebanyak 5832 judul jurnal bercetak dalam koleksi.

Keahlian

Keahlian perpustakaan meningkat setiap tahun dengan bertambahnya pengambilan pelajar. Sehingga Disember 2005, jumlah ahli bagi semua kategori ialah 49,922.

Perkhidmatan Pinjaman

Sepanjang tempoh Januari-Disember 2005 sebanyak 548,105 transaksi peminjaman / pemulangan bahan-bahan Perpustakaan, terdiri dari buku dan bahan media telah

List of Collaborating IPTS

- A.N.S. Institute of Technology
- Cosmopect College of Information Technology
- Institute of Human Resource Development (Kamunting College)
- Ikram College of Technology
- Timur College of Technology
- SAL College
- Polt-Tech MARA College (KPTM)
- Cybernetics College of Technology
- Karisma College
- Negeri College
- UNITI College
- RISDA College
- Kota Melaka Institute
- INSTEDT College
- Johore Islamic Students Foundation College
- Pahang Skills Development Corporation (PSDC)
- Multimedia Information Institute
- Shahputra College
- Bestari College of Technology (KTB)
- Chermai Jaya College (KCJ)
- SARA Institute of Technology

New Programmes

Three new programmes had been approved by the Ministry of Higher Education for 2005. The programmes offered were:

- Bachelor of Education (Moral Education)
- Diploma in Sports Coaching
- Foundation Agricultural Science

Executive Programmes

Two faculties which offered executive programmes were:

Faculty of Economics and Management

- Bachelor of Economics
- Bachelor of Business Administration
- Bachelor of Accounting

Faculty of Modern Languages and Communication

- Bachelor of Arts (Malay Language and Linguistics)
- Bachelor of Arts (English Language)
- Bachelor of Arts (Foreign Languages)
- Bachelor of Communication

Sultan Abdul Samad Library (SASL)

In line with the rapid advancement of information and communication technology (ICT), UPM's Sultan Abdul Samad Library continually endeavoured to ensure that its resource management system and services expanded accordingly. Inevitably, this will enable the staff of UPM to utilise the latest technology in obtaining the information need for their teaching and learning, research, development and professional services.



dibuat melalui kaunter-kaunter pinjaman, termasuk perpustakaan cawangan fakulti.

Perkhidmatan Pembekalan Dokumen

Sehingga akhir Disember 2005, sebanyak 749 permohonan untuk mendapatkan bahan dari perpustakaan lain telah diterima daripada pelajar dan staf UPM, dan sebanyak 691 telah dapat diproses, iaitu 92.25%. Dalam tempoh yang sama, 1287 permohonan telah diterima daripada



perpustakaan luar untuk mendapatkan bahan daripada koleksi perpustakaan, jika ada. Daripada jumlah ini sebanyak 1261 telah dapat diproses, iaitu 97.97%.

Penggunaan Perpustakaan

Mengikut rekod bacaan meter di pintu keluar Perpustakaan, dalam tempoh Januari hingga Disember 2005, seramai 607,847 pengguna telah datang ke Perpustakaan.

Pangkalan Data Dalam Talian

Perkembangan ICT terkini telah membolehkan pengguna mengakses maklumat dalam jurnal dan lain-lain sumber maklumat dalam talian melalui internet. Sehubungan itu, Perpustakaan melanggan beberapa pangkalan data untuk membolehkan warga UPM mengakses seluas mungkin sumber maklumat. Sehingga Disember 2005, Perpustakaan telah melanggan lebih kurang 30 pangkalan data dalam talian, antaranya:-

Academic Search Premier, ACM Digital Library, ACS (American Chemical Society) Publications, ASME (American Society of Mechanical Engineers) Publications, BioOne Fulltext, Blackwell Synergy, Business Source Premier, CAB Abstracts, CABI Primary Journals, CINAHL, CSA Illumina, Computer Database, ERIC, Emerald Fulltext, Euromonitor, Family and Society Studies Worldwide, Institute of Physics Electronic Journals, IEEE Xplore, Kluwer Online Journals, LawNet (Online Library of Malaysian Laws), Lecture Notes in Computer Science, MLA (Modern Language Associations), OVID Online, ProQuest ABI/INFORM, ProQuest Agricultural Journals, ProQuest Digital Dissertations, ProQuest Education Complete, Proquest Medical Library, PsycArticles, Science Direct, SpringerLink, and World Scientific Computer E Journal.

Keseluruhan pangkalan data ini membolehkan pengguna mengakses lebih 16,500 jurnal antarabangsa, sama ada untuk mendapat maklumat mengenai judul, pengarang dan abstraks atau pun teks artikel itu sepenuhnya. Selain itu, warga UPM terus boleh mengakses pangkalan data dalam negara seperti

Collection

The library's collection has continued to grow with the addition of new materials to support both existing and new programmes. In 2005, the total number of UPM Library's collection including the Faculty of Medicine and Health Sciences Library as well as the Faculty of Veterinary Medicine Library stood at 497,666 copies. This total covered the entire collection of books, complete volumes of journals and audio visual aids. For its journal collection, the Library ceaselessly endeavoured to increase its e-journal subscriptions to facilitate users convenience in accessing their preferred journals. Journals were continuously being subscribed and in December 2005, there was a collection of 5832 topics of printed journals.

Membership

The Library's membership increased every year with new student intake. In 2005, there were 49,922 members from all categories.

Borrowing Services

Throughout 2005, a total of 548,105 transactions of Library materials, including books and media aids, had taken place through the borrowing counters in the main and faculty libraries.

Document Supplying Service

Until December 2005, a total of 749 applications for acquiring materials from other libraries had been received from the students and staff of UPM. A total of 691 (92.25%) requests had been processed. In the same period, 1287 applications for

acquiring materials from the Library's collection had been received from external libraries. A total of 1261 requests (97.97%) had been processed.

Library Usage



A reading of the meter at the exit of the library indicated a total of 607,847 users had visited the library from January to December 2005.

Online Database

The latest developments in ICT have enabled users to access information/contents of journals and other sources of information online via internet. In relation to this, the Library had subscribed to various databases to enable UPM users to access a wide sources of information. Until December, the Library had successfully subscribed 30 online databases. They were:-



MASTIC Link, NSTP E-media, PALMOILIS dan SIRIMLINK.

Pangkalan Data CD-ROM

Perpustakaan kini mempunyai 27 judul pangkalan data CD-ROM dalam berbagai bidang pengajaran dan penyelidikan, termasuk pangkalan data yang dihasilkan oleh Commonwealth Agricultural Bureau International (CABI) dan Institute for Science Information (ISI). Pangkalan-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 Orientasi Perpustakaan untuk pelajar baharu telah diadakan bagi pelajar peringkat Ijazah dan Diploma bagi sesi Mei dan November.

Selain program untuk pelajar baharu, Perpustakaan juga telah mengendalikan kelas Pendidikan Pengguna yang diadakan secara berjadual atau atas permintaan fakulti, selalunya untuk pelajar tahun akhir. Sepanjang tahun 2005 sebanyak 135 kelas Program Pendidikan Pengguna telah dikendalikan dengan mencatatkan bilangan kehadiran 4710 orang.

Pameran

Selain dari pameran buku baharu yang diadakan sepanjang tahun, pameran mengenai topik tertentu juga diadakan. Pameran yang telah diadakan sepanjang tahun 2005 adalah seperti berikut:



Academic Search Premier, ACM Digital Library, ACS (American Chemical Society) Publications, ASME (American Society of Mechanical Engineers) Publications, BioOne Fulltext, Blackwell Synergy, Business Source Premier, CAB Abstracts, CABI Primary Journals, CINAHL, CSA Illumina, Computer Database, ERIC, Emerald Fulltext, Euromonitor, Family and Society Studies Worldwide, Institute of Physics Electronic Journals, IEEE Xplore, Kluwer Online Journals, Lawnet (Online Library of Malaysian Laws), Lecture Notes in Computer Science, MLA (Modern Language Associations), OVID Online, ProQuest ABI/INFORM, ProQuest Agricultural Journals, ProQuest Digital Dissertations, ProQuest Education Complete, ProQuest Medical Library, PsycArticles, Science Direct, SpringerLink, and World Scientific Computer E Journal.

The entire database enabled users to access more than 16,500 international

journals either to get information about titles, authors and abstracts or to obtain information on the whole articles. Furthermore, they could also access the local database like MASTIC Link, NSTP E-media, PALMOILIS and SIRIMLINK.

CD-ROM Database

Currently, the library has 27 titles of CD-ROM database in various fields of teaching and research, including the databases produced by the Commonwealth Agriculture Bureau International (CABI) and the Institute for Science Information (ISI). The databases are:

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 Orientation Programme for new degree and diploma students for the May and November sessions had been conducted. Besides this programme, the Library organised user education classes periodically or upon request from the faculties, usually for final year students. Throughout 2005, a total of 135 user education classes were held and 4710 students attended these classes.



BULAN	TAJUK PAMERAN SEMASA	TAJUK PAMERAN BUKU
Jan - Feb	Research & Development In Malaysia	Research And Development Managemant
April - Mei	-	Environmental Biotechnology
Julai	Rajin Membaca Pasti Berjaya	Motivation In Education
Ogos - Sept	Tun Dr Mahathir Mohamed	Malaysian Economic Development
Sept - Okt	Raja Berdaulat, Negeri Beradat	Meteorology
Okt - Nov	To Know Asean Is To Love Asean	Asean: Challenges And Prospects For Cooperative
Disember	-	Cancer

Exhibition

Apart from book exhibitions which were held throughout the year, exhibitions on specific topics were held in 2005 which were as follows:

MONTH	CURRENT EXHIBITIONS	BOOK EXHIBITIONS
Jan - Feb	Research & Development in Malaysia	Research and Development Management
April - May	-	Environmental Biotechnology
July	Deligent Reading Bring Success	Motivation in Education
August -Sept	Tun Dr.Mahathir Mohamed	Malaysian Economic Development
Sept-Oct	Raja Berdaulat, Negeri Beradat	Meteorology
Oct-Nov	To Know Asean is to Love Asean	Asean: Challenges and Prospects for Cooperative
December	-	Cancer

Kecemerlangan Penyelidikan

Excellence in Research





“Sepanjang Tahun 2005, Pencapaian UPM Dalam Bidang Penyelidikan, Pembangunan Dan Pengkomersialan Adalah Amat Membanggakan Selaras Dengan Aspirasi Untuk Menjadi Universiti Penyelidikan Terkemuka Dunia.”

Sepanjang tahun 2005, pencapaian UPM dalam bidang penyelidikan, pembangunan dan pengkomersilan adalah amat membanggakan selaras dengan aspirasi untuk menjadi Universiti Penyelidikan terkemuka dunia.

Di UPM segala urusan penyelidikan dilaksanakan oleh Pusat Pengurusan Penyelidikan (RMC).

Berikut adalah senarai geran penyelidikan yang berjaya diperolehi oleh penyelidik UPM pada tahun 2005:

Jumlah Geran Penyelidikan Tahun 2005

GERAN	BIL. PROJEK	PERUNTUKAN
IRPA	6	838,976
NBD (Topdown)	1	200,000
Scientific Advancement Fund Allocation (SAGA)	6	1,226,240
Skim Penyelidikan Pensyarah Lantikan Baru	27	200,000
JUMLAH	40	2,465,216

Penerbitan

Jumlah keseluruhan penerbitan penyelidik UPM bagi tahun 2005 adalah sebanyak 2,093. Maklumat lengkap dapat dirujuk pada jadual berikut:

TABURAN PENERBITAN	
1. Penerbitan dalam ' <i>citation indexed</i> ' jurnal termasuk prosiding yang berwasit	238
2. Faktor impak terkumpul (cummulative impact factor)	(346.61)
3. Penerbitan dalam jurnal 'non-citation-indexed'	463
4. Penerbitan buku	104
5. Bab dalam buku	87
6. Penerbitan lain yang telah memberi impak kepada polisi/sosial/kerajaan	1201
JUMLAH PENERBITAN	2093

In 2005, UPM's achievement in the field of research, development and commercialisation was highly impressive and reflective of its aspiration to become a world renowned research university. In UPM, each element pertaining to research was managed by the Research Management Centre.

The following was the list of research grants received by UPM researchers in 2005:

Research Grant Received In 2005

GRANT	NO. OF PROJECTS	ALLOCATION (RM)
IRPA	6	838,976
NBD (Topdown)	1	200,000
Scientific Advancement Fund Allocation (SAGA)	6	1,226,240
New lecturer grant scheme	27	200,000
TOTAL	40	2,465,216

Publication

The total number of research publication by UPM in 2005 was 2,093. The publications included:

PUBLICATION	
1. Publication in citation indexed journal including peer-reviewed proceedings	238
2. Cumulative impact factor	(346.61)
3. Publication in non-citation-indexed journal	463
4. Book	104
5. Chapters in books	87
6. Publications that created an impact on policies/social/government	1201
TOTAL NUMBER OF PUBLICATION	2093

Aktiviti Pengurusan Penyelidikan

Taklimat IRPA RMK-9 Dan Sesi Dialog Bersama TNC (A) telah diadakan pada 31 Mac 2005 bertempat di Dewan Syarahan, Fakulti Perubatan Veterinar, UPM. Ia bertujuan untuk memberi pendedahan awal kepada penyelidik UPM khususnya pensyarah muda berkaitan perancangan kerajaan dalam bidang penyelidikan bagi Rancangan Malaysia Ke-9. Selain itu, sesi ini dianjurkan sebagai media perbincangan dalam menentukan hala tuju penyelidikan UPM bagi RMK-9. Secara amnya, sesi dialog ini telah mendapat sambutan yang amat menggalakkan daripada para penyelidik. Sekurang-kurangnya 10 orang penyelidik hadir mewakili setiap fakulti.

Majlis Meraikan Kejayaan Delegasi UPM ke Geneva 2005 telah dianjurkan pada 26 April 2005, bagi meraikan kejayaan penyelidik UPM yang menyertai Pameran Penyelidikan dan Rekacipta di Geneva-Palexpo pada 6-10 April 2005. Majlis yang berlangsung di Dewan Taklimat, Bangunan Pentadbiran ini telah disempurnakan oleh Naib Canselor UPM, Prof. Dato' Dr. Ir. Mohd. Zohadie Bardaie. Bagi penyertaan tahun ini, UPM telah berjaya merangkul 13 pingat (5 emas, 5 perak dan 3 gangsa)



daripada 13 penyertaan. Semoga kemenangan ini akan membakar semangat penyelidik-penyelidik lain untuk terus mengharumkan nama UPM di persada antarabangsa.

Road Show Penulisan Saintifik- Adalah menjadi hasrat UPM untuk mencapai status Research University (RU) yang terkemuka di rantau Asia, dengan memberi tumpuan utama kepada penyelidikan bidang-bidang terpilih dan mempunyai *critical mass*. Salah satu kriteria untuk mencapai status RU ialah penghasilan penerbitan akademik dalam jurnal antarabangsa yang mempunyai impak yang tinggi. Berdasarkan pencapaian UPM setakat ini, RMC adalah dirasakan perlu untuk mengambil inisiatif bagi merangka strategi yang dapat memantapkan kuantiti dan kualiti penerbitan akademik.

Sehubungan itu, pada 14 April 2004, atas cadangan RMC, Pihak Pengurusan Universiti telah bersetuju melantik seorang konsultan bagi membantu penyelidik dalam Penulisan Saintifik. Prof. Emeritus Dr. Mohd. Razeen Jainudeen, telah dilantik sebagai konsultan penulisan saintifik pertama UPM. Sebagai pendedahan awal teknik penulisan dikalangan pensyarah UPM, sesi Road Show Penulisan Saintifik telah dijalankan secara bergilir di setiap fakulti bermula 1 September 2005 hingga 3 Oktober 2005.

Polisi Penyelidikan- Sebagai panduan ke arah pemantapan penyelidikan, UPM telah memilih untuk merangka Polisi Penyelidikan sebagai satu langkah ke arah pemantapan aktiviti penyelidikan di UPM. Jawatankuasa Ad-Hoc Mendraf Polisi Penyelidikan telah dibentuk pada 20 Disember 2005 terdiri daripada Pegawai

Research Management Activities

The Ninth Malaysian Plan IRPA Briefing and Dialogue Session with the Deputy Vice Chancellor (Academic) was held on 31 March 2005 at the Lecture Hall, Faculty of Veterinary Medicine, UPM. It aimed at providing an early briefing to researchers particularly new UPM lecturers on the Government's aspirations for the Ninth Malaysia Plan research programmes. Furthermore, this session served as a platform to discuss UPM's research direction in the Ninth Malaysia Plan. Indeed, this dialogue session received very encouraging affirmation and support from the researchers. A total of ten researchers attended as representatives from each faculty.

A celebration to honour the success of UPM's Delegation to Geneva 2005 was organised on 26 April 2005. The delegation participated in the Research and Innovation Exhibition held in Geneva-Palexpo from 6 to 10 April 2005. The Vice Chancellor of UPM, Prof. Dato' Dr. Ir. Mohd. Zohadie Bardaie graced the ceremony held at the Briefing Hall, Administrative Building. UPM won all the 13 medals (5 gold, 5 silver and 3 bronze) from the 13 products submitted at the exhibition. It was hoped that this victory would propel other researchers towards excellence and thus progressively carve a name for UPM in the international sphere.

Scientific Writing Road Show: It is UPM's aspiration to be the leading Research University (RU) in the Asian region by focussing primarily on selected domains of research which have the



critical mass. One of the criteria to achieve RU status is through the publications of academic materials in international journals that have very high impact. Based on the current UPM's achievement, there is a strong need for RMC to develop strategies in enhancing both the quantity and the quality of academic publications. Hence, on the 14 April 2004, upon the proposal from RMC, the University's management agreed to appoint a consultant to assist researchers with Scientific Writing. Thus, Prof. Emeritus Dr. Mohd Razeen Jainudeen was elected the first scientific writing consultant. In the effort to provide initial exposure on effective writing techniques to UPM lecturers, a Scientific Writing Road Show was organised for every faculty from 1 September 2005 to 3 October 2005.

Perundangan dan penyelidik berpengalaman mewakili bidang masing-masing. Secara amnya, polisi ini berfungsi sebagai garis panduan untuk menggalak dan mempertingkatkan budaya penyelidikan di kalangan penyelidik UPM. Ia merupakan Tanda Aras Jaminan Kualiti untuk memperbaiki tahap pelaksanaan penyelidikan melalui takrifan hubungan dengan Standard Kualiti. Polisi ini juga dilihat sebagai satu mekanisma bagi memastikan ketetapan kualiti penyelidikan dipenuhi.

R&D Bridging Fund- Pada 19-21 Julai 2005 dan 3 Ogos 2005 bertempat di Bilik Lembaga, Bangunan Pentadbiran UPM, RMC telah menguruskan sesi Pembentangan Cadangan Pengkomersialan Penyelidikan dan Pembangunan-Bajet 2005. MTDC telah dipertanggungjawabkan oleh pihak Kementerian Kewangan untuk menilai permohonan yang dikemukakan oleh UPM dalam bidang bioteknologi dan pertanian. Seramai 24 orang penyelidik telah membentangkan hasil penyelidikan masing-masing. Pembentangan ini merupakan *pre-asesment* kepada para penyelidik yang memohon sebelum dibentangkan kepada Kementerian Kewangan.

Paten 2005: Kepentingan menjaga harta intelek adalah penting bagi memastikan hasrat kerajaan merealisasikan matlamat K-Ekonomi dan Wawasan 2020 tercapai sewajarnya. Dalam hal ini, UPM turut memainkan peranannya dengan menggalakkan para penyelidik untuk mempatenkan hasil penyelidikan mereka. Sepanjang tahun 2005, Pusat Pengurusan Penyelidikan telah menerima dan

memproses sebanyak 20 permohonan baru daripada penyelidik UPM bagi proses pemfailan paten. 12 daripadanya telah disokong berdasarkan beberapa kriteria yang telah ditetapkan oleh pihak Universiti.

Bagi tahun 2005, 2 hasil penyelidikan UPM telah berjaya mendapat sijil paten USA. Prof Madya Ir. Dr Mohd Razali Abdul Kadir telah berjaya mendapat sijil paten (US 6907704B2) untuk hasil penyelidikan beliau bertajuk 'Interlocking Motarless Load Bearing Building Block', manakala Prof. Datin Dr. Khatijah Yusoff telah mendapat sijil paten (US 9939957B2) bagi hasil penyelidikan beliau bertajuk 'Nucleotide Sequences of the Nucleocapsid (NP) and Phosphoprotein (P)'.

Perbelanjaan dan Baki Dana Paten- Pada tahun 2005, peruntukan sebanyak RM 500,000.00 telah diagihkan untuk Dana Paten bagi membiayai segala aktiviti yang berkaitan dengan kos pemfailan paten para penyelidik UPM. Ini bertujuan merialisasikan matlamat UPM untuk mencapai 50 permohonan setahun. Sebanyak RM468,034.34 telah digunakan untuk membiayai perbelanjaan berkaitan dengan paten. Jumlah ini merangkumi perbelanjaan paten dalam dan luar negara bagi aktiviti seperti carian paten, penulisan spesifikasi paten, yuran bagi mendaftar permohonan dan yuran Permintaan Pemeriksaan Substantif. Baki dana yang masih tinggal sehingga akhir 2005 adalah sebanyak RM31,965.66.

Research Policy: UPM formulated a Research Policy as a measure to strengthen its research activities. An Adhoc Committee on Drafting the Research Policy which comprised Legal Officers and experienced researchers representing their respective fields, was formed on 20 December 2005. Generally, the policy serves as a guideline to encourage and inculcate the research culture among UPM researchers. Furthermore, it provides a Quality Assurance Bench Mark in improving the level of research implementation through defining relationship and Quality Standards. This policy also functions as a mechanism to ascertain that research quality standards are accomplished.

R&D Bridging Fund- On 19 - 21 July 2005, located at the Board Room, UPM Administrative Building, RMC had organised a session on Research Commercialisation and Development Proposal Presentation-Budget 2005. MTDC was granted the responsibility to evaluate UPM's application in the field of biotechnology and agriculture by the Ministry of Finance. A total of 24 researchers presented their research findings. This presentation was a pre-assessment of the research applicants prior to the presentation to the Ministry of Finance.

Patent 2005- The importance of protecting intellectual property was vital to ensure that government's aspirations of K-Economy and Vision 2020 would be accomplished accordingly. Thus, UPM played a significant role in encouraging researchers to patent their research products. Throughout 2005, the Research Management Centre had received and processed 20 new applications from UPM

researchers for patent filing process. Twelve of them had been endorsed as they fulfilled the criteria set by the University.

In 2005, two research findings of UPM succeeded in obtaining the USA Patent Certificates.

Associate Professor Ir. Dr. Mohd Razali Abdul Kadir managed to obtain a patent certificate (US 6907704B2) for his research finding entitled "Interlocking Motarless Load Bearing Building Block", while Prof. Datin Dr. Khatijah Yusoff received a - patent certificate (US 9939957B2) for her research product entitled "Nucleotide Sequences of the Nucleocapsid (NP) and Phosphoprotein (P)."

Expenditure and Patent Fund Balance:

An allocation of RM 500,000.00 was set aside for the Patent Fund to finance activities related to patent filing of UPM researchers. This was to realise UPM's mission of acquiring at least 50 applications annually. A total of RM468,034.34 had been utilised to finance patent related expenditure. This amount encompassed local and foreign patent expenditures for activities such as patent search, patent specification writing, application registration fees, and Substantive Investigation Request fees.



Pengkomersialan

Usaha UPM dalam meningkatkan kegiatan pengkomersialan hasil penyelidikan telah membuahkan hasil apabila 6 produk penyelidikan UPM telah dikomersialkan.

NO.	PRODUK	PENYELIDIK	INDUSTRI	STATUS KOMERSIAL
1.	Set Pembuat Jem (Jam Maker)	Puan Rosnah	Phytofolia Sdn. Bhd.	- Penjualan Hak terus (outright sale)
2.	Putra Blok	Prof. Madya Dr. Ir. Mohd. Razali Abdul Kadir	Ligamesra Sdn. Bhd.	- Penjualan Hak terus (outright sale)
3.	Vaksin untuk UPM 93273 Infectious Bursal Disease Virus	Prof. Madya Dr. Hair Bejo	Malaysian Vaccine & Pharmaceutical Sdn. Bhd.	Berlesen
4.	Reports Software	Prof. Madya Dr. Arfah Salleh	Computer Based Learning Sdn. Bhd.	Berlesen
5.	High Performance Biodegradable Lubricants from Palm Oil	Dr. Robiah Yunus	Techroil Sdn. Bhd.	Komersial
6.	Bacteriocin	Prof. Madya Dr. Foo Hooi Ling	SRAS Sdn. Bhd.	Komersial Berlesen



Commercialisation

UPM's effort in commercialising the research findings has resulted in 6 research products being marketed successfully.

NO.	PRODUCT	RESEARCHER	INDUSTRY	COMERCIAL STATUS
1	Jam maker	Puan Rosnah	Phytofolia Sdn.Bhd.	Outright sale
2	Putra Block	Associate Prof. Dr. Ir. Mohd Razali Abdul Kadir	Ligamesra Sdn.Bhd	Outright sale
3	Vaccine for UPM 93273 Infectious Bursal Disease Virus	Associate Prof. Dr. Hair Bejo	Malaysian Vaccine & Pharmaceutical Sdn.Bhd	Licensed
4	Reports Software	Associate Prof. Dr. Arfah Salleh	Computer-Based Learning Sdn.Bhd	Licensed
5	High Performance Biodegradable Lubricants from Palm Oil	Dr. Robiah Yunus	Techroil Sdn.Bhd.	Commercial
6	Bacteriocin	Associate Prof Dr Foo Hooi Ling	SRAS Sdn.Bhd.	Commercial - licensed

UPM's accolades in national and international exhibitions - 2005

Researchers from UPM sustained their outstanding achievements by continuously winning various acclaimed awards and receiving acknowledgements locally and internationally. They had won 631 medals in 15 exhibitions held at the distinct university, national and international levels. This included 76 at national level competition, 29 at international level competition, 12 individual achievements at national level, 5 individual achievements at international level, 8 excellent scientist awards and 480 medals in various invention, research and innovation exhibition held in UPM.

Associate Prof. Dr. Ratnasamy Muniandy (Faculty of Engineering), one of UPM's outstanding researchers, was appointed the only member of jury from Malaysia for 4 international exhibitions, namely INPEX, BIS, IENA (Germany), and Eureka.

PRPI 2005 – Invention, Research and Innovation Exhibition, UPM

A series of Invention, Research and Innovation Exhibition, UPM 2005 (PRPI 2005) was held from 9 to 16 March 2005. This time, PRPI was conducted in stages at every participating faculty and institute. The Faculty of Engineering, the Faculty of Environmental Studies and the Institute of Bioscience were the first to hold the Exhibition on 9 March 2005 and the series



Kejayaan UPM di pameran peringkat kebangsaan dan antarabangsa-2005

Penyelidik UPM meneruskan kecemerlangan dengan memenangi pelbagai anugerah dan pengiktirafan di dalam penyelidikan sama ada di peringkat kebangsaan mahupun antarabangsa. Sepanjang tahun 2005, para penyelidik UPM telah terlibat dalam 15 pameran di peringkat universiti, kebangsaan dan antarabangsa dengan membolot sejumlah 631 pingat. Ini termasuk 76 di pertandingan peringkat kebangsaan, 29 di pertandingan peringkat antarabangsa, 12 pencapaian individu peringkat kebangsaan, 5 pencapaian individu peringkat antarabangsa, 8 anugerah saintis cemerlang, dan 480 di pameran reka cipta, penyelidikan dan inovasi UPM.

Salah seorang daripada penyelidik UPM iaitu Prof. Madya Dr. Ratnasamy Muniandy (Fakulti Kejuruteraan) telah mendapat pengiktirafan setelah dilantik sebagai satu-satunya wakil/juri daripada Malaysia bagi 4 pameran peringkat antarabangsa iaitu INPEX, BIS, IENA (Jerman), dan Eureka.

PRPI 2005-Pameran Reka Cipta, Penyelidikan dan Inovasi, UPM

Siri Pameran Reka Cipta, Penyelidikan & Inovasi UPM 2005 (PRPI 2005) telah berlangsung pada 9 hingga 16 Mac 2005. PRPI kali ini telah dijalankan secara berperingkat di setiap Fakulti dan Institut yang mengambil bahagian. Fakulti Kejuruteraan, Fakulti Alam Sekitar dan Institut Biosains telah membuka tirai PRPI 2005 ini pada 9 Mac 2005 dan diakhiri oleh Institut Gerontologi pada 16-17 Mac 2005. Sebanyak 920 hasil projek penyelidikan telah dipamerkan di PRPI 2005 yang merupakan jumlah penyertaan paling tinggi sejak PRPI-UPM dimulakan.

PRPI 2005 telah diadili oleh seramai 76 orang hakim terdiri daripada individu profesional dan berpengalaman serta pakar dalam bidang masing-masing. Sebanyak 47 Pingat Emas, 180 Pingat Perak dan 253 Pingat Gangsa telah dimenangi oleh para penyelidik pada PRPI kali ini.

Majlis Penganugerahan telah berlangsung pada 13 Mei 2005 bagi meraikan kesemua pemenang PRPI 2005 di Dewan Besar, PKKSSAAS UPM. Majlis tersebut telah disempurnakan oleh YB. Prof. Datuk Dr. Mohd. Ruddin Abdul Ghani, Setiausaha Parlimen, Kementerian Sains, Teknologi dan Inovasi (MOSTI).

I-TEX 2005-International Invention, Innovation, Industrial Design & Technology Exhibition

ITEX 2005 telah diadakan pada 19-21 Mei 2005 di Pusat Dagangan Dunia Putra (PWTC), Kuala Lumpur. Daripada 34 produk yang di pertandingan, delegasi UPM telah berjaya memenangi 31 pingat dengan pecahan pingat; 3 emas, 12 perak

came to an end on 16-17 March 2005 at the Institute of Gerontology. A total of 920 research exhibits was displayed, making it the most number of products exhibited since PRPI-UPM began.

A total of 76 judges, comprising professionals and experienced individuals were appointed in PRPI 2005. 47 Gold medals, 180 Silver medals and 253 Bronze medals were won by the researchers.

The Prize-giving ceremony was held on 13 May 2005 at the Main Hall, PKKSSAAS UPM. The ceremony was graced by YB. Prof. Datuk Dr. Mohd. Ruddin Abdul Ghani, Parliamentary Secretary, Ministry of Science, Technology and Innovation (MOSTI).

I-TEX 2005 – International Invention, Innovation, Industrial Design & Technology Exhibition.

ITEX 2005 was held from 19 - 21 May 2005 in Putra World Trade Centre (PWTC), Kuala Lumpur. UPM managed to win 31 medals out of 34 products submitted for the competition (3 gold medals, 12 silver medals, 16 bronze medals) and 2 Special Awards. Mr Muhammad Rezal Kamel Ariffin was conferred the Special Award for University of Creativity from the National United University, Taiwan whereas Associate Prof. Dr Arfah Salleh proudly received the Best Woman Inventor award from the International Federation of Invention Associations. Furthermore, UPM's booth was adjudged the best booth in the Special Design Category. Generally, UPM was ranked third in the list of awards won by all the IPTA and IPTS.



R&D IPTA Expo 2005

R&D IPTA Expo 2005 was held in Putra World Trade Centre (PWTC), Kuala Lumpur from 30 September to 2 October 2005. A total of 406 products was displayed and UPM submitted 40 research findings. Seven products were displayed in the Main Gallery in the Breakthrough Category and one product in the Joint-Venture Category. The remaining 32 products were displayed in the UPM booth in the Potential for Commercialisation Category and International Research Collaboration Category. UPM won 29 medals: 11 Gold, 5 Silver and 13 bronze. UPM's booth was judged the best booth in the Special Design Category.

BIOTECHNOLOGY ASIA 2005 was held in Dewan Tun Razak 3, Putra World Trade Centre (PWTC), Kuala Lumpur from 16 to 18 August 2005. This year, BIOTECHNOLOGY ASIA 2005 not only organised a research product exhibition but also a research competition in the biotechnology field as well. UPM had

dan 16 gangsa serta berjaya merangkul 2 Anugerah Khas. En. Muhammad Rezal Kamel Ariffin telah menerima *Special Award for University of Creativity* oleh National United University Taiwan, dan Prof. Madya Dr. Arfah Salleh telah dinobatkan sebagai penerima Anugerah Piala Persekutuan Antarabangsa Persatuan Pereka Cipta (IFIA) bagi Pereka Cipta Wanita Terbaik. Secara keseluruhannya, UPM telah berada di ranking ke-3 di dalam senarai penerima anugerah yang dimenangi oleh IPTA dan IPTS. Booth UPM juga telah dianugerahkan sebagai Booth Terbaik (Kategori Special Design).

Ekspo R&D IPTA 2005

Ekspo R&D IPTA 2005 telah berlangsung pada 30 September hingga 2 Oktober 2005 di Pusat Dagangan Dunia Putra (PWTC), Kuala Lumpur. Pada ekspo kali ini sebanyak 406 produk telah dipamerkan dan UPM telah menghantar sebanyak 40 produk penyelidikan. Lapan (8) produk telah dipamerkan di Galeri Utama dalam kategori Breakthrough sebanyak tujuh (7) produk dan satu (1) produk bagi kategori Joint-Venture. Tiga puluh dua (32) produk lagi dipamerkan di booth UPM bagi kategori Potential for Commercialization dan kategori *International Research Collaboration*. Delegasi UPM telah berjaya membawa pulang sebanyak 29 pingat dengan pecahan pingat 11 emas, 5 perak dan 13 gangsa. Booth UPM juga telah dianugerahkan booth terbaik bagi kategori rekabentuk khas.

PAMERAN BIOTECHNOLOGY ASIA 2005 telah berlangsung pada 16 hingga 18 Ogos 2005 di Dewan Tun Razak 3, Pusat Dagangan Dunia Putra (PWTC), Kuala Lumpur. Pada tahun ini BIOTECHNOLOGY

ASIA bukan sahaja sekadar pameran penyelidikan tetapi juga menganjurkan pertandingan penyelidikan dalam bidang bioteknologi. UPM telah menghantar 9 produk dan kesemua delegasi telah mencapai kejayaan gemilang dengan masing-masing membawa pulang pingat (4 emas, 3 perak dan 2 gangsa) untuk produk yang dipamerkan.

Geneva 2005- *International Exhibition Of Inventions, New Techniques And Products*, Switzerland-Seramai 12 orang penyelidik termasuk seorang urus setia RMC telah berlepas ke Geneva, Switzerland menghadiri pameran yang berlangsung pada 6-10 April 2005. UPM telah mencapai 100% kejayaan dengan membawa pulang 5 emas, 5 perak dan 3 gangsa pada pameran ini hasil daripada 13 produk penyelidikan yang di pameran, dimana ini adalah mengulangi kejayaan tahun 2004.

INPEX 2005- *Invention & New Product Exposition*, USA-UPM telah menghantar 4 produk bagi INPEX 2005 di Monroeville Expomart, Pittsburgh, Amerika Syarikat pada 8-11 Jun 2005. Prof. Dr. Mohd Amin Mohd Soom adalah ketua delegasi bagi 4 penyelidik UPM yang telah berjaya memenangi 2 pingat emas di ekspo tersebut.

BIS 2005- (*The British Invention Show 2005, London*) - Penyertaan kali ini UPM lebih menumpukan kepada kluster sains dan kejuruteraan dengan membawa cabaran 5 produk yang dipamerkan dan dipertandingkan. Kesemua penyelidik yang terlibat adalah dari Fakulti Kejuruteraan dan lebih membanggakan bagi UPM apabila Dr. Ratnasamy Muniandy (Fakulti Kejuruteraan) telah dipilih sebagai juri antarabangsa untuk pertandingan tersebut. Delegasi UPM telah berjaya

submitted 9 products and all won medals in their respective fields (4 Gold, 3 Silver and 2 Bronze).

Geneva 2005- International Exhibition of Inventions, New Techniques and Products, Switzerland

This exhibition was held in Geneva, Switzerland from 6 to 10 April 2005. Twelve researchers from UPM and an officer from the RMC secretariat participated in this exhibition. Thirteen research products were displayed and all of them won medals in their respective categories (5 Gold, 5 Silver and 3 Bronze). This achievement was a repeat performance of the 2004 success.

INPEX-2005 - In the Invention & New Product Exposition, USA (INPEX 2005) held at Monroeville Expomart, Pittsburg, USA from 8-11 June 2005, UPM submitted 4 products. Prof. Dr. Mohd Amin Mohd Soom led the UPM four-men delegation of researchers and managed to win 2 gold medals at the expo.

BIS 2005-The British Invention Show 2005, London

This time, UPM intensified more on Science and Engineering cluster by submitting 5 products for display and competition. All researchers were from the Faculty of Engineering. The outstanding Dr. Ratnasamy Muniandy (Faculty of Engineering) made UPM proud when he was appointed as one of the international jury in the competition. UPM delegation won 4 gold medals and 1 silver medal.



Associate Prof. Ir. Megat Johari Megat Mohd. Noor and Associate Prof. Dr. Mohd Salleh Jaafar not only won the gold medal each but were also awarded the Special Gold Award and Special Silver Award respectively.

EUREKA (World Exhibition on Innovation, Research and New Technologies) 2005 was held on 16-20 November 2005 in Brussels, Belgium. Five products were submitted and 4 won gold medal, 1 silver medal and 3 special awards: Dr. Ahmad Samsuri Mokhtar was awarded the Russian Federation Special Achievement Award (Federal Agency for Industry), Associate Prof Dr. Mohd Khazani Abdullah won the Organization Mondiale De La Presse Periodique (OMPP), Bruxelles Special Award, while UPM delegation received the Special Recognition Award from Bosnia-Herzegovina.

Other Research Exhibitions

The National Intellectual Property Day Expo was held on 3-6 March 2005 in Malaysia's International Trade Centre,

memenangi 4 pingat emas dan 1 pingat perak. Prof. Madya. Ir. Megat Johari Megat Mohd. Noor dan Prof. Madya Dr. Mohd. Salleh Jaafar pula bukan sahaja mendapat pingat emas masing-masing tetapi telah dianugerahkan Anugerah Khas Emas dan Anugerah Khas Perak.

EUREKA (World Exhibition on Innovation, Research and New Technologies) 2005 telah diadakan 16-20 November 2005 di Brussels, Belgium. Lima (5) produk telah membawa cabaran ini dan telah pulang dengan kejayaan yang cemerlang dengan mengondol 4 pingat emas, 1 gangsa dan 3 anugerah khas iaitu; Anugerah Pencapaian Khas Russian Federation (Federal Agency for Industry)-Dr. Ahmad Samsuri Mokhtar, Anugerah Khas Organization Mondiale De La Presse Periodique (OMPP), Bruxelles-Prof. Madya Dr. Mohd Khazani Abdullah, dan Special Recognition Award from Bosnia Herzegovina bagi Delegasi UPM.

Pameran-pameran penyelidikan lain

Expo Hari Harta Intelekt Negara pada 3-6 Mac 2005 bertempat di Malaysia International Trade Centre, Melaka yang dirasmikan oleh: Y.A.B. Datuk Seri Abdullah Ahmad Badawi. Sebanyak 4 produk telah dipamerkan.

Pameran Sempena lawatan KSN Tan Sri Samsudin Osman diadakan pada 8 April 2005 di PKKSSAAS UPM. 20 produk telah dipamerkan.

Natpro 2005- Asia Pacific Natural Product Expo diadakan pada 14-16 April 2005. Tempat Putra World Trade Centre, KL yang dirasmikan oleh Dato' Sri Jamaludin Dato' Mohd. Jarjis. 10 produk telah dipamerkan.

BioMalaysia 2006 telah diadakan pada 28-

29 April 2005 di Putrajaya International Convention Centre, Putrajaya yang dirasmikan oleh Dato' Sri Jamaludin Dato' Mohd. Jarjis. Pada kali ini, UPM mempamerkan 10 produk.

Pameran Sempena Lawatan Menteri Perladangan, Industri dan Komoditi yang dirasmikan oleh Datuk Peter Chin Fah Kui telah berlangsung pada 26 Mei 2005 di IDEAL, UPM. Sebanyak 28 produk telah dipamerkan.

Pameran Minggu Komoditi 2005 di Malaysia International Exhibition & Convention Centre (MIECC), Mines telah berlangsung pada 8-13 Ogos 2005. Datuk Seri Abdullah Ahmad Badawi telah merasmikannya. 3 produk telah dipamerkan.

EABEX 2005- East Asia Business Exhibition telah dirasmikan oleh Dato' Seri Rafidah Aziz pada 8-13 Ogos 2005 di KLCC, KL. 3 produk penyelidikan telah dipamerkan.

Anugerah Penyelidik Cemerlang 2005 telah dianjurkan oleh UPM pada 23 Mac 2006 di Hotel Equatorial, Bangi. Dato' Mustapa Mohamed, Menteri Pengajian Tinggi telah merasmikannya. Anugerah ini merupakan pengiktirafan kepada pensyarah dan penyelidik Universiti Putra Malaysia yang telah menunjukkan kecemerlangan dalam tahun 2005 di peringkat kebangsaan dan antarabangsa. Majlis ini akan dijadikan acara tahunan universiti bagi memastikan kecemerlangan berterusan para penyelidik UPM ke arah Universiti Penyelidikan bertaraf antarabangsa. Penerima-penerima anugerah adalah seperti berikut:-

Melaka which was officiated by the Honourable Datuk Seri Abdullah Ahmad Badawi. A total of 4 products was displayed.

An exhibition in conjunction with the visit of the Chief Secretary to the Government of Malaysia Tan Sri Dato' Samsudin Osman was held on 8 April 2005 in PKKSSAAS UPM. Twenty products were displayed.

Natpro 2005- Asia Pacific Natural Product Expo held on 14 - 16 April 2005 in Putra World Trade Centre, Kuala Lumpur was officiated by Dato' Sri Jamaludin Dato' Mohd Jarjis. Ten products were displayed.

BioMalaysia 2005 was held on 28-29 April 2005 in Putrajaya International Convention Centre, Putrajaya, and officiated by Dato' Sri Jamaludin Dato' Mohd Jarjis. Ten products were displayed.

An exhibition in conjunction with the visit of the Minister of Plantation, Industry and Commodity, Datuk Peter Chin Fah Kui to UPM was organised on 26 May 2005 at IDEAL, UPM. A total of 28 products was displayed.

The Commodity Week Exhibition 2005 was held in the Malaysia International Exhibition & Convention Centre (MIECC), Mines on 8-13 August 2005. The Prime Minister Datuk Seri Abdullah Ahmad Badawi graced the occasion. Three products were displayed.

EABEX 2005-The East Asia Business Exhibition held on 8-13 August 2005 in KLCC, KL was officiated by Dato' Seri Rafidah Aziz. Three research products were displayed.



The Excellent Researcher Award 2005 was organized by UPM on 23 March 2005 at the Hotel Equatorial, Bangi. Dato' Mustapa Mohamed, the Minister of Higher Education officiated the ceremony. This award afforded recognition to UPM researchers and lecturers who had demonstrated outstanding achievements at national and international levels. This ceremony would be held annually to ensure continued success of UPM's researchers towards steering UPM into a world-class research university. The award recipients were:

BIL	PENERIMA	ANUGERAH	FAKULTI / INSTITUT
1.	Prof. Madya Dr. Mohd. Hair Bejo	Komersialisasi	Fakulti Perubatan Veterinar
2.	Prof. Madya Dr. Ir. Mohd Sapuan Salit	Penerbitan Cemerlang - Bidang Sains & Teknologi	Fakulti Kejuruteraan
3.	Dr. Jegatheswaran Ratnasingam	Penerbitan Cemerlang - Bidang Sains & Teknologi	Fakulti Perhutanan
4.	Prof. Dr. Ahmad Zubaidi Baharumshah	Penerbitan Cemerlang - Bidang Sains Sosial dan Kemanusiaan	Fakulti Ekonomi dan Pengurusan
5.	Prof. Datin Dr. Khatijah Mohd Yusoff	Anugerah Khas	Fakulti Bioteknologi dan Sains Biomolekul
6.	Prof. Dr. Ir. Radin Umar Radin Sohadi	Anugerah Khas	Fakulti Kejuruteraan
7.	Prof. Dr. Md. Nordin Hj. Lajis	Anugerah Khas	Institut Biosains
8.	Prof. Madya Dr. Mohd Adzir Mahdi	Penyelidik Muda - Bidang Sains & Teknologi	Fakulti Kejuruteraan
9.	Dr. Samsilah Roslan	Penyelidik Muda - Bidang Sains Sosial	Fakulti Pengajian Pendidikan
10.	Prof. Madya Dr. Ishak Aris	Pameran Antarabangsa	Fakulti Kejuruteraan
11.	Prof. Dr. Borhanuddin Mohd Ali	Pameran Antarabangsa	Fakulti Kejuruteraan
12.	Prof. Madya Dr. Abdul Rashid Mohamed Shariff	Pameran Antarabangsa	Fakulti Kejuruteraan
13.	Prof. Dr. Abu Bakar Salleh	Pameran Antarabangsa	Fakulti Bioteknologi & Sains Biomolekul
14.	Prof. Madya Badlishah Sham Baharin	Pameran Antarabangsa	Fakulti Sains & Teknologi Makanan
15.	Prof. Dr. Mahiran Basri	Pameran Antarabangsa	Fakulti Sains
16.	Prof. Madya Dr. Faridah Abdullah	Pameran Antarabangsa	Fakulti Sains
17.	Prof. Madya Dr. Irmawati Ramli	Pameran Antarabangsa	Fakulti Sains
18.	Dr. Noorhana Yahya	Pameran Antarabangsa	Fakulti Sains
19.	Prof. Dato' Dr. Kamel Ariffin Mohd. Atan	Pameran Antarabangsa	Institut Penyelidikan Matematik

NO.	RECIPIENT	AWARDS	FACULTY/INSTITUTE
1	Associate Prof. Dr. Mohd. Hair Bejo	Commercialisation	Faculty of Veterinary Medicine
2	Associate Prof. Dr. Ir. Mohd Sapuan Salit	Excellent Publication- Science & Technology Field	Faculty of Engineering
3	Dr. Jegatheswaran Ratnasingam	Excellent Publication- Science & Technology Field	Faculty of Forestry
4	Prof.Dr.Ahmad Zubaidi Baharumshah	Excellent Publication- Social Science and Humanitarian field	Faculty of Economics and Management
5	Prof. Datin Dr. Khatijah Mohd Yusoff	Special Award	Faculty of Biotechnology and Biomolecular Sciences
6	Prof. Dr.Ir. Radin Umar Radin Sohadi	Special Award	Faculty of Engineering
7	Prof.Dr.Md.Nordin Hj.Lajis	Special Award	Institute of Bioscience
8	Associate Prof. Dr. Mohd Adzir Mahdi	New Researcher- Science & Technology field	Faculty of Engineering
9	Dr. Samsilah Roslan	New Researcher – Social Science field	Faculty of Educational Studies
10	Associate Prof. Dr Ishak Aris	International Exhibition	Faculty of Engineering
11	Prof.Dr.Borhanuddin Mohd Ali	International Exhibition	Faculty of Engineering
12	Associate Prof. Dr. Abdul Rashid Mohammad Shariff	International Exhibition	Faculty of Engineering
13	Prof.Dr.Abu Bakar Salleh	International Exhibition	Faculty of Biotechnology and Biomolecular Sciences
14	Associate Prof Badlishah Sham Baharin	International Exhibition	Faculty of Food Science and Technology
15	Prof. Dr. Mahiran Basri	International Exhibition	Faculty of Science
16	Associate Prof Dr.Faridah Abdullah	International Exhibition	Faculty of Science
17	Associate Prof Dr.Irmawati Ramli	International Exhibition	Faculty of Science
18	Dr. Noorhana Yahya	International Exhibition	Faculty of Science
19	Prof. Dato' Dr Kamel Ariffin Mohd Atan	International Exhibition	Institute for Mathematical Research

BIL	PENERIMA	ANUGERAH	FAKULTI/INSTITUT
20.	Prof. Madya Dr. Arfah Salleh	Pameran Antarabangsa	Sek. Pengajian Pengurusan Siswazah
21.	Prof. Madya Dr. Jalaluddin Harun	Pameran Antarabangsa	Ins. Teknologi Maju
22.	Prof. Dr. Mohd. Amin Mohd. Soom	Pameran Antarabangsa	Fakulti Kejuruteraan
23.	Dr. Zairil Azhar Zaludin	Pameran Antarabangsa	Fakulti Kejuruteraan
24.	Prof. Madya Ir. Dr. Norman Mariun	Pameran Antarabangsa	Fakulti Kejuruteraan
25.	Prof. Madya Dr. Waleed M Thanoon	Pameran Antarabangsa	Fakulti Kejuruteraan
26.	Prof. Madya. Ir. Megat Johari Megat Mohd. Noor	Pameran Antarabangsa	Fakulti Kejuruteraan
27.	Prof. Madya Dr. Husaini Omar	Pameran Antarabangsa	Fakulti Kejuruteraan
28.	Dr. Norhisam Misron	Pameran Antarabangsa	Fakulti Kejuruteraan
29.	Prof. Madya Dr. Mohd Khazani Abdullah	Pameran Antarabangsa	Fakulti Kejuruteraan
30.	Prof. Dr. Shattri Mansor	Pameran Antarabangsa	Fakulti Kejuruteraan
31.	Dr. Ahmad Samsuri Mokhtar	Pameran Antarabangsa	Fakulti Kejuruteraan
32.	Prof. Madya Dr. Thamer Ahmed Mohammed	Pameran Antarabangsa	Fakulti Kejuruteraan
33.	En. Mohd Hanif Yaacob	Pameran Antarabangsa	Fakulti Kejuruteraan



NO.	RECEIPT	AWARDS	FACULTY/INSTITUTE
20	Associate Prof. Dr Arfah Salleh	International Exhibition	Graduate School of Management Studies
21	Associate Prof. Dr Jalaluddin Harun	International Exhibition	Institute of Advanced Technology
22	Prof. Dr. Mohd. Amin Mohd. Som	International Exhibition	Faculty of Engineering
23	Dr. Zairil Azhar Zaludin	International Exhibition	Faculty of Engineering
24	Associate Prof. Ir. Dr. Norman Mariun	International Exhibition	Faculty of Engineering
25	Associate Prof. Dr. Waleed M Thanoon	International Exhibition	Faculty of Engineering
26	Associate Prof Ir. Megat Johari Megat Mohd. Noor	International Exhibition	Faculty of Engineering
27	Associate Prof. Dr. Husaini Omar	International Exhibition	Faculty of Engineering
28	Dr. Norhisam Misron	International Exhibition	Faculty of Engineering
29	Associate Prof Dr. Mohd Khazani Abdullah	International Exhibition	Faculty of Engineering
30	Prof Dr. Shattri Mansor	International Exhibition	Faculty of Engineering
31	Dr. Ahmad Samsuri Mokhtar	International Exhibition	Faculty of Engineering
32	Associate Prof. Dr. Thamer Ahmed Mohammed	International Exhibition	Faculty of Engineering
33	En. Mohd Haniff Yaacob	International Exhibition	Faculty of Engineering



Pembangunan Mahasiswa

Student Development





“Universiti Putra
Malaysia (UPM)
Meletakkan
Matlamat Utama
Dalam Pelan
Strategik 2001-2010
Untuk Melahirkan
Graduan Yang
Berkualiti, Berdaya
Saing Dan
Berupaya Untuk
Terus Maju
Menerusi
Pembelajaran
Yang Berterusan”



Universiti Putra Malaysia (UPM) meletakkan matlamat utama dalam plan strategik 2001-2010 untuk melahirkan graduan yang berkualiti, berdaya saing dan berupaya untuk terus maju menerusi pembelajaran yang berterusan.

Untuk itu, pelbagai program telah dilaksanakan sepanjang tahun 2005 dalam usaha untuk mencapai matlamat tersebut. Usaha ini melibatkan banyak pihak terutamanya Bahagian Hal Ehwal Mahasiswa yang berperanan menjadi pemangkin ke arah pembentukan kecemerlangan, kewibawaan dan keterampilan mahasiswa melalui pelaksanaan aktiviti-aktiviti yang menekankan aspek kemajuan akademik serta pembangunan sahsiah diri melalui 4 matlamat utamanya iaitu:

- Pembangunan sahsiah dan kepimpinan
- Sokongan kemajuan akademik
- Kebajikan pelajar
- Keusahawanan

Anugerah Naib Canselor

Anugerah ini diberikan kepada pelajar tahun akhir yang cemerlang dalam bidang akademik dan kokurikulum. Pelajar perlu memperolehi Purata Nilai Gred Kumulatif (PNGK) sekurang-kurangnya 3.0, tidak pernah dikenakan sebarang tindakan tatatertib dan juga menunjukkan ketokohan, kewibawaan dan kesungguhan yang tinggi dalam aktiviti kepimpinan, kemasyarakatan, sukan dan sebagainya. Pada tahun 2005, seramai 60 orang pelajar telah menerima anugerah berprestij ini. Ini

In its Strategic Plan 2001-2010, Universiti Putra Malaysia (UPM) had stated that its primary goal was to produce graduates who were quality-focussed, competitive, and capable of progressing continuously through lifelong learning. Throughout 2005, various programmes were planned and implemented to achieve this goal. These efforts involved many entities, particularly the Student Affairs Division, whose role was to be the catalyst in shaping students towards excellence, credibility and outstanding personality through the implementation of activities which emphasised academic progress and personality development aspects. The four main objectives of the activities were:

- Leadership and Personality Development
- Support for academic progress
- Student welfare
- Entrepreneurship



Vice-Chancellor's Award

This award was reserved for final year students who have excelled in the academic and co-curricular activities. The recipients must obtain a Cumulative Grade Point Average (CGPA) of at least 3.0 and must have no record of any disciplinary action. Furthermore, they must be outstanding, and must demonstrate leadership qualities, responsibility and diligence as well as be active in sports, social and other activities. Sixty students received this prestigious award in 2005, showing an improvement compared to the previous year.

Sports Awards

The national athletes Mohd Robani Hassan and Chitra Devi a/p Arumugam received the UPM's 24th Sportsman and Sportswoman of the Year awards respectively. Robani won a gold medal in the 110m hurdles at the ASEAN Sports meet (SUA) 2004 in Surabaya

menunjukkan peningkatan berbanding tahun sebelumnya.

Anugerah Sukan

Atlet kebangsaan, Mohd Robani Hassan dan Citra Devi a/p Arumugam dipilih sebagai Olahragawan dan Olahragawati Anugerah Sukan Universiti Putra Malaysia kali ke-24 Sesi 2004/2005. Robani yang telah meraih pingat emas ketika beraksi dalam acara 110 meter lari berpagar pada Sukan Universiti ASEAN (SUA) 2004 di Surabaya manakala Citra Devi pula merupakan pemain hoki wanita kebangsaan. Pemilihan mereka adalah berdasarkan pencapaian ketika mewakili universiti, MASUM dan juga pencapaian ketika mewakili negara dalam beberapa kejohanan besar di peringkat antarabangsa.

Majlis Pengijazahan Kokurikulum Berkredit

UPM menawarkan 30 aktiviti kokurikulum berkredit yang mana ianya akan dimasukkan di dalam slip peperiksaan dengan keputusan M (Memuaskan) dan TM (Tidak Memuaskan). Antaranya ialah Persatuan Bulan Sabit Merah, Seni Silat Gayung, Budaya, Tae Kwan Do, Pandu Putri dan sebagainya. Seramai 470 orang pelajar telah diberikan sijil masing-masing yang melibatkan 14 buah persatuan dan kelab berkredit pada Majlis Pengijazahan Kokurikulum Berkredit yang telah diadakan pada 5 Mac 2005. Aktiviti kokurikulum berkredit ini amat relevan dan berguna sebagai satu nilai tambah kepada mahasiswa.



Majlis Doa Selamat dan Kesyukuran Mahasiswa Cemerlang

Kelab Al-Biruni UPM merupakan sebuah kelab elit yang dihaskan kepada pelajar-pelajar Melayu yang memperolehi PNGK Kelas Pertama iaitu 3.75 dan ke atas. Untuk memberi galakan dan suntikan semangat supaya pelajar-pelajar ini mengekalkan PNGK Kelas Pertama tersebut, Majlis Doa Selamat dan Kesyukuran Mahasiswa Cemerlang diadakan pada setiap semester pengajian untuk memberi sijil penghargaan kepada pelajar-pelajar cemerlang ini. Pada sesi 2005/2006 yang lalu, seramai 292 orang pelajar telah menerima sijil kecemerlangan untuk semester pertama sesi 2005/2006 manakala seramai 300 orang pelajar untuk semester kedua.



Awarding of Credits for Co-curricular Activities Ceremony on 5 March 2005. This credited co-curricular activity is highly relevant and beneficial and add value to the students' personal growth.

Prayer and Thanksgiving Ceremony for Excellent Students

Al-Biruni UPM is an elite .Club for Malay students who have obtained first class honours and a CGPA of 3.75 and above. The Prayer and Thanksgiving ceremony is held every academic semester to present the appreciation certificates to these excellent students in order to inject further encouragement and enthusiasm to ensure students maintain their First Class CGPA results. During the first semester of the 2005/2006 session, a total of 292 students received these certificates and during the second semester, another 300 students received the certificates.

Cultural Evening/Malam Tunas Budaya

In each academic session, an orientation programme called the Perkasa Putra Week was organized for the new students. The purpose was to provide them the information and assist them in adjusting to life in UPM. The highlight of this programme was the Cultural Evening. A selection of new students performed activities such as drama, pantomime and sketch around a chosen theme. This time the theme focussed on Courtesy is Our Culture (Budi Bahasa Budaya Kita) which coincided with the theme of the national

while Chitra Devi was a national hockey player. Their selection was based on their outstanding achievements while representing the University MASUM, and the country in various international tournaments.

Awarding of Credits for Co-curricular Activities Ceremony

UPM awards credit for 30 co-curricular activities. These credits are recorded in the examination results slip. Grades are recorded as Satisfactory or Unsatisfactory. These activities includ participation in the Red Crescent Society (PBSM), Seni Silat Gayung, Culture, Tae Kwan Do, Girl Guides (Pandu Putri), etc. Four hundred and seventy students from 14 Clubs and Societies received their certificates at the



Malam Tunas Budaya

Sempena kemasukan pelajar-pelajar baharu untuk setiap sesi pengajian, satu program suaikenal yang diberi nama Minggu Perkasa Putra telah diadakan untuk memberi penerangan dan gambaran awal mengenai UPM. Acara kemuncak bagi Minggu Perkasa Putra adalah Malam Tunas Budaya dimana pada malam tersebut, sebilangan pelajar-pelajar baharu ini akan membuat persembahan berbentuk pertandingan mengikut gabungan kolej-kolej kediaman seperti dramatari, pentomin, sketsa dan sebagainya mengikut tema yang telah ditetapkan. Pada tahun 2005, tema yang ditetapkan adalah Budi Bahasa Budaya Kita; bertepatan dengan kempen Budi Bahasa Budaya Kita yang dianjurkan oleh kerajaan. Selain memupuk

kesedaran pentingnya budi bahasa di kalangan pelajar, Malam Tunas Budaya juga berjaya mencungkil bakat-bakat terpendam di kalangan pelajar baharu.

Minggu Perkasa Putra (Suaikenal)

Minggu Perkasa Putra telah diadakan pada 2 hingga 9 Julai 2005 sempena kemasukan mahasiswa baharu Sesi Akademik 2005/2006. Bertemakan 'Memperkasa Kewibawaan Mahasiswa', program ini dijalankan dengan pengisian pelbagai slot yang dapat memberi informasi sebanyak mungkin sebagai panduan kepada mahasiswa baharu di UPM. Antaranya ialah Majlis Bersama Pengurusan Universiti, Majlis Bersama Menteri, Majlis Bersama Pemimpin Negara, Majlis Bersama Naib Canselor, Majlis Ikrar dan Kampus Indah.

campaign organised by the government. Besides creating awareness on the importance of culture among the students, the Cultural Evening was also successful in the search for new talents.

Orientation Week/Minggu Perkasa Putra

The Orientation Week for new students of the 2005/2006 academic year was held from 2 to 7 July 2005. The theme was "Strengthening Students Credibility". The week-long programme provided comprehensive information and guidance for the new students. The activities were: Meeting with the University Management, Meeting with the Minister, Meeting with the Country's Leaders, and Meeting with the Vice-Chancellor, Oath Taking and 'Beautiful Campus'. The distinguished guests included Y.B. Dato' Dr. Hj. Shafie bin Hj. Mohd Salleh, Minister of Higher Education; Datuk Mustapa Mohamed, Minister at the Prime Ministers Department; Y.B. Datuk Seri Utama Dr. Rais Yatim, Minister of Culture, Arts and Heritage, Y.B. Dato' Dr. Adham bin Baba, Parliamentary Secretary for Higher Education and also Y.Bhg. Datin Paduka Sharifah Mazlina bt Syed Abdul Kadir, an Alumni of UPM.

Campus Election (Student Representatives)

Students' Representative Council is the highest organisation for students in a university. It serves as a platform for the students to communicate with the university's administration. Elections are held in the campus for all students to vote

for their representatives. On 29 September 2005, elections were held in all institutes of higher learning simultaneously. UPM used on-line electronic voting (E-undi) to expedite the election process. A total of 94.7% of the undergraduates cast their votes and indicated one of the highest turnout among the public institutions of higher learning. Forty-eight posts were contested in the students Representative Council elections.

Organisation Strengthening Course

This course was attended by the president, vice president, secretary and treasurer of all clubs/societies registered with the Student Affairs Division. The course was very relevant particularly for student leaders as it provided insight for the leaders on how to manage clubs/societies which were entrusted in their care efficiently.

Clubs/Societies Carnival

This carnival was held on a large scale to enable each club/society to publicise their



Antara tetamu kehormat yang sudi memenuhi jemputan pihak penganjur adalah Y.B Dato' Dr. Hj. Shafie bin Hj. Mohd Salleh, Menteri Pengajian Tinggi; Y.B Datuk Mustapa Mohamed, Menteri di Jabatan Perdana Menteri; Y.B Datuk Seri Utama Dr. Rais Yatim, Menteri Kebudayaan, Kesenian dan Warisan; Y.B Dato' Dr. Adham bin Baba, Setiausaha Parlimen Kementerian Pengajian Tinggi dan juga Y.Bhg. Datin Paduka Sharifah Mazlina bt. Syed Abdul Kadir, Alumni UPM.

Pilihan Raya Kampus (Majlis Perwakilan Pelajar)

Majlis Perwakilan Pelajar (MPP) merupakan organisasi tertinggi bagi pelajar-pelajar di sesebuah universiti. Ianya merupakan salah satu medium perantara diantara pelajar dan pengurusan Universiti. Pemilihan ahli-ahli MPP ini adalah menerusi Pilihan Raya Kampus untuk memberi peluang kepada pelajar sendiri untuk memilih wakil yang mereka

kehendaki. Pada tahun 2005, ianya diadakan serentak di semua IPTA pada 29 September. UPM menggunakan Sistem Pengundian Secara On-Line (e-Undi) untuk memudahkan proses pengundian dan juga mempercepat proses pengiraan undi. Peratusan mahasiswa yang turun mengundi pada tahun ini adalah antara yang tertinggi di kalangan IPTA iaitu 94.7%. Sebanyak 48 kerusi telah dipertandingkan dalam pemilihan MPP tersebut.

Kursus Pemantapan Organisasi

Kursus ini disertai oleh Presiden, Timbalan Presiden, Setiausaha dan Bendahari untuk setiap persatuan/kelab yang berdaftar dengan Bahagian Hal Ehwal Mahasiswa. Kursus ini amat relevan dalam memberi panduan kepada pemimpin-pemimpin pelajar dalam mengurus persatuan/kelab yang diamanahkan kepada mereka dengan efisien.

Karnival Persatuan/Kelab

Karnival ini diadakan secara besar-besaran untuk membolehkan setiap persatuan/kelab mempromosi persatuan/kelab mereka dan dalam masa yang sama menambahkan ahli persatuan/kelab. Karnival ini amat berguna kepada pelajar baharu khususnya dalam mendapatkan informasi yang secukupnya sebelum menganggotai mana-mana persatuan/kelab yang diinginkan. Karnival ini dimeriahkan lagi dengan pameran, aktiviti dan demonstrasi yang menarik.





respective organisations and at the same time, recruit new members. This carnival provided a useful platform for new students to obtain enough information before enrolling in any clubs/societies. The carnival was made lively by organising exhibitions and interesting activities and demonstrations.

“Towering Personality” Forum

In complying with the Government's aspiration to produce graduates with 'towering personality', a forum on the topic was held. Three highly distinguished panel of speakers for the forum included Y.M. Prof. Diraja Ungku Aziz, Prof. Datuk Dr. Mohd Noh Dalimin and Senator Dato' Jins Shamsudin and the forum was chaired by Dato' Dr. Nordin Kardi. Approximately 600 students attended the forum.

Student Council Delegates Convention

The Student Affairs Division in collaboration with the Biro Tatanegara, Prime Minister's Department held a convention for student council members from various higher learning institutes. It was held at the Melaka International Trade Centre (MITC) at Ayer Keroh, Melaka from 13 to 16 May 2005. The theme of the convention was 'Undergraduates, the Inheritors of the Nation'. It was a gathering of all council members from all the institutes of higher learning in the country, to share and exchange ideas and views on various issues such as the World Class Graduate, the National Economic challenges and the National Security. The Convention was officially opened by the Minister of Higher Education, Dato' Dr. Shafie Salleh and



Forum “Perdana Towering Personality”

Dalam usaha menyahut seruan kerajaan dalam melahirkan mahasiswa yang berpersonaliti unggul (*towering personality*), satu forum mengenainya telah diadakan untuk mengupas isu tersebut. Forum ini telah mengundang 3 orang ahli panel yang tidak asing lagi iaitu Y.M Prof. Diraja Ungku Aziz, Prof. Datuk Dr. Mohd Noh Dalimin, Senator Dato’ Jins Shamsudin dan telah dipengerusikan oleh Dato’ Dr. Nordin Kardi. Forum ini telah dihadiri oleh hampir 600 orang pelajar.

Konvensyen Majlis Perwakilan Pelajar

Bahagian Hal Ehwal Mahasiswa UPM dengan kerjasama Biro Tatanegara, Jabatan Perdana Menteri telah menganjurkan Konvensyen Majlis Perwakilan Pelajar IPTA bertempat di Melaka International Trade Center (MITC), Ayer Keroh, Melaka pada 13 hingga 16 Mei 2005. Konvensyen yang bertemakan ‘Mahasiswa Pewaris Negara’ ini menghimpunkan semua ahli Majlis Perwakilan Pelajar dari setiap IPTA seluruh negara untuk berkongsi idea dan pandangan mengenai isu-isu yang dibincangkan seperti Graduan *World Class*, Cabaran Ekonomi Negara, Keselamatan Negara dan sebagainya. Konvensyen ini telah dirasmikan oleh Menteri Pengajian Tinggi, Y.B. Dato’ Dr. Hj. Shafie Salleh, manakala perasmian penutup telah disempurnakan oleh Ketua Menteri Melaka, Y.B. Datuk Seri Hj. Mohd Ali Rustam.

Gotong Royong Perdana Pantai Kelanang

Sempena kempen Budi Bahasa dan Nilai-nilai Murni Peringkat Universiti Putra Malaysia, Bahagian Hal Ehwal Mahasiswa dengan kerjasama Majlis Daerah Kuala Langat telah mengadakan Gotong Royong Perdana Pantai Kelanang pada 24 Julai 2005. Program ini disertai oleh lebih 500 orang pelajar UPM dan dirasmikan oleh Y.B Dato’ Dr. Hj. Shafie bin Hj. Mohd Salleh, Menteri Pengajian Tinggi. Antara aktiviti yang dijalankan adalah gotong royong membersihkan pantai, menanam pokok, mengecat surau di samping beberapa acara sampingan seperti sukaneka kanak-kanak dan perlawanan tarik tali dengan penduduk kampung.

closed by the Chief Minister of Melaka, Datuk Seri Hj. Mohd Ali Rustam.

Gotong Royong at Perdana Pantai Kelanang

In conjunction with the campaign 'Courtesy and Noble Values' at UPM Level, the Student Affairs Division in collaboration with the Kuala Langat District Council held a 'Premier Cooperation (Gotong Royong) Activity' at Pantai Kelanang on 24 July 2005. Five hundred UPM students participated and witnessed the official opening by the Minister of Higher Learning, Dato' Dr. Hj. Shafie bin Hj. Salleh. Some of the activities included cleaning up the beach area, planting trees and painting the surau besides a few games and telematches for children and tug-of-war competition for the villagers.

Women Undergraduate Day

Nowadays, it is a known fact that women dominate the population of the campuses. In UPM itself, they form 65% of the student body. Thus, it is only appropriate that the university conduct a programme for the women. The Women Undergraduate Day was held to give them an avenue to make a difference. Some of the activities held were: Siswi Anggun contest, Make-up Contest, Forum, Traditional Games Competition, Women's Futsal and Cooking Contests.

Basic Entrepreneurship Course for Undergraduates

This course was held for final year students who were interested in developing entrepreneurship skills and making it an option once they graduated. Participants of the course were equipped with the basic techniques on how to start a business. In 2005, approximately 500 students



Hari Siswi

Dewasa ini, kita tidak dapat menafikan fakta bahawa kaum Hawa telah mendominasi populasi masyarakat kampus. Di UPM sendiri, hampir 65% pelajarannya adalah siswi. Oleh yang demikian, wajarlah pihak universiti menganjurkan satu program khusus untuk warga majoriti di kampus. Hari Siswi diadakan untuk memberi ruang kepada warga siswi untuk melakukan sesuatu yang berbeza. Antara aktiviti menarik yang dijalankan adalah seperti Pertandingan Siswi Anggun, Pertandingan Solekan, Forum, Pertandingan Permainan Tradisional, Futsal Wanita dan Pertandingan Memasak.

Kursus Asas Keusahawanan Siswa

Kursus ini diberikan kepada mahasiswa tahun akhir yang berminat untuk menjadikan keusahawanan sebagai salah satu pilihan setelah bergraduasi kelak. Peserta-peserta kursus ini didedahkan

kepada teknik-teknik asas sebelum memulakan sebarang perniagaan. Pada tahun 2005, seramai hampir 500 pelajar telah mengikuti kursus ini. Ianya diadakan oleh Bahagian Hal Ehwal Mahasiswa UPM dengan kerjasama Kementerian Pembangunan Usahawan dan Koperasi (MeCD).

Kursus Induksi MPP

Majlis Perwakilan Pelajar (MPP) merupakan satu organisasi tertinggi di kalangan mahasiswa. Kualiti kepemimpinan mereka seharusnya berada di suatu tahap yang terbaik. Justeru, Kursus Induksi MPP ini perlu untuk membekalkan ahli-ahli MPP ini dengan daya kepemimpinan dan kemahiran membuat keputusan. Kursus ini diadakan pada 23-26 Oktober 2005 dan disertai oleh kesemua ahli MPP yang telah dilantik.

Seminar Pengurusan Asrama Peringkat Kebangsaan (SPARK 2005)

Asrama atau kolej kediaman merupakan satu komponen terpenting dalam pentadbiran universiti. Bagi memantapkan lagi sistem pengurusan asrama di IPTA, Bahagian Hal Ehwal Mahasiswa UPM dengan kerjasama Majlis Perumahan Universiti-universiti Malaysia (MAPUM) telah menganjurkan Seminar Pengurusan Asrama Peringkat Kebangsaan yang disertai oleh pengurus-pengurus dan juga fello-fello kolej kediaman setiap IPTA pada 28-30 September 2005 bertempat di Century Mahkota Hotel, Melaka. Pelbagai isu, masalah dan pandangan telah





attended the course. It was conducted by the Student Affairs Division, UPM in collaboration with the Ministry of Entrepreneurship and Cooperatives (MeCD)

Students Representative Council (MPP) Induction Course

Students Representative Council (MPP) is the highest organisation for students. Students leadership quality should be at its best. Thus, an induction course was significant in equipping them with leadership and decision making skills. This course was held on 23-26 October 2005 and was attended by all the elected MPP members.

National Level Seminar on Hostel Management (SPARK 2005)

Hostels or residential colleges are a significant component in the administration of the University. To improve hostel management in institutes of higher learning, the Student Affairs Division, UPM, in collaboration with the Malaysian Universities Housing Council (MAPUM) held a National Hostel Management Seminar. It was attended by managers and fellows of the residential colleges of all higher learning institutes. It was held from 28 to 30 September 2005 at the Century Mahkota Hotel, Melaka. Various issues, problems and views were discussed by the participants. Such deliberations would help improve hostel management for the benefit of the residents of the hostels and colleges.



diutarakan oleh para pembentang kertas kerja yang secara langsung dapat meningkatkan sistem pengurusan asrama demi kebaikan pelajar yang menjadi penghuni tetapnya.

Gema Seni Merdeka MAKUM

Gema Seni Merdeka MAKUM 2005 merupakan program anjuran bersama BHEM UPM dan Majlis Kebudayaan Universiti-universiti Malaysia (MAKUM) yang melibatkan penyertaan semua IPTA. Pada malam tersebut, setiap IPT telah membuat persembahan bertemakan patriotisme dan kemerdekaan. Selain berhibur, persembahan sebegini secara tidak langsung dapat menyuntik semangat patriotisme dan keinsafan di kalangan pelajar tentang betapa sukarnya orang-orang zaman terdahulu memerdekakan negara daripada tangan penjajah.

Pertandingan Nyanyian Solo Lagu-lagu Patriotik

Program anjuran Kementerian Pengajian Tinggi dengan kerjasama Bahagian Hal Ehwal Mahasiswa, UPM ini terbuka kepada IPTA & IPTS. Pertandingan nyanyian ini merupakan salah satu medium terbaik untuk menyemai rasa patriotisme dan kenegaraan di kalangan mahasiswa yang merupakan bakal pemimpin negara di masa akan datang. Antara lagu-lagu yang dipersembahkan adalah Tanah Pusaka, Malaysia Tanah Airku, Ilham Pujangga, Warisan dan Perwira.

Gema Seni Merdeka MAKUM

Gema Seni Merdeka MAKUM 2005 was a programme jointly organised by the Student Affairs Division, UPM and Malaysian Universities Cultural Council (MAKUM) which called for the participation of all institutes of higher learning. On the evening of the programme, each institute would present a stage performance on the theme of patriotism and independence. The performances were not just entertaining but were also beneficial in instilling the spirit of patriotism as well as increasing their awareness on how difficult it was for the people to gain independence.

Solo Patriotic Song Competition

This programme was organised by the Ministry of Higher Education in collaboration with the Student Affairs Division, UPM and was open to all IPTA and IPTS. The competition provided one of the best medium to generate patriotic and nationalistic values among students who would be the future leaders of the country. Among the songs rendered were Tanah Pusaka, Malaysia Tanah Airku, Ilham Pujangga, Warisan and Perwira.

Sports

Besides seeking excellence in the academic field, UPM students were also enthusiastically involved in sports. The Sports and Recreation Unit of the Student Affairs Division organised various sports development programmes to provide opportunities for students to excel in



Sukan

Selain menumpukan kecemerlangan dalam bidang akademik, pelajar UPM juga terlibat dalam bidang sukan. Beberapa program pembangunan sukan telah dijalankan oleh Unit Sukan dan Rekreasi, Bahagian Hal Ehwal Mahasiswa untuk memberi peluang kepada pelajar mengetengahkan bakat mereka dalam acara sukan tertentu selain mencari atlet-atlet berkualiti untuk mewakili universiti di peringkat yang lebih tinggi. Antaranya ialah Sukan Kolej, Sukan MASUM, sukan peringkat kebangsaan dan juga antarabangsa.

Apa yang membanggakan, beberapa atlet UPM telah berjaya memenangi pingat emas dan seterusnya mengharumkan nama negara semasa temasya Sukan SEA di Manila. Antaranya Mohd Robani Hassan (110 meter lari berpagar), Roslinda Samsu (lompat bergalah), Shahadan Jamaludin (400 meter lari berpagar) dan Siti Shahida Abdullah (baling tukul besi).

Debat Diraja

Pendebat UPM telah mencatat sejarah manis pada tahun 2005 dengan memenangi Pertandingan Debat Diraja Kali ke-9 bagi Kategori Utama Bahasa Melayu (Senior) dengan mengalahkan pasukan UiTM pada peringkat akhir. Kejayaan UPM tersebut lebih manis apabila salah seorang pendebatnya iaitu Kamarul Nizam Kamal telah dinobatkan sebagai Pendebat Terbaik pada kejohanan tersebut. Kejohanan yang berlangsung selama 1 minggu itu telah diadakan di Universiti Kebangsaan Malaysia (UKM) dengan usul 'Rumput Lebih Teguh Dari Cengal', kedua-dua pasukan telah bersaing dengan sengit untuk mempertahankan usul dan fakta masing-masing yang akhirnya memihak kepada pasukan UPM.



specific sports and to enable quality athletes to represent the university in sporting meets such as college sports, MASUM sports as well as at national and international sports tournaments.

UPM beamed with pride when a number of UPM athletes won gold medals at the SEA Games held in Manila, thus, contributing to the glory of the nation. Amongst the athletes were: Mohd Robani Hassan (110m hurdles), Roslinda Samsu (pole vault), Shahadan Jamaludin (400m hurdles) and Siti Shahida Abdullah (shot putt).

Royal Debate

UPM debaters achieved compelling success in 2005 when they won the 9th Royal Debate Competition for the main Category - the Malay Language (Senior) by defeating the UiTM at the final round. It was even more noteworthy as one of UPM debaters, Kamarul Nizam Kamal was declared the Best Debator of the competition. The one-week competition was held at University Kebangsaan Malaysia (UKM) and the motion of the debate was "Grass is stronger than Cengal" and both teams competed earnestly. Finally, UPM emerged as the rightful winner.



Pengurusan Berkualiti

Quality Management





“Pengurusan Berkualiti Yang Baik Akan Mencerminkan Kekuatan Universiti Secara Keseluruhan. Inilah Yang Telah Diamalkan Oleh UPM Untuk Memantapkan Sistem Pengurusan Berkualiti Yang Cepak”

Pengurusan berkualiti yang baik akan mencerminkan kekuatan universiti secara keseluruhan. Inilah yang telah diamalkan oleh UPM untuk memantapkan sistem pengurusan berkualiti yang cekap dan berkesan, telus dan mesra pelanggan berteraskan nilai-nilai murni. Antara objektif sistem pengurusan berkualiti ini adalah:

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

A) Penjaminan Kualiti Pengajaran

Penjaminan kualiti pengajaran bagi program akademik peringkat bachelors di UPM melalui pelaksanaan Kod Amalan Jaminan Kualiti IPTA adalah bagi tujuan meningkatkan keyakinan pihak awam kepada kekuatan pendidikan tinggi awam.

Penilaian jaminan kualiti di UPM telah dimulakan sepanjang tahun ini bermula dengan lawatan penilaian ke atas Fakulti Ekonomi dan Pengurusan diikuti Fakulti Pengajian Pendidikan, Fakulti Sains

dan Fakulti Pengajian Alam Sekitar. Untuk meneruskan kesinambungan jaminan kualiti ini lawatan akan diteruskan lagi ke fakulti-fakulti lain pada tahun 2006.

B) Akreditasi Program Profesional

Untuk mengekalkan akreditasi bagi semua program akademik, semua staf akademik program profesional sentiasa digalakkan mendaftar dengan badan-badan akreditasi profesional seperti Institut Akauntan, Lembaga Jurutera Malaysia, Lembaga Perubatan Malaysia, Persatuan Kaunseling dan Lembaga Arkitek Malaysia.

C) Fellowship dan Basiswa Antarabangsa serta program kerjasama (MoU) dalam bidang akademik antara UPM dan universiti luar negara.

Sepanjang tahun 2005, seramai 25 orang staf akademik UPM telah menerima anugerah Fellowship dan Basiswa Antarabangsa.

An effective Quality Management System reflected the strength of the University holistically. UPM has been implementing such a scheme to strengthen its quality assurance system which was efficient, effective, transparent and client-friendly and based on noble values.

The objectives of the Quality Assurance System, among others, were:

- to enhance the management system which instilled a culture of continuous improvement
- to entrench a management system which was founded on the principle of transparency
- to infuse the management system with a client-friendly culture

a) Quality Teaching Assurance

The Quality Teaching Assurance for all UPM academic programmes at the Bachelor Degree level has been implemented through the IPTS Quality Assurance Code of Practice for the purpose of raising the confidence of the public on the strength of public higher education.

The Quality Assurance Evaluation at UPM which was conducted throughout the year began with the evaluation of the Faculty of Economics and Management, followed by the Faculty of Educational Studies, the Faculty of Science and the Faculty of Environmental Studies. Throughout 2006, similar evaluation exercise will be expanded to the other faculties in pursuit of the Quality Assurance and to ensure its continuity.

b) Professional Accreditation Programme

In sustaining the accreditation of its academic programmes, UPM had always encouraged the professional programme academic staff to register with the professional academic bodies such as the Institute of Accountants, the Malaysian Board of Engineers, the Malaysian Medical Council, the Counselling Association and the Malaysian Board of Architects.

c) Fellowship and International Scholarship Including Collaborative Programmes (MoU) in the Academic Field between UPM and Foreign Universities

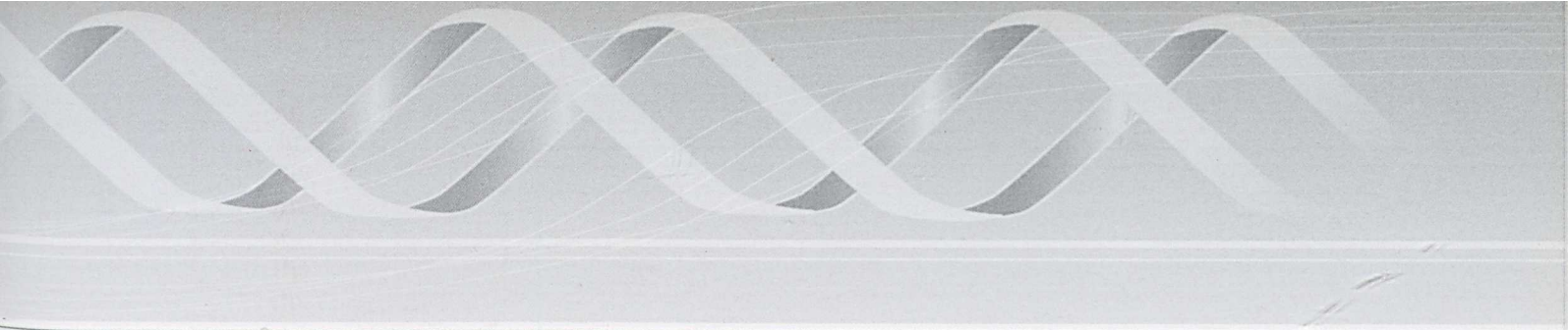
Throughout the year 2005, the following 25 UPM academic staff had received fellowships and international scholarships:-

**Jadual 1.0: Fellowship/Biasiswa Antarabangsa dan Penganjur /
Schedule 1.0: Fellowship/International Scholarship and Sponsor**

NO. NO.	FELLOWSHIP/BIASISWA FELLOWSHIP/SCHOLARSHIP	PENGANJUR SPONSOR	NAMA CALON NAME OF CANDIDATES
1	TWAS Prizes 2005	The Third World Academy of Sciences	<ol style="list-style-type: none"> 1. Prof. Madya Dr. Mohd. Sapuan Salit Fakulti Kejuruteraan / Faculty of Engineering 2. Dr. Yap Chee Kong Fakulti Sains/ Faculty of Science
2	Scholarships Doctoral Program at Munich Graduate School of Economics	German Research Foundation German Academic Exchange Service	Kong Chee Sing Fakulti Pertanian/ Faculty of Agriculture
3	Taiwan International Graduate Program	Ministry of Foreign Affairs and Ministry of Education, Taiwan	Yap Fei Ling Fakulti Perubatan dan Sains Kesihatan / Faculty of Medicine and Health Science
4	Great Wall Co-sponsored Fellowships Program 2005	The Government of The People's Republic of China	1. Lisa Ong Gaik Ai Fakulti Bioteknologi dan Sains Biomolekul/ Faculty of Biotechnology and Biomolecular Sciences
5	British Chevening Scholarships: Royal Society Malaysia Fellowship, 2005/06	The British Government	<ol style="list-style-type: none"> 1. Prof. Madya Dr. Mohd. Sofian Omar Fauzee Fakulti Pengajian Pendidikan/ Faculty of Educational Studies 2. Prof. Madya Dr. Ir Mohd. Sapuan Salit Fakulti Kejuruteraan/ Faculty of Engineering 3. Prof. Madya Dr. Mohd. Basyaruddin Abdul Rahman Fakulti Sains/ Faculty of Science

NO. NO.	FELLOWSHIP/BIASISWA FELLOWSHIP/SCHOLARSHIP	PENGANJUR SPONSOR	NAMA CALON NAME OF CANDIDATES
			4. Pn. Nurul Amziah Md. Yunus Fakulti Kejuruteraan/ Faculty of Engineering 5. Dr. Phebe Ding Fakulti Pertanian/ Faculty of Agriculture 6. Prof. Madya Dr. Shattri Mansor Institut Teknologi Maju/ Institute of Advanced Technology
6	2005 JAL Scholarship Programme	Japan Airline System	1. Cik Nurhidayah Roslan Fakulti Bioteknologi dan Sains Biomolekul/ Faculty of Biotechnology and Biomolecular Sciences 2. Cik Lee Yuan Fakulti Bahasa Moden dan Komunikasi/ Faculty of Modern Languages and Communication
7	Sultan Qaboos Prize for Environmental Preservation 2005	UNESCO	3. Prof. Madya Dr. Mohd. Nasir Hassan Fakulti Pengajian Alam Sekitar/Faculty of Environmental Studies
8	Celebration of The World Science Day: Nomination of Science Prizes <ul style="list-style-type: none"> • UNESCO Prizes • Carlos J. Finlay Prizes for Microbiology • Javed Hussein Prize for Young Scientists • Kalinga Prize for the Popularization of Science 	UNESCO	1. Prof. Dr. Mohd. Zobir Hussein Institut Teknologi Maju/ Institute of Advanced Technology 2. Prof. Madya Dr. Raja Noor Zaliha Raja Abd. Rahman Fakulti Bioteknologi dan Sains Biomolekul/ Faculty of Biotechnology and Biomolecular Sciences

NO. NO.	FELLOWSHIP/BIASISWA FELLOWSHIP/SCHOLARSHIP	PENGANJUR SPONSOR	NAMA CALON NAME OF CANDIDATES
			3. Prof. Datin Dr. Khatijah Mohd. Yusoff Fakulti Bioteknologi dan Sains Biomolekul / Faculty of Biotechnology and Biomolecular Sciences 4. Dr. Yap Chee Kong Fakulti Sains/ Faculty of Science 5. Dr. Irmawati Ramli Fakulti Sains/ Faculty of Science 6. Dr. Lim Kean Pah Fakulti Sains/ Faculty of Science
9	Group of 77 Award for Science, Technology and Innovation	United Nation, New York & TWAS	1. Prof. Madya Ir. Dr. Husaini Omar Fakulti Kejuruteraan/ Faculty of Engineering 2. Prof. Madya Dr. Ishak Aris Fakulti Kejuruteraan/ Faculty of Engineering 3. Prof. Dr. Yaakob Che Man Fakulti Sains dan Teknologi Makanan/ Faculty of Food Science and Technology
10	Assurance of Food Safety and Quality Control II	The Government of Japan & Japan International Cooperation Agency (JICA)	1. Dr. Farinazleen Mohamad Ghazali Fakulti Sains dan Teknologi Makanan / Faculty of Food Science and Technology



NO. NO.	FELLOWSHIP/BIASISWA FELLOWSHIP/SCHOLARSHIP	PENGANJUR SPONSOR	NAMA CALON NAME OF CANDIDATES
			2. Nor Khaizura Mahmud @Ab. Rashid Fakulti Sains dan Teknologi Makanan / Faculty of Food Science and Technology 3. Ismail Fitry Mohamad Rashedi Fakulti Sains dan Teknologi Makanan / Faculty of Food Science and Technology
11	New Zealand International Doctoral Research Scholarships	New Zealand Government	1. Juwaidah Sharifuddin Fakulti Pertanian / Faculty of Agriculture 2. Siti Zaharah Sakimin Fakulti Pertanian / Faculty of Agriculture 3. Zaidah Mustafa Fakulti Ekonomi dan Pengurusan / Faculty of Economics & Management
12	ACU Titular Fellowships 2005/06	Association of Commonwealth Universities (ACU)	Dr. Abdul Jalil Nordin Fakulti Perubatan & Sains Kesihatan/ Faculty of Medicine & Health Science
13	British Academy /ACU Grants for International Collaboration	Association of Commonwealth Universities (ACU)	Prof. Dr. Ahmad Zubaidi Baharumshah Fakulti Ekonomi dan Pengurusan / Faculty of Economics & Management
14	12th Jubilee International Post Graduate Scholarship	The University of Otago	Shahrul Ainliah Alang Ahmad Fakulti Sains / Faculty of Science

NO. NO.	FELLOWSHIP/BIASISWA FELLOWSHIP/SCHOLARSHIP	PENGANJUR SPONSOR	NAMA CALON NAME OF CANDIDATES
15	JSPS Ronpaku (Dissertation PhD) FY 2005	JSPS	Nor Azlin Ismail Fakulti Ekonomi dan Pengurusan / <i>Faculty of Economics & Management</i>
16	19th KHWARIZMI International Award	The Iranian Research Organization	<ol style="list-style-type: none"> 1. En. Rusli Hj Abdullah Fakulti Sains Komputer dan Teknologi Maklumat / <i>Faculty of Computer Science & Information Technology</i> 2. Prof. Dr. Mahiran Basri Faculty of Medicine & Health Sciences / <i>Faculty of Medicine & Health Science</i>
17	British Chevening Scholarships: Malaysia Programme	The British Council, Kuala Lumpur	<ol style="list-style-type: none"> 1. Mohd. Faiz Yahaya Fakulti Rekabentuk & Senibina/ <i>Faculty of Design & Architecture</i> 2. Saiful Hasley Ramli Fakulti Rekabentuk & Senibina/ <i>Faculty of Design & Architecture</i> 3. Manraj Singh Cheema Fakulti Perubatan & Sains Kesihatan / <i>Faculty of Medicine & Health Science</i> 4. Badrul Azhar Md. Sharif Fakulti Perhutanan/ <i>Faculty of Forestry</i> 5. Syari Jamian Fakulti Perhutanan/ <i>Faculty of Forestry</i>

NO. NO.	FELLOWSHIP/BIASISWA FELLOWSHIP/SCHOLARSHIP	PENGANJUR SPONSOR	NAMA CALON NAME OF CANDIDATES
			<p>6. Siti Salina Salim Fakulti Bahasa Moden dan Komunikasi / <i>Faculty of Modern Language & Communication</i></p> <p>7. Moniza Waheed Fakulti Bahasa Moden dan Komunikasi / <i>Faculty of Modern Language & Communication</i></p> <p>8. Shahrul Ainliah Alang Ahmad Fakulti Sains / <i>Faculty of Science</i></p> <p>9. Siti Fatimah Mohamad Fakulti Sains Makanan dan Teknologi/ <i>Faculty of Food Science & Technology</i></p> <p>10. Wan Asrina Wan Yahaya Fakulti Pertanian & Sains Makanan (UPM Kampus Bintulu)/ <i>Faculty of Agriculture & Food Science (UPM Bintulu Campus)</i></p>
18	Endeavour Malaysia Awards Endeavour Malaysia Research Fellowship	Australian Government	<p>1. Siti Suriawati Isa Fakulti Ekonomi & Pengurusan / <i>Faculty of Economics & Management</i></p> <p>2. King Hwa Ling Fakulti Perubatan & Sains Kesihatan / <i>Faculty of Medicine & Health Science</i></p> <p>3. Moniza Waheed Fakulti Bahasa Moden dan Komunikasi / <i>Faculty of Modern Language & Communication</i></p>

NO. NO.	FELLOWSHIP/BIASISWA FELLOWSHIP/SCHOLARSHIP	PENGANJUR SPONSOR	NAMA CALON NAME OF CANDIDATES
			4. Nor Erne Nazira Bazin Fakulti Pertanian / <i>Faculty of Agriculture</i> 5. Norazhar Anas Fakulti Pertanian / <i>Faculty of Agriculture</i>
19	Commonwealth Scholarships Tenable in the United Kingdom 2006 - Split Site Doctoral Scholarships	Commonwealth Scholarship Commission	1. Wan Nurhayati Wan Ab. Rahman Fakulti Sains Komputer dan Teknologi Maklumat / <i>Faculty of Computer Science & Information Technology</i> 2. Roziah Mohd Rasdi Fakulti Pengajian Pendidikan/ <i>Faculty of Educational Studies</i>
20	Canadian Commonwealth Scholarship and Fellowship Program 2006-2007	The Canadian Commonwealth Scholarship Program	1. Kong Chee Sing Fakulti Pertanian / <i>Faculty of Agriculture</i> 2. Ariff Khalid Fakulti Sains dan Teknologi Makanan/ <i>Faculty of Food Science & Technology</i> 3. Siti Zaharah Sakiman Fakulti Pertanian / <i>Faculty of Agriculture</i>

NO. NO.	FELLOWSHIP/BIASISWA FELLOWSHIP/SCHOLARSHIP	PENGANJUR SPONSOR	NAMA CALON NAME OF CANDIDATES
			4. Martini Mohamad Yusoff Fakulti Pertanian / <i>Faculty of Agriculture</i> 5. Nor Afizah Mustapha Fakulti Sains dan Teknologi Makanan / <i>Faculty of Food Science</i> <i>and Technology</i> 6. Wan Zunairah Wan Ibadullah Fakulti Sains dan Teknologi Makanan / <i>Faculty of Food Science</i> <i>and Technology</i>
21	The MEXT 21st Century COE (Center of Excellence) Program	Nagaoka University of Technology, Japan	Kong Chee Sing Fakulti Pertanian / <i>Faculty of Agriculture</i>
22	Asian Scholarship Foundation	Asian Scholarship Foundation	Dr. Nurdeng Deuraseh Fakulti Ekologi Manusia/ <i>Faculty of Human</i> <i>Ecology</i>
23	DAAD Fellowships 1. Leibniz-DAAD-Scholarships 2. Helmholtz-DAAD-Fellowships	The German Academic Exchange Service (DAAD)	Eris Elianddy Fakulti Kejuruteraan / <i>Faculty of Engineering</i>
24	The Holberg International Memorial Prize 2006	The Board of the Ludving Holberg Memorial Fund	Prof. Dr. Ahmad Zubaidi Baharumshah Fakulti Ekonomi & Pengurusan/ <i>Faculty of Economics &</i> <i>Management</i>
25	AMASE-MASTER	European School of Materials Science and Engineering (EEIGM)	Shahrul Ainliah Alang Ahmad Fakulti Sains / <i>Faculty of Science</i>

D) Memorandum Persefahaman

Beberapa jalinan dan hubungan kerjasama dengan institusi luar negara terutamanya yang melibatkan industri dan institusi yang lebih terkedepan telah berjaya dimeterai. Kerjasama ini meliputi bidang pengajaran, pembelajaran, penyelidikan dan pembangunan teknologi. Selain daripada tujuan pengajaran, pembelajaran dan penyelidikan, kerjasama ini juga untuk memperkukuh citra universiti di peringkat global.

Bagi memperkukuhkan kerjasama antara universiti dan institusi dari luar negara, UPM telah menandatangani dan memperbaharui sebanyak 27 Memorandum Persefahaman (MOU) dengan beberapa institusi/agensi/badan di dalam atau luar negara dalam bidang akademik dan penyelidikan pada tahun 2005 iaitu:-

Jadual 1.2: Memorandum Persefahaman

BIL	INSTITUSI/AGENSI/BADAN DALAM & LUAR NEGARA	TARIKH TANDATANGAN
1	The Origin Foods Sdn Bhd.	7 Mac 2005
2	The Forestry Department of CIRAD & Center for International Forestry Research (CIFOR)	1 Jun 2005
3	Lincoln University, Canterbury, New Zealand	6 Julai 2005
4	Majlis menandatangani MOU antara Imperial College London, UM, UKM, USM, UPM & UTM	11 Julai 2005
5	Prince of Songkla University, Thailand	15 September 2005
6	University of Tehran, Iran	
7	Majlis menandatangani MOU UPM dengan 13 buah syarikat (Lifelong Learning Academy Sdn. Bhd., Tapak Intelek Sdn. Bhd., Sugeharat (Malaysia) Sdn. Bhd., Institut Kota Melaka, Kolej Teras Timur, Kas Management and Services, AIM Consultants, Putera Education Centre, Pusat Minda Cemerlang, Education and Training, Professional Mgt, Miri Maxcel Hotel Management Institute, Kolej Poly Tech MARA)	8 Februari 2005
8	Majlis menandatangani MoA/MOU Akademi Sukan UPM dengan Time Dot.Com	25 Feb 2005
9	Majlis menandatangani MOU antara UPM dengan Kesatuan Rarbi	7 Mac 2005
10	Majlis menandatangani MOU antara UPM dan Dumex (Malaysia) Sdn. Bhd.	25 Mac 2005

D) Memorandum of Understanding

UPM had fostered close ties and co-operative relationships by successfully signing several Memorandum of Understanding (MOUs) with various industrial, public and private sectors including foreign institutions particularly those which were more advanced. Such cooperation involved all areas of teaching, learning, research and technological development. Besides these, such cooperation also raised the University's stature at the global level.

In 2005, in its efforts to further strengthen cooperation with other foreign institutions, the university has signed and/or renewed 27 MOUs with several institutions/agencies/bodies locally and internationally in academic and research areas. They were:-

Schedule 1.2: Memorandum of Understanding

NO.	LOCAL & FOREIGN INSTITUTIONS/AGENCIES/BODIES	DATE SIGNED
1	The Origin Foods Sdn Bhd.	7 March 2005
2	The Forestry Department of CIRAD & Center for International Forestry Research (CIFOR)	1 June 2005
3	Lincoln University, Canterbury, New Zealand	6 July 2005
4	MOU signing ceremony between Imperial College, London and UM, UKM, USM, UPM & UTM	11 July 2005
5	Prince of Songkla University, Thailand	15 September 2005
6	University of Tehran, Iran	15 September 2005
7	UPM MOU signing ceremony with 13 corporations (Lifelong Learning Academy Sdn. Bhd., Tapak Intelek Sdn. Bhd., Sugeharat (Malaysia) Sdn. Bhd., Institut Kota Melaka, Kolej Teras Timur, Kas Management and Services, AIM Consultants, Putera Education Centre, Pusat Minda Cemerlang, Education and Training, Professional Mgt, Miri Maxcel Hotel Management Institute, Kolej Poly Tech MARA)	8 February 2005
8	UPM Sports Academy MOA/MOU signing ceremony with Time Dot.Com	25 February 2005
9	MOU signing ceremony between UPM and Kesatuan Rarbi	7 March 2005
10	MOU signing ceremony between UPM and Dumex (Malaysia) Sdn. Bhd.	25 March 2005

BIL	INSTITUSI/AGENSI/BADAN DALAM & LUAR NEGARA	TARIKH TANDATANGAN
11	Majlis menandatangani MOU UPM dengan JASA	22 April 2005
12	Majlis menandatangani MOU antara UPM dan Syarikat INS Bioscience Bhd.	April 2005
13	Majlis menandatangani MOU antara UPM dengan Golden Hope	16 Julai 2005
14	Majlis menandatangani MOA antara UPM dan Golden Hope Plantation Sdn. Bhd.	17 Oktober 2005
15	Majlis menandatangani MOU antara Institut Biosains dan Persatuan Peladang negeri Pahang	18 Oktober 2005

Pengurusan Proses Berkualiti

Pada tahun 2005, beberapa pusat tanggungjawab telah mendapat pensijilan ISO 9000: 2000. Antaranya ialah

Fakulti Perhutanan, Fakulti Sains dan Teknologi Makanan dan Perpustakaan Sultan Abdul Samad.



NO.	LOCAL & FOREIGN INSTITUTION/AGENCIES/BODIES	DATE SIGNED
11	MOU signing ceremony between UPM and JASA	22 April 2005
12	MOU signing ceremony between UPM and Syarikat INS Bioscience Bhd.	April 2005
13	MOU signing ceremony between UPM and Golden Hope	16 July 2005
14	MOU signing ceremony between UPM and Golden Hope Plantation Sdn. Bhd.	17 October 2005
15	MOU signing ceremony between Institute Bioscience and Persatuan Peladang Negeri Pahang	18 October 2005

QUALITY MANAGEMENT PROCESS

In 2005, several centres of responsibility and faculties such as the Faculty of Forestry, Faculty of Food

Science and Technology and the Sultan Abdul Samad Library successfully obtained their ISO 9000: 2000 certification.



Jadual 1.3. MS ISO 9001 : 2000 Pensijilan Fakulti/Pusat/Institut/Sekolah/Akademik/Bahagian

BIL	FAKULTI/PUSAT/INSTITUT/ SEKOLAH/BAHAGIAN	TAHUN PENSIJILAN	SKOP
1	Perhutanan	2005	Perkhidmatan pengajaran dan pembelajaran program bachelor, siswazah dan perkhidmatan penyelidikan
2	Sains dan Teknologi	2005	Perkhidmatan pengajaran dan pembelajaran program Makanan bachelor
3	Perpustakaan	2005	Perkhidmatan perpustakaan Sultan Abdul Samad
4	Ekonomi dan Pengurusan	2004	Perkhidmatan pengajaran dan pembelajaran program bachelor, siswazah dan perkhidmatan penyelidikan
5	Ekologi Manusia	2004	Perkhidmatan pengajaran dan pembelajaran peringkat diploma dan bachelor
6	Pendaftar	2004	Perkhidmatan sumber manusia (semua)
7	Pusat Kesihatan Mahasiswa	2004	Perkhidmatan kesihatan dan pergigian
8	Pertanian	2003	Perkhidmatan pembelajaran dan pengajaran program bachelor
9	Sains	2003	Perkhidmatan pengajaran dan pembelajaran program bachelor, siswazah dan penyelidikan
10	Keselamatan	2003	Perkhidmatan keselamatan
11	Perubatan Veterinar	2000	Perkhidmatan pengajaran dan pembelajaran program bachelor, siswazah dan penyelidikan
12	Kejuruteraan	2001	Perkhidmatan pengajaran dan pembelajaran program Bachelor Kejuruteraan

Schedule 1.3 MS ISO 9001 : 2000 Certification of Faculty/Centre/Institute/School/Academy/Division

NO	FACULTY/CENTRE/ INSTITUTE/SCHOOL/DIVISION	YEAR OF CERTIFICATION	SCOPE
1	Forestry	2005	Teaching and Learning Services of bachelor, graduate and research programme
2	Food Science and Technology	2005	Teaching and Learning Services of bachelor programme
3	Sultan Abdul Samad Library	2005	Library Services
4	Economics and Management	2004	Teaching and Learning Services of bachelor, graduate and research programme
5	Human Ecology	2004	Teaching and Learning services at diploma and bachelor level
6	Registry	2004	Human resource services (all)
7	Student Health Centre	2004	Health and dental services
8	Agriculture	2003	Teaching and learning services of bachelor programme
9	Science	2003	Teaching and Learning Services of bachelor, graduate and research programme
10	Security	2003	Security services
11	Veterinary Science	2000	Teaching and Learning Services of bachelor, graduate and research programme
12	Engineering	2001	Teaching and Learning Services of bachelor of engineering programme

PERANCANGAN STRATEGIK DAN TADBIR URUS YANG TELUS

a. Kemudahan ICT

Antara kemudahan terkini ICT di dalam kampus ialah Projek Sistem Kamera Litar Tertutup (CCTV) di UPM (fasa 1) yang melibatkan Kompleks Bangunan Pentadbiran telah berjaya dibangunkan dengan 48 kamera beroperasi sepenuhnya penghujung tahun 2005. Bilik pengawalan berpusat (MCC) yang lengkap untuk pengawalan CCTV ini telah diletakkan di Bahagian Keselamatan. Dengan sokongan kemudahan ini bermakna UPM bersedia untuk menghadapi sebarang masalah yang mungkin terjadi dan menjadikan UPM lebih terancang dengan adanya kemudahan yang terbaharu ini.



b. Pelan Integriti Nasional (PIN)

Objektif umum PIN ialah untuk merealisasikan hasrat Wawasan 2020, iaitu menjadi sebuah negara maju menurut acuan sendiri dengan “membentuk sebuah masyarakat yang kukuh ciri-ciri moral dan etikanya, dengan para warganya mempunyai nilai keagamaan dan kerohanian yang utuh, dan ditunjangi oleh budi pekerti yang luhur.

UPM juga tidak ketinggalan di dalam melaksanakan PIN, dimana beberapa aktiviti telah dilaksanakan untuk mencapai hasrat PIN. Antara aktiviti utama ialah dengan menjemput Pengarah Institut Integriti Malaysia untuk memberi taklimat mengenai PIN dan bagaimanakah ia dapat dijayakan. Taklimat ini telah diadakan di PKKSAASS dan dihadiri oleh staf UPM. Hasil daripada taklimat ini diharap memberi kesedaran kepada staf UPM dan penjelasan secara terperinci apakah maksud Pelan Integriti Nasional ini dan diharap dapat membantu masyarakat UPM lebih berintegriti.



STRATEGIC PLANNING AND TRANSPARENT GOVERNMENT

a. ICT Facility

Among the latest facilities in the campus was the Closed Circuit Televisyen System Project (CCTV) (Phase I) at the Administration Building Complex. The system which had 45 cameras became fully operational at the end of year 2005. The fully equipped centralised monitoring system (CMS) for the CCTV project was located in the Security Division. UPM is now in a position to confront any security problem and was well-prepared with this additional facility.

b. National Integrity Plan (PIN)

The general objective of PIN was to realise the goal of vision 2020, which was to "become a developed nation in the mould of its own by creating a society with moral and ethical characteristics and its members possessing sound religious and spiritual values based on noble characteristics".

UPM had not lagged in implementing PIN. Indeed, it had conducted various activities in the effort to achieve the goal of PIN. The main activities included the invitation of the Director of Malaysian Institute of Integrity to a briefing on PIN and on how to make the plan successful. The briefing was held at PKKSSAAS and attended by UPM staff. Hopefully, the briefing would have raised the awareness of UPM staff on the National Integrity Plan and thus help them embrace and practise integrity.



Aktiviti PIN di UPM

BIL	PROGRAM / AKTIVITI	MATLAMAT
1.	Majlis Perhimpunan Pegawai UPM-Fitness Walk di Ladang UPM, MEADOW (10km)	Memperkukuh semangat kekitaan dan kerjasama serta hubungan silaturahim antara staf UPM dan melahirkan staf yang sihat dan berintegriti.
2.	Majlis Perhimpunan Pegawai UPM di PKKSSAAS UPM. Satu taklimat mengenai Pelan Integriti Nasional telah disampaikan oleh Pengarah Institut Integriti Malaysia.	Memberi penerangan mengenai pengurusan integriti kepada semua pegawai UPM.
3.	Majlis Penyerahan Bendera Kontinjen Sukan Staf di Dewan Persidangan Pusat Pendidikan Luar. Sukan staf berlangsung dari 14 Mei hingga 21 Mei 2005.	Memberi sokongan padu kepada kontinjen UPM untuk bertanding di Universiti Malaya serta membentuk satu warga UPM yang sihat dan berdisiplin, malah menjadi pengerat perpaduan antara staf UPM.
4.	Majlis Perhimpunan Pegawai dan senamrobik di Stadium UPM.	Menggalakkan dan mendorong amalan senaman yang sihat di kalangan staf UPM.



National Integrity Plan Activities at UPM

NO.	PROGRAMMES/ACTIVITIES	OBJECTIVES
1.	UPM officers gathering-Fitness Walk at UPM Plantation, Meadow (10KM)	To strengthen the spirit of cooperation, solidarity and brotherhood among UPM staff and develop a healthy staff with integrity.
2.	Assembly of UPM Staff at PKKSSAAS, UPM. A briefing by the Director of Malaysian Institute of Integrity on the National Integrity Plan	To provide information on integrity management to all UPM staff.
3.	Handing over of flag to Staff Sports Contingent at the Conference Hall, Centre for Education from 14-21 May 2005.	To provide total support to UPM contingent which competed at University Malaya and to create a UPM community which was healthy and disciplined as well as to strengthen unity among UPM staff.
4.	Gathering of UPM Officers and Aerobics at the UPM Stadium.	To support and encourage healthy practice of sports among UPM staff.



c. Jawatankuasa Pepandu/Penasihat

OSHA bermula tahun 2005-Pihak Pengurusan Universiti mengambil serius aspek keselamatan dan kesihatan pekerjaan. UPM mempunyai visi dan misi yang jelas dalam isu keselamatan dan kesihatan pekerjaan. Matlamat 4 dan 5 Pelan Strategi UPM jelas menunjukkan universiti untuk mewujudkan persekitaran kerja yang kondusif dan ini termasuklah memastikan aspek keselamatan dan kesihatan pekerjaan yang melibatkan warga UPM diberi keutamaan. Komitmen pihak pengurusan telah dibuktikan dengan pelancaran Dasar Keselamatan dan Kesihatan UPM oleh Naib Canselor pada 25 Mac 2005.

d. Khidmat Pelanggan

Pihak Pengurusan UPM sentiasa mengambil berat kepada aspek kepuasan pelanggan dalam usaha memantapkan sistem pengurusan berkualiti dalam pelaksanaan semua perkhidmatan di samping memberi kemudahan kepada pengguna. Oleh itu beberapa siri Hari Khidmat Pelanggan telah diadakan di dalam mahu pun di luar UPM.

e. KM Portal (Pengurusan Ilmu)

UPM KM portal bertujuan untuk menyediakan satu pengkalan data ilmu korporat yang mampu menyokong penggunaan harta intelek universiti secara efektif. UPM KM Portal diletakkan di bawah tanggungjawab Pusat Pembangunan Akademik (CADE).

Secara amnya, UPM KM Portal mampu:

- Menyediakan infrastruktur untuk meningkatkan pendepositan, perkongsian dan penjanaan ilmu, sama ada dalam bentuk eksplisit dan taksit
- Menyusun atur ilmu dengan menggunakan sistem taksonomi untuk memudahkan proses pencarian dan mengenal pasti ilmu.
- Menyediakan platform untuk menggalakkan kolaborasi antara individu atau kumpulan.
- Menyediakan aplikasi aliran kerja
- Membantu menyediakan penyediaan laporan mengenai ilmu, kepakaran dan lain-lain.

f. Siri Syarahan Awam Tadbir Urus

Pada 5 Julai 2005, satu siri syarahan awam telah disampaikan oleh Y.Bhg Tan Sri Dr Hadenan bin A. Jalil, Ketua Audit Negara. Beliau telah memberikan syarahan awam bertajuk "Tadbir Urus yang baik ke arah kecemerlangan" kepada warga UPM di Dewan Persidangan Pusat Pendidikan Luar.

Fokus syarahan tersebut meliputi kepentingan tadbir urus yang baik kepada sektor awam, definisi dan konsep tadbir urus dan sumbangan auditan terhadap tadbir urus sektor awam.

g. Anugerah Kualiti

Pelbagai usaha telah dijalankan untuk menjadikan UPM sebuah universiti bertaraf dunia antaranya ialah dengan menyertai pelbagai pertandingan dari segi pengurusan anjuran pelbagai pihak swasta dan kementerian. Antaranya anjuran Jabatan Perdana Menteri seperti AKPM, AIPB, AIPA dan lain-lain.

c. Steering and Advisory Committee

OSHA began in 2005. The University Management had been giving serious consideration to occupational health and safety issues. UPM had clear vision and mission on issues of occupational health and safety. The 4th and 5th Goals of the UPM Strategic Plan clearly stated the University's commitment to create a conducive working environment. This includes giving emphasis to occupational health and safety aspects of the UPM staff. The University management's commitment to occupational health and safety was proven with the launching of the UPM Safety and Health Policy by the Vice Chancellor on 25 May 2005.

d. Customer Service

UPM Management continuously took effective measures to ensure customer satisfaction in its effort to consolidate the Quality Management System in all its services while providing facilities to the customers. A series of Customer Service Day had been organised both inside and outside of UPM.

e. Knowledge Management (KM) Portal

The purpose of UPM KM Portal was to provide a corporate knowledge database that was capable of supporting the effective usage of intellectual property. UPM KM Portal was managed by the Centre for Academic Development (CADE).

In general, the UPM KM Portal was able to:

- Provide infrastructure to raise the level

of deposition, sharing and to produce knowledge whether explicitly or tacitly.

- Organise knowledge using the taxonomy system in order to facilitate the process.
- Provide a platform for collaboration between individuals or groups
- Provide a workflow application
- Assist in the preparation of reports on knowledge, expertise etc.

f. Public Governance Lecture Series

On 5th July 2005, a public lecture was delivered by His Excellency Tan Sri Dr.Hadenan bin A. Jalil, the Auditor General. The lecture on "Good Governance towards Excellence" was held at the Conference Hall, Centre for External Education for the benefit of UPM staff.

He amplified the importance of good governance to the public sector, the definition and concept of governance, and the contribution of auditing to public sector governance.

g. Quality Award

Various efforts had been implemented to ensure UPM became a World Class University. One of the ways had been to participate in management competitions such as AKMP, AIPB, AIPA and others organised by the private sector and the ministry including the Prime Minister's Department.

h. Quality Day/Q-Day

Apart from the Customer Service Day and the Lecture Series which had been held, there was also the Quality Day or

h. Hari Kualiti/Hari Q

Selain daripada Hari Khidmat Pelanggan dan siri-siri syarahan yang diadakan, tidak ketinggalan juga Hari Kualiti atau lebih dikenali sebagai Hari Q. Antara yang terlibat dalam mengadakan Hari Q ini adalah Taman Pertanian Universiti pada 23 Februari 2005 dan Fakulti Sains pada 29 November 2005.

i. Kempen Budi Bahasa dan Nilai-nilai Murni Peringkat UPM

Kempen Budi Bahasa dan Nilai-nilai Murni peringkat UPM telah dilancarkan pada 4 Julai 2005 di UPM. Kempen ini telah dirasmikan oleh YB Datuk Seri Utama Dr. Rais Yatim, Menteri Kebudayaan, Kesenian & Warisan di Dewan Besar UPM yang dihadiri seramai 6,000 orang termasuk staf dan pelajar UPM. Dengan bermulanya kempen ini, diharapkan sifat budi bahasa dan nilai-nilai murni dapat diterapkan ke dalam minda para staf dan pelajar agar berbudi bahasa dan mempunyai budi pekerti yang tinggi.

TEKNOLOGI MAKLUMAT DAN KOMUNIKASI

Universiti Putra Malaysia (UPM) menggariskan Matlamat Ke-6 Pelan Strategi UPM 2001-2010 untuk membudayakan teknologi maklumat dan komunikasi (ICT) melalui e-penggunaan dan kemudahan ICT dalam kampus.

a. Infrastruktur dan Rangkaian

Bahagian Teknologi Maklumat (BTM) bertanggungjawab merancang, membangun dan melaksanakan dasar-dasar ICT seperti mana yang telah diperuntukkan di bawah Dasar ICT UPM. BTM menyediakan

kemudahan perkhidmatan Sokongan ICT bagi membantu pengajaran dan penyelidikan dalam penggunaan teknologi maklumat. BTM juga bertanggungjawab menyediakan dan menguruskan rangkaian UPMnet, pelayan-pelayan komputer serta menyelenggara perkakasan dan peralatan komputer termasuk instalasi perisian bagi seluruh kampus UPM.

Sepanjang tahun 2005 penyelenggaraan infrastruktur ICT telah dijalankan secara menyeluruh dan juga melibatkan beberapa projek naik taraf atau pembangunan infrastruktur ICT seperti berikut:

- Projek penyelenggaraan beberapa komponen utama Rangkaian UPMnet telah dijalankan untuk memastikan penyelenggaraan khususnya yang melibatkan alat ganti dan kepakaran dapat diperolehi dengan cepat.
- Pelaksanaan kontrak penyelenggaraan SunSpectrum Silver telah dilaksanakan mengikut jadual yang ditetapkan dengan melibatkan penyelenggaraan ke atas 7 buah server utama Universiti iaitu server SAGA, HRM, SSMP, EK, EAIUPM, PSP dan FAMSDB
- Projek naik taraf beberapa peralatan rangkaian sistem pemantauan rangkaian, server pengurusan IP (DHCP) backup, sistem cache capaian dari luar ke dalam (re-cache) dan beberapa 'tool' membantu penyelenggaraan
- Pembangunan atau naik taraf sambungan rangkaian UPMnet ke bangunan baru PTJ telah dijayakan seperti berikut :
 - Fakulti Bioteknologi dan Sains Biomolekul
 - Fakulti Perhutanan

popularly referred to as the Q-Day. Among the bodies which were involved in the Q-Day were the University Agriculture Park on 23 February 2005 and the Faculty of Science on 29 November 2005.

i. Courtesy and Noble Values Campaign at UPM Level

This campaign was launched by YB Datuk Seri Utama Dr.Rais Yatim, the Minister of Culture, Arts and Heritage on 4 July 2005 at the Main Hall, UPM and was attended by 6,000 participants including UPM staff and students. It was hoped that with this campaign, noble values and moral characteristics would be inculcated in the minds of the staff and students so that they would be more refined and possess good character.

INFORMATION COMMUNICATION TECHNOLOGY (ICT)

UPM had outlined as its 6th Goal of the Strategic Plan 2001-2006 the desire to inculcate an information and technology culture through e-University. Towards achieving this goal, UPM continuously strived to enhance efficient use of the ICT facilities of the campus.

a. Infrastructure and Network

The Information Technology Division (BTM) was responsible for planning, developing and implementing the ICT policies under the UPM ICT Policy. BTM provided ICT support service in teaching and research activities in the use of Information Technology. BTM was also responsible to provide and manage the

UPMnet, the computer-users and the maintenance of the equipment and tools including the software installation throughout the UPM campus.

Throughout 2005, the maintenance of ICT infrastructure were conducted holistically and it involved a few upgrading projects of ICT infrastructure development namely:

- Maintenance Project of several main components of UPMnet were conducted to ensure effective maintenance particularly to ensure spare-parts and expertise can be obtained speedily.
- Sun Spectrum Silver maintenance control was implemented according to schedule involving maintenance of servers such as SAGA, HRM, SSMP, EK, EAIUPM, PSP and FAMSDB.
- Upgrading of several network monitoring equipment, IP (DHCP) backup server management, cache, re-cache system and other maintenance tools.
- Development or upgrading of UPMnet network connection to new CR building had been successfully carried out as follows:
 - Faculty of Biotechnology and Biomolecular Sciences
 - Faculty of Forestry
 - Faculty of Medicine (9th Floor, Grand Season Hotel)
 - Centre for Career and Alumni Services
 - Faculty of Modern Languages and Communication
 - Agrobio
 - Kampung Baru Hostel (Faculty of Medicine)

- Fakulti Perubatan (Grand Season Hotel Tingkat 9)
- Pusat Perkhidmatan Kerjaya dan Alumni
- Fakulti Bahasa Moden dan Komunikasi
- Argobio
- Asrama Kampung Baru (Fakulti - Institut Makanan Halal dan Institut Multimedia dan Perisian di Infoport

Naik taraf *gateway* UPMnet dengan pemisahan network antara SFARM dan DMZ serta membuat pertukaran IP server-server di Data Center kepada private IP mengikut klasifikasi SFARM, DMZ dan UPMNet.

b. Sistem Kamera Litar Tertutup (CCTV)

Projek Sistem Kamera Litar Tertutup (CCTV) di UPM Fasa 1 yang melibatkan Kompleks Bangunan Pentadbiran telah berjaya dibangunkan dengan 48 kamera beroperasi sepenuhnya pertengahan 2005. Bilik pengawalan berpusat (MCC) yang lengkap untuk pengawalan CCTV ini telah diletakkan di Bahagian Keselamatan.

c. 'Putra Student Portal' (PSP)

Aplikasi 'Putra Student Portal' yang baru telah dibangunkan tanpa berlandaskan platform Oracle Portal dan telah dilaksanakan di server baru Portal yang telah disetupkan dengan kerjasama pihak UPM sahaja. Akses dari luar akan dilaksanakan selepas demo dibuat kepada Bahagian Hal Ehwal Mahasiswa, Akademik dan Bendahari.

FAMS

Sistem Pengurusan Aset Tetap (FAMS) bertujuan untuk mengesan dan memantau sesuatu kitar hayat penggunaan dan penempatan lokasi sesuatu aset di UPM. Sistem FAMS juga dihubungkan dengan Sistem SAGA melalui *interface* yang telah digunakan oleh semua staf yang terlibat dengan jayanya lebih daripada 1 tahun. Kini, sistem FAMS menggunakan aplikasi *Hardcat Fixed Management System Release 3.25A* untuk UPM Serdang dan Bintulu.

e. Sistem e-Pembelajaran (e-Sprint)

UPM telah menyediakan sistem e-Pembelajaran yang berasaskan web iaitu Kelas Maya dan Sistem e-Sprint (Sistem Pengurusan Rangkaian Integrasi Nota Kuliah dalam Talian). Sehingga kini, lebih daripada 700 kursus di UPM termasuk Program Jarak Jauh (PJJ) telah menggunakan sistem ini yang mana ianya telah dinaik taraf kepada versi 2.0. Versi 2.0 ini menggunakan platform Perl CGI. Sistem pengurusan e-Sprint telah berjaya meraih pingat gangsa di Pameran ITEX 2005.

f. E-Klinik

Sistem ini telah digunakan sepenuhnya oleh Pusat Kesihatan Mahasiswa setahun yang lalu yang mana ianya menggunakan platform web dan digunakan secara menyeluruh untuk perkhidmatan rawatan kepada pesakit dan pengguna klinik. Pada tahun 2005, server pengkalan data sistem e-Klinik telah dinaik taraf dan server aplikasi sistem telah diasingkan dari server pengkalan data.

- Institute of Halal Food and Institute of Multimedia and Software at Infoport

- The upgrading of UPMnet gateway with separation of network between SFARM and DMZ including IP server. Server exchange at the Data Centre to Private IP according SFARM, DMZ and UPMnet classification.

b. Closed Circuit TV (CCTV) System

The UPM Closed Circuit TV (CCTV) System Project, Phase I involving the Administration Building Complex had been successfully installed with 48 cameras operating at the end of year 2005. The Centralised Control Room which was fully equipped for CCTV Control was situated at the Security Division.

c. Putra Student Portal (PSP)

The new Putra Student Portal (PSP) application which was not based on the Oracle Portal platform had been developed and implemented at the new Portal Server set up with the assistance of MIR. At the moment, PSP can only be accessed within the UPM Campus. Access from outside the campus will be implemented after demonstration had been made to the Student Affairs Division, Academic Division and the Bursary.

d. FAMS

The purpose of the Fixed Assets Management System (FAMS) was to trace and monitor the life cycle of the usage and the location of any one asset in UPM. FAMS was also connected to the SAGA System through the interface which has been successfully used by the UPM staff more than a year. Currently, the FAMS used the Hardcat Fixed Management System Release 3.25A at the Serdang and Bintulu Campus.

e. E-Learning System (E-Sprint)

UPM had provided the e-learning system known as Virtual Classes and the e-Sprint System (System of Management of the Integration of Lecture Notes Online) which was net-based. Currently, more than 700 courses including the Distance Learning Courses (PJJ) had been utilising this system and had been upgraded to version 2.0. It used the PHP language and the MySQL database compared to the earlier version which was using the Perl CGL System. The e-Sprint System had succeeded in winning the Bronze Medal at the IPEX 2005 Exhibition.

f. E-Clinic

This was a web-platform based system exclusively used by the Student Health Centre for the past one year to provide comprehensive treatment to patients and other Clinic users. In 2005, the E-Clinic data base server was upgraded and the server application system was separated from the database server.

Pengurusan Sumber Manusia

Human Resource Management





“Pada Tahun
2005, Kekuatan
Sumber Tenaga
Manusia Universiti
Putra Malaysia
Adalah Seramai
4,455 Orang”

Pada Tahun 2005, kekuatan sumber tenaga manusia Universiti Putra Malaysia adalah seramai 4,455 (empat ribu empat ratus lima puluh lima orang dan terbahagi kepada tiga (3) kumpulan.

Ketiga-tiga kumpulan yang dimaksudkan ialah, Kumpulan Pengurusan Tertinggi seramai 150 (seratus lima puluh) orang, Kumpulan Pengurusan dan Profesional seramai 2,101 (dua ribu seratus satu) orang, serta Kumpulan Sokongan seramai 2,204 (dua ribu dua ratus empat) orang.

Pejabat Pendaftar merupakan entiti utama yang bertanggungjawab dalam pengurusan sumber tenaga manusia dalam membangunkan sumber manusia serta persekitaran kerja yang cemerlang dan memantapkan sistem pengurusan berkualiti yang cekap, berkesan, telus dan mesra pelangan berteraskan nilai-nilai murni.

Pelantikan & Kenaikan Pangkat

Universiti Putra Malaysia telah melantik seramai 215 (dua ratus lima belas) orang pegawai bagi mengisi pelbagai kekosongan jawatan sepanjang tahun 2005. Daripada jumlah ini, 43 (empat puluh tiga) orang dari Kumpulan Pengurusan dan Profesional dan 172 (seratus tujuh puluh dua) orang dari Kumpulan Sokongan. Seramai 90 (sembilan puluh) orang pegawai Kumpulan Pengurusan dan Profesional, 263 (dua ratus enam puluh tiga) orang pegawai Kumpulan Sokongan telah dilantik secara kontrak bagi memastikan kesinambungan kecemerlangan, melatih pelapis serta melancarkan perjalanan aktiviti universiti.

Sejumlah 116 (seratus enam belas orang) staf telah berjaya dinaikkan pangkat iaitu Kumpulan Pengurusan Tertinggi seramai lapan (8) orang, Kumpulan Pengurusan

dan Profesional seramai 64 (enam puluh empat) orang dan Kumpulan Sokongan seramai 44 (empat puluh empat) orang. Pejabat Pendaftar berusaha membangunkan perancangan kerjaya staf bagi memastikan kemajuan kerjaya staf terjamin demi kepentingan bersama.

Cuti Belajar

Bagi meneruskan kesinambungan kecemerlangan dan penguasaan bidang ilmu, Universiti Putra Malaysia telah meluluskan cuti belajar kepada 127 orang pegawai untuk melanjutkan pengajian di dalam dan luar negara. Mereka terdiri daripada 38 orang di peringkat Sarjana dan 89 orang di peringkat Doktor Falsafah. Manakala seramai tujuh (7) orang pegawai akademik telah diluluskan cuti sabatikal.

Pembangunan Sumber Manusia

Pejabat Pendaftar telah mengendalikan sebanyak lapan (8) sesi Kursus Induksi yang melibatkan seramai 200 (dua ratus) orang pegawai Kumpulan Pengurusan dan Profesional serta 200 (dua ratus) orang pegawai dari Kumpulan Sokongan.

Seramai 247 (dua ratus empat puluh tujuh) orang pegawai Kumpulan Pengurusan dan Profesional telah mengikuti Kursus Penilaian Tahap Kecekapan. Seramai 95 (sembilan puluh lima) orang mengikuti Tahap Kecekapan 3, 53 (lima puluh tiga) orang Tahap Kecekapan 4, 75 (tujuh puluh lima) orang Tahap Kecekapan 5 dan 24 (dua puluh empat) orang Tahap Kecekapan 6.



Until 2005, the total manpower strength of UPM was 4,455 (four thousand four hundred and fifty five). They were divided into 3 groups: Top Level Management Group (150 officers), Management and Professional Group (2,101 officers) and Support Group (2,204 officers).

The Registrar's Office was the main entity responsible for human resource management. It strived to develop outstanding human resource and excellent working environment as well as to enhance quality management system which was efficient, effective, transparent, client-friendly and based on noble values.

Appointment and Promotion

Universiti Putra Malaysia appointed 215 officers to occupy various vacancies in the year 2005. Out of this, forty three persons were appointed to the Management and Professional Group and 172 to the Support Group. To maintain excellence and to ensure smooth execution of university activities, UPM had appointed 90 officers to the Management and Professional



Group posts and 263 officers to the Support Group on a contractual basis.

A total of 116 staff had been promoted: 8 persons to the Top Level Management, 64 persons to the Management and Professional Group and 44 persons to the Support Group. The Registrar's Office had initiated steps to plan staff careers and to ensure staff career development for the common benefit of all staff.



Jadual 1: Kursus Yang Dijalankan Pada Tahun 2005

BIL.	KURSUS	FREKUENSI
1	Pembangunan Pembelajaran dan Pengajaran	12
2	Kemahiran Akademik	9
3	Kemahiran Penyelidikan	3
4	Kepemimpinan dan Pengurusan	37
5	Komunikasi dan Bahasa	13
6	Pembangunan Diri dan Pasukan	25
7	Pembangunan Profesional	10
8	Perkhidmatan Teknikal	5
9	Pengurusan Kewangan	18
10	Peperiksaan Perkhidmatan	22
11	Keselamatan dan Kesihatan Pekerjaan	7
12	Penerapan Nilai Islam dan Kerohanian	6
13	Kemahiran Teknologi Maklumat dan Komunikasi	8
14	Perkhidmatan Pelanggan	5
	JUMLAH	250

Bagi kategori Kumpulan Sokongan pula seramai 2,100 (dua ribu satu ratus) orang telah mengikuti peperiksaan Penilaian Tahap Kecekapan.

Pejabat Pendaftar juga telah menganjurkan sebanyak 250 (dua ratus lima puluh) buah kursus yang melibatkan sejumlah 3,080 (tiga ribu lapan puluh) orang staf. Kursus-kursus yang telah dijalankan adalah seperti di Jadual 1.

Pengiktirafan Kecemerlangan

Penghargaan dan pengiktirafan kepada sumbangan cemerlang staf telah menjadi satu budaya di UPM. Pada tahun 2005, seramai tiga ratus enam puluh (360) orang staf telah menerima Anugerah Perkhidmatan Cemerlang 2004 Sistem Saran Malaysia daripada Yang Berbahagia Dato' Naib Canselor.

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 RM 10,000.00 bagi memberi peluang kepada penerima membuat lawatan ke universiti terkemuka atau menghadiri seminar untuk mendapatkan pendedahan, pengalaman dan pengetahuan yang boleh digunakan bagi meningkatkan lagi prestasi penerima.

Seramai tujuh (7) orang pegawai telah memenangi Anugerah Fellowship Naib Canselor di atas sumbangan cemerlang mereka dalam kategori (i) cemerlang dalam pengajaran, (ii) cemerlang dalam penyelidikan, (iii) cemerlang dalam Perkhidmatan Profesional, atau (iv) cemerlang dalam Perkhidmatan Sokongan. Anugerah Kategori Cemerlang dalam

Study Leave

UPM approved the study leave for 127 officers to pursue their studies locally and abroad at Masters level (38 persons) and at Ph.D level (89 persons). Sabbatical leave was approved for 7 academic officers.

Human Resource Development

The Registrar's Office had conducted 8 Induction Courses involving 200 officers from the Management and Professional Group and 200 officers from the Support Group.

A total of 247 Management and Professional Group officers had participated in the Efficiency Level Evaluation Course: 95 persons participated in Efficiency Level 3, 53 persons in Efficiency Level 4, 75 in Efficiency Level 5 and 24 in Efficiency Level 6.

The staff in the Support Group totaling 2100 persons had completed the Efficiency Level Evaluation examination.

The Registrar's Office had organised 250 courses and successfully trained 3,080 staff. The courses held were shown in Table 1.

Recognition of Excellence

UPM continuously encouraged and recognised excellent contribution of its staff. Indeed, three hundred and sixty staff had received Excellent Service Award 2004 from the Honourable Dato' Vice Chancellor.

The Vice Chancellor's Fellowship Award was accorded to staff in recognition of

Table 1 : Courses Conducted in 2005

NO.	COURSES	FREQUENCY
1	Teaching and Learning Development	12
2	Academic Skills	9
3	Research Skills	3
4	Leadership and Management	37
5	Communication and Language	13
6	Personal and Team Development	25
7	Professional Development	10
8	Technical Service	5
9	Financial Management	18
10	Service Evaluation	22
11	Workers Safety and Health	7
12	Instilling Islamic Values and Spirituality	6
13	Information Technology and Communication Skills	8
14	Customer Service	5
TOTAL		250





Pengajaran dimenangi oleh Profesor Madya Dr. Bahaman Abu Samah dari Fakulti Pengajian Pendidikan. Anugerah Kategori Cemerlang dalam Penyelidikan di menangi oleh Profesor Madya Dr. Mohamed Khazani Abdullah dari Fakulti Kejuruteraan dan Profesor Madya Dr. Maznah Ismail dari Fakulti Perubatan dan Sains Kesihatan. Anugerah Cemerlang dalam Perkhidmatan Profesional dihadiahkan kepada Profesor Madya Dr. Mohd Nasir Hassan dari Fakulti Pengajian Alam Sekitar dan Puan Siti Raba'ah Hamzah dari Fakulti Pengajian Pendidikan. Anugerah Kategori Cemerlang dalam Perkhidmatan Sokongan jatuh kepada Puan Maznah Mohamed dari Pusat Kesihatan Mahasiswa dan Encik Azizan Saad dari Fakulti Pertanian.

Prihatin di atas kesetiaan dan sumbangan ikhlas stafnya, Universiti Putra Malaysia telah menyediakan Anugerah Setia Putra kepada 123 (seratus dua puluh tiga) orang staf yang telah genap tempoh 20 tahun berkhidmat di Universiti Putra Malaysia. Anugerah Setia Putra diberikan kepada pegawai Universiti Putra Malaysia yang sudah berkhidmat di jawatan tetap secara terus-menerus selama 20 tahun atau lebih.

Seramai 47 (empat puluh tujuh) orang pesara Kumpulan Pengurusan dan Profesional dan 51 (lima puluh satu) orang pesara dari Kumpulan Sokongan telah dihadiahkan Anugerah Jasa Putra. Anugerah Jasa Putra merupakan penghargaan Universiti Putra Malaysia kepada staf yang sudah bersara atau meninggal dunia semasa dalam perkhidmatan. Dua (2) orang staf Kumpulan Sokongan yang telah meninggal dunia dianugerahkan Anugerah Jasamu Dikenang.

Keharmonian Persekitaran Kerja

Bagi memurnikan persekitaran dan memupuk keharmonian di tempat kerja, Majlis Bersama Jabatan (MBJ) Universiti Putra Malaysia yang ahlinya terdiri daripada Pengurusan Universiti, Persatuan Pegawai Akademik, Persatuan Pentadbir dan Persatuan Pegawai Am (KEPERTAMA) telah bermesyuarat sebanyak dua (2) kali sepanjang tahun 2005. Majlis Bersama Jabatan merupakan forum utama membincangkan isu-isu dan perkara-perkara berbangkit berkaitan dengan perkhidmatan dan kebajikan staf

Persaraan dan Meninggalkan Perkhidmatan

Tahun 2005 Universiti Putra Malaysia melihat seramai 141 (satu ratus empat puluh satu) orang staf meninggalkan perkhidmatannya. Seramai 41 (empat puluh satu) orang telah meletakkan jawatan, 84 (lapan puluh empat) orang bersara wajib, 13 (tiga belas) orang bersara pilihan, dua (2) orang meninggal dunia dan seorang (1) bersara atas sebab kesihatan. 93% daripada staf yang meletakkan jawatan adalah terdiri dari staf Kumpulan Pengurusan dan Profesional.

their excellence, expertise and skills in a particular field. The recipient of this award was awarded RM 10,000 grant to enable the recipient to visit an outstanding university or attend a seminar to obtain exposure, experience and knowledge which can be utilized to further enhance the recipient's performance.

There were 7 recipients of this award this year. They were:

(i) Excellence in Teaching Category

- (a) Associate Prof. Dr Bahaman
Abu Samah
(Faculty of Educational Studies)

(ii) Excellence in Research Category

- (a) Associate Prof Dr. Mohamed
Khazani Abdullah
(Faculty of Engineering)
- (b) Associate Prof Dr. Maznah Ismail
(Faculty of Medicine and
Health Sciences)

(iii) Excellence in Professional Service Category

- (a) Associate Prof Dr. Mohd
Nasir Hassan
(Faculty of Environmental
Studies)
- (b) Puan Siti Raba'ah Hamzah
(Faculty of Educational Studies)

(iv) Excellence in Support Services Category

- (a) Puan Maznah Mohamed
(Student Health Centre)
- (b) Mr Azizan Saad
(Faculty of Agriculture)

UPM also recognized officers who had served continuously for 20 years or more. Such a staff was accorded the Setia Putra Award.

For those who had retired or passed away while in service, the Jasa Putra award was accorded. This year 47 retirees from the Management and Professional Group and 51 retirees from the Support Group had been conferred this award. Two staff from the Support Group who had passed away were accorded the Jasamu Dikenang Award.

Harmonious Working Environment

The UPM Joint Departmental Council (MBJ) whose members comprise the Academic Officers Association, Administration Officers Association and the General Officers Association (KEPERTAMA) had convened twice in 2005 to nurture harmony and to ensure a perfect environment at the workplace. MBJ was the main forum which discussed the issues and other matters related to staff welfare and services.

Retirement and Resignation

A total of 141 staff left the service in 2005 of which 41 resigned, 84 retired, 13 took optional retirement, 2 passed away and 1 retired due to medical grounds. Ninety three per cent of the staff who retired were from the Management and Professional Group.

Perkhidmatan Profesional

Professional Services





“Universiti Putra
Malaysia (UPM)
Telah
Menggariskan
Matlamat Kelapan
Dalam Pelan
Strategi 2001-2020
ialah Menjadikan
UPM Sebagai
Pusat
Perkhidmatan dan
Pendidikan
Lanjutan yang
Cemerlang”

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 berterusan sepanjang tahun 2005 ke arah pencapaian matlamat tersebut. Melalui aktiviti Pusat Pemajuan Profesional (PACE) dan Unit Latihan, Pejabat Pendaftar, usaha meningkatkan kepakaran dan profesionalisme di kalangan warga kerja UPM dilakukan secara lebih tersusun. Selain itu, PACE juga menyediakan peluang peningkatan ilmu serta kemahiran yang berterusan kepada masyarakat luar kampus yang terdiri daripada individu serta agensi yang berminat.

Kursus dan Latihan

Sepanjang tahun 2005, PACE telah melaksanakan sebanyak 54 kursus yang mana merangkumi kursus yang dijalankan sendiri oleh PACE, kerjasama dengan pihak Pendaftar dan juga permintaan dari pihak luar. Seramai 3120 orang peserta telah menghadiri kursus PACE sepanjang tahun 2005.

Terdapat 5 kursus yang dijalankan oleh PACE secara persendirian. Seramai 294 orang peserta telah menghadiri kursus. Aktiviti dan kursus adalah seperti berikut:

TARIKH	NAMA KURSUS
28 Feb - 1 Mac 2005	Kursus Kemahiran Bahasa untuk Komunikasi yang berkesan
11 Julai 2005	Master Class on Situation Handling and Mental Models : Stories Drive People Centred Knowledge Application
29 Ogos 2005	Kursus Keselamatan dan Kesihatan Pekerjaan di Tempat Kerja untuk Kumpulan Akademik, Kumpulan Pengurusan dan Profesional dan Sokongan
24 - 25 Oktober 2005 & 26 - 27 Oktober 2005	Kursus Digital Video Editing and Streaming
22 - 23 Disember 2005	A Course Towards Successful Research

Universiti Putra Malaysia (UPM) had outlined as its 8th Goal of the UPM Strategic Plan 2001-2020 the need "to make UPM a Centre of Excellence for continuing education and services". UPM had planned and conducted various continuous efforts throughout 2005 to achieve that Goal. Through the activities of the Professional Advancement Centre (PACE) and the Training Unit, Registrar, the efforts to increase the expertise and professionalism among UPM staff were implemented systematically. Besides that, PACE had also provided continuous opportunities to interested off-campus individuals and agencies to increase their knowledge and skills.

Courses and Training

Throughout 2005, PACE had organised 54 courses which also included its own courses, those carried out in collaboration with Registrar and as well as those courses held upon the request of the private sector. The courses organised by PACE had been attended by 3120 participants throughout 2005.

There were 5 courses which had been solely organised by PACE and attended by 294 participants. The activities and courses were as follows:

DATE	NAME OF COURSES
28 Feb-1 March 2005	Course on language skills for effective communication
11 July 2005	Master Class on Situation Handling and Mental Models: Stories Drive People Centered Knowledge Application
29 August 2005	Course on Workplace Safety and Occupational Health for the Academic Group and the Management and Professional and Support Group
24-25 October 2005 & 26-27 October 2005	Course on Digital Video Editing and Streaming
22-23 December 2005	A course Towards Successful Research

Terdapat 7 Kursus yang dijalankan diantara PACE dan pihak luar (sektor awam dan swasta). Seramai 209 peserta telah menghadiri kursus tersebut.

TARIKH	NAMA KURSUS
18 - 19 Januari 2005	<i>Teaching Methodology Course</i> untuk Pensyarah Universiti Petronas
25 - 27 Februari 2005	<i>Teaching Supervision Course</i> untuk Pensyarah UTP
25 - 26 Februari 2005	<i>Testing and Evaluation Course</i> untuk Pensyarah UTP
28 - 31 Mac 2005	Bengkel Pemurnian Modul Kursus ICT-MID Institut Kemajuan Desa (INFRA)
5 - 8 April 2005	Kursus Kompetensi Pengajaran Mata Pelajaran Pengajian Malaysia untuk Tenaga Pengajar IKM/KKTM Se Malaysia
6 - 8 Mei 2005	Kursus Asas Pengajaran Pensyarah Kolej Shahputra
1 Ogos - 13 Sept 2005	<i>Team Building Corporate War and Command Course</i> untuk Pegawai BPR



There were 7 courses which were held by PACE and the Private Sector (Public and Private Sectors). A total of 209 participants had attended these courses.

DATE	NAME OF COURSES
18-19 January 2005	Teaching Methodology Course For Universiti Petronas Lecturers
25-27 February 2005	Teaching Supervision Course for UTP Lectures
25-26 February 2005	Testing and Evaluation Course for UTP Lectures
28-31 March 2005	Workshop on Perfection of ICT-MID Course Module, Institute of Rural Development (INFRA)
5-8 April 2005	Course on Teaching Competency of Malaysian Studies Subject For The Teaching Staff of IKM/KKTM Se Malaysia
6-8 April 2005	Course on Basic Teaching For Shahputra College Lecturers
1 August - 13 September 2005	Team Building Corporate War and Command Course for BPR officers



Terdapat 42 kursus yang telah dijalankan anjuran, Unit Latihan Pejabat Pendaftar dengan kerjasama dari PACE. Seramai 2617 peserta telah menghadiri kursus.

1. Bengkel Pemurnian Modul Baru Latihan ICT 2005 26 - 27 Januari 2005
2. Bengkel Pemurnian Modul Kursus Kewangan 9 - 10 Mac 2005
3. Short Course on Internet Search 21 - 22 Mac 2005
4. Seminar keselamatan dan kesihatan untuk Pegawai Kanan UPM 29 Mac 2005
5. Kursus Penyampaian Berkesan 5 - 6 April 2005
6. Route to Professional Engineer 11 - 13 April 2005
7. Kursus Keselamatan dan Kesihatan Pekerjaan untuk pegawai Pengurusan dan Profesional UPM 25 - 26 April 2005
8. Kursus Keselamatan dan Kesihatan Pekerjaan untuk Pegawai Pengurusan dan Profesional UPM 27 - 28 April 2005
9. Kursus Sehari Ceriakan Bos Anda 4 Mei 2005
10. Kursus Management for Manager untuk Pegawai Pengurusan dan Profesional UPM 4 - 5 Mei 2005
11. Testing and Evaluation Workshop 11 - 12 Mei 2005
12. Kursus Pengurusan Efektif untuk Penyelia 24 - 25 Mei 2005
13. Kursus Pertolongan Cemas dan CPR 24 - 25 Mei 2005
14. Kursus '*Management for Manager*' untuk Pegawai Pengurusan dan Profesional UPM 25 -26 Mei 2006
15. Kursus Pertolongan Cemas dan CPR 30 - 31 Mei 2005
16. Bengkel Pengurusan Stress 13 Jun 2005
17. Bengkel Pengurusan Stress 14 Jun 2005
18. Kursus Pengurusan Efektif untuk Penyelia 15 - 16 Jun 2005
19. Kursus Aplikasi Pendekatan Kaunseling dalam Pengurusan 15 - 16 Jun 2005
20. Kursus Keselamatan dan Kesihatan Pekerjaan di tempat Kerja (Siri 1: Makmal) 19 - 25 Jun 2005
21. Kursus Kemahiran Komunikasi antara Doktor/Jururawat dengan Pesakit - 21 Jun 2005
22. Kursus Kemahiran Komunikasi '*Interpersonal*' dalam Organisasi 21 - 22 Jun 2005
23. Kursus Keselamatan dan Kesihatan Pekerjaan di Tempat Kerja (Siri 1: Teknikal) 21 - 23 Jun 2005
24. Kursus Kemahiran Komunikasi dan Perundingan 23 Jun 2005
25. Kursus Keselamatan dan Kesihatan Pekerjaan di Tempat Kerja (Siri 1: Pejabat) 23 - 25 Jun 2005

There were 42 other courses which had been sponsored by the Training Unit, Registrar and organised in collaboration with of PACE. A total of 2617 participants had attended these courses

1. *Workshop on Perfection of New ICT Training Module*
2. *Workshop on Perfection of Financial Course Module*
3. *Short Course on Internet Search 21-22 March 2005*
4. *Seminar on Safety and Health for Senior Officers of UPM*
5. *Course on Effective Presentation 5-6 April 2005*
6. *Route to Professional Engineer 11-13 April 2005*
7. *Course on Safety and Occupational Health for the UPM Management and Professional Officers 25-26 April 2005*
8. *Course on Safety and Occupational Health for the UPM Management and Professional Officers 27-28 April 2005*
9. *One-day Course on Making Your Boss Happy 4 May 2005*
10. *Course on Management for Manager for the UPM Management and Professional Officers 4-5 May 2005*
11. *Testing and Evaluation Workshop 11-12 May 2005*
12. *Course on Effective Management for Supervisors 24-25 2005*
13. *Course on First Aid and CPR 24-25 May 2005*
14. *Course on Management for Manager for the UPM Management and Professional Officers 25-26 May 2006*
15. *Course on First Aid and CPR 30-31 May 2005*
16. *Course on Stress Management 13 June 2005*
17. *Course on Stress Management 14 June 2005*
18. *Course on Effective Management for Supervisors 15-16 June 2005*
19. *Course on Application of Counseling Approach in Management 15-16 June 2005*
20. *Course on Safety and Occupational Health at workplace (1st Series : Laboratory) 19-20 June 2005*
21. *Course on Communication Skills between Doctor/Nurse and Patient 21 June 2005*
22. *Course on Communication Skills in Organisation 21-22 June 2005*
23. *Course on Workplace Safety and Occupational Health (1st Series : Technical) 21-23 June 2005*
24. *Course on Communication and Negotiation Skills 23 June 2005*
25. *Course on Workplace Safety and Occupational Health (1st Series : Office) 23-25 June 2005*

26. Kursus Keselamatan dan Kesihatan Pekerjaan di Tempat kerja (Siri 2: Makmal) 27 - 29 Jun 2005
27. Kursus Kemahiran Pengucapan Awam 28-29 Jun 2005
28. Kursus Kemahiran Komunikasi dalam Perkhidmatan Kaunter dan telefon - 30 Jun 2005
29. Kursus Keselamatan dan Kesihatan Pekerjaan di Tempat Kerja (Siri 2: Teknikal) - 30 Jun, 1 Julai & 4 Julai 2005
30. Kursus Keselamatan dan Kesihatan Pekerjaan di Tempat Kerja (Siri 2: Pejabat) 6 - 8 Julai 2005
31. Kursus "Master Class on Situation Handling and Mental Models: Stories Drive People Centred Knowledge Application" 11 Julai 2005
32. Kursus Perkhidmatan untuk Staf Sokongan (Kontrak) 28 - 29 Julai 2005
33. Kursus Pengurusan Kewangan (Modul 1) 8 Ogos 2005
34. Kursus Pengurusan Kewangan (Modul 2) 9 Ogos 2005
35. Kursus Pengurusan Kewangan (Modul 3) 10 - 11 Ogos 2005
36. Kursus Pengurusan Mesyuarat 12 Ogos 2005
37. Kursus Kecemerlangan Diri untuk PAR 16 - 17 Ogos 2005
38. Kursus Keselamatan dan Kesihatan Pekerjaan di Tempat Kerja Fakulti Pertanian 29 Ogos 2005
39. Kursus Kecemerlangan Diri untuk PAR 29 - 30 Ogos 2005
40. Kursus Keselamatan dan Kesihatan Pekerjaan di Tempat Kerja untuk Pegawai Pengurusan dan Profesional (Kampus Bintulu- UPM) 5 - 7 September 2005
41. Kursus Kecemerlangan Diri untuk Staf Teknikal 5 - 6 September 2005
42. Kursus Pengurusan Kewangan (Modul 4) 7 September 2005
43. Kursus Perkhidmatan untuk Pegawai Tadbir Gred N41 27 - 28 September 2005
44. Kursus Digital Video Editing and Streaming 24 - 25 Oktober 2005
45. Kursus Digital Video Editing and Streaming 26 - 27 Oktober 2005
46. A Course Towards Successful Research 22 - 23 Disember 2005

Khidmat Perundingan

UPM juga giat menjalankan aktiviti perundingan bersama sektor awam dan swasta sama ada di peringkat nasional atau antarabangsa. Perkhidmatan ini amat penting bagi mempromosi segala kepakaran yang dimiliki oleh universiti ini untuk kebaikan dan manfaat kepada seluruh masyarakat. UPM melalui Unit Perundingan, Pusat Pembangunan Perniagaan (UBC) telah menyelaraskan sebanyak 32 projek perundingan sepanjang tahun 2005. Khidmat perundingan yang dijalankan ini melibatkan nilai projek berjumlah RM 6,064,883.40. Kebanyakan daripada projek perundingan tersebut masih dijalankan untuk tahun 2006. Senarai projek adalah seperti berikut:

26. *Course on Workplace Safety and Occupational Health (2nd Series : Laboratory) 27-29 June 2005*
27. *Course on Public Speaking Skills 28-29 June 2005*
28. *Course on Communication Skills in Counter and Telephone Services 30 June 2005*
29. *Course on Workplace Safety and Occupational Health (2nd Series : Technical) 30 June, 1 July & 4 July 2005*
30. *Course on Workplace Safety and Occupational Health (2nd Series : Office) 6-8 July 2005*
31. *Course on Master Class on Situation Handling and Mental Models : Stories Drive People Centered Knowledge Application 11 July 2005*
32. *Course on Service for Support Services (Contract) 28-29 July 2005*
33. *Financial Management Course (1st Module) 8 August 2005*
34. *Financial Management Course (2nd Module) 9 August 2005*
35. *Financial Management Course (3rd Module) 10-11 August 2005*
36. *Meeting Management Course 12 August 2005*
37. *Self-Excellence Course for PAR 16-17 August 2005*
38. *Workplace Safety and Occupational Health at Faculty of Agriculture 29 August 2005*
39. *Self-Excellence Course for PAR 29-30 August 2005*
40. *Workplace Safety and Occupational Health for Management and Professional Officers (Bintulu Campus-UPM) 5-7 September 2005*
41. *Self-Excellence Course for Technical Staff 5-6 September 2005*
42. *Financial Management Course (4th Module) 7 September 2005*
43. *Service Course for Administrative Officers Grade N41 27-28 September 2005*
44. *Course on Digital Video Editing and Streaming 24-25 October 2005*
45. *Course on Digital Video Editing and Streaming 26-27 October 2005*
46. *A Course Towards Successful Research 22-23 December 2005*

Consultancy Service

UPM had also conducted consultancy services together with the public and private sectors both at national and International levels. This service was of utmost importance to promote all the expertise of the University for the goodness and benefit of the Community. UPM, through its Consultancy Unit, University Business Centre (UBC), had coordinated 32 consultancy projects in 2005. These projects would be continued in 2006. The list of projects are as follows:

PROJEK PERUNDINGAN 2005

BIL.	NAMA PROJEK	KETUA PROJEK
1.	Economic Valuation And Forest Resource Accounting In Peninsular Malaysia	Prof. Madya Dr. Awang Noor Abd. Ghani
2.	DOW AGROSCIENCES	Prof. Madya Dr. Ahmad Said Sajap
3.	Digital Power Line Communication	Dr. Khazani
4.	Projek Landscaping Permata - Petronas	Dr. Nordin Rahman
5.	Kajian Pusat Rujukan Sosial	Prof. Dr. Abu Daud Silong
6.	Bengkel Dan Konferens Ecotourism	Prof. Dr. Mohamed Daud
7.	Construction Of Social Accounting Matrix And Its Application To The Analysis	Dr. Zakaria Abd. Rashid
8.	Project Multimedia Carey Island	Mohd Rizal Khanafe
9.	Projek Pembangunan Coastal resources Risk Index (CORRI) Untuk Meniali Kesanpencemaran Air Terhadap Produktiviti Sumber Asli Pinggiran Pantai	Prof. Dr. Zelina Zaiton
10.	Plan Pengurusan Hutan (RPH) Untuk Kawasan Hutan Paya Laut-Selangor	Prof. Madya Dr. Mohd Zakaria Hussin
11.	Product And Process Improvement Of Meta - X	Dr. Arbakaria
12.	Penilaian Keberkesanan Sistem Pengurusan Agensi Pelaksanaan Bagi Menyelenggara Projek Perumahan Di Bawah Skim Yayasan Perumahan Untuk Termiskin	Prof. Dr. Rahim Md. Sail
13.	Development Of A master Plan For UEM - Land Johor	Dr. Jalaluddin Harun
14.	Study On Precision Farming	Prof. Dr. Mohd Amin Mohd Soom
15.	Kajian Penempatan Semula Kampung PPSK Felcra Berhad - Perak	Dr. Jamilah

CONSULTANCY PROJECTS 2005

NO.	NAME OF PROJECT	HEAD OF PROJECT
1.	<i>Economic Valuation And Forest Resource Accounting In Peninsular Malaysia</i>	<i>Prof. Madya Dr. Awang Noor Abd. Ghani</i>
2.	<i>Dow Agrosiences</i>	<i>Prof. Madya Dr. Ahmad Said Sajap</i>
3.	<i>Digital Power Line Communication</i>	<i>Dr. Khazani</i>
4.	<i>Permata Landscaping Project - Petronas</i>	<i>Dr. Nordin Rahman</i>
5.	<i>Social Reference Centre Studies</i>	<i>Prof. Dr. Abu Daud Silong</i>
6.	<i>Workshop and Conference on Ecotourism</i>	<i>Prof. Dr. Mohamed Daud</i>
7.	<i>Construction of Social Accounting Matrix And Its Application To The Analysis</i>	<i>Dr. Zakaria Abd. Rashid</i>
8.	<i>Project Multimedia Carey Island</i>	<i>Mohd Rizal Khanafe</i>
9.	<i>Coastal Resources Risk Index Development (CORRI) to evaluate the effect of water pollution on the productivity of natural resources of coastal fringes.</i>	<i>Prof. Dr. Zelina Zaiton</i>
10.	<i>Forest Management Plan (RPH) for the coastal wetland area - Selangor</i>	<i>Prof. Madya Dr. Mohd Zakaria Hussin</i>
11.	<i>Product and process Improvement of Meta-X</i>	<i>Dr. Arbakaria</i>
12.	<i>Evaluation on The Effectiveness of the Management System of the Implementation Agency overseeing the Housing Project under the Housing Foundation for the very poor</i>	<i>Prof. Dr Rahim Md. Sali</i>
13.	<i>Development of A master Plan For UEM - Land Johor</i>	<i>Dr. Jalaluddin Harun</i>
14.	<i>Study on Precision Farming</i>	<i>Prof. Dr. Mohd Amin Mohd Soom</i>
15.	<i>A study on the resettlement of Kampung PSSK Felcra Berhad - Perak</i>	<i>Dr. Jamilah</i>

BIL.	NAMA PROJEK	KETUA PROJEK
16.	Kajian Penempatan Semula Kampung PPSK Felcra - Pahang	Dr. Jamilah
17.	Extenal Advisor For Aquawalk Sdn Bhd	Prof. Dato' Dr. Mohamed Shariff b. Mohamed Din
18.	External Advisor For TMR & D	Dr. Mansor Hashim
19.	Keberkesanan Media Massa Dalam Memupuk Perpaduan Dan Intergrasi	Prof. Dr. Md. Salleh
20.	Discovery Of Fractions And Compounds With Properties from Local Indigenous	Dr. Johnson Stanslas
21.	Activated Carbon And Pyrolygneous Acid From Various Biomass Resource	Prof. Dr. Mohd Ali Hassan
22.	The Dual Project For Majlis Latihan Vokasional (MLVK)	Prof. Dr. Rahim Sail
23.	R&D on Biological Control of Bagworm	Dr. Hafidzi Mohd Noor
24.	Kajian Kepimpinan dalam Masyarakat Pelbagai Kaum: Keberkesanan Kepimpinan Ahli Jawatankuasa Rukun Tetangga	Prof. Dr. Abu Daud Silong
25.	North South Expressway Upgrading Of KM 257 Jelapang Kuala Kangsar Stretch For Reduction Of Accidents	Dr. Law Teik Hua
26.	Special Project On R & D UPM & KAT	Prof. Dr. Mohd Ali Hassan
27.	External Advisor Health	Dr. Jalila Abu
28.	Empirical Study - Treading Safeguard & Market Management For Securities Market	Prof. Dr. Shamser Ramdili
29.	GSM Car Security Alert System Car Save Version D	En. Badrul Azmi
30.	Detailed Environment Analysis For The Proposed Beach Rehabilitation Project At Teluk Kekek	Prof. Dr. Fatimah M. Yusoff
31.	Biological Evaluation of Medical Devices Part 6: Tests for Local Effects After Implantation	Prof. Madya Dr. Md. Zuki Abu Bakar

NO.	NAME OF PROJECT	HEAD OF PROJECT
16.	<i>A study on the resettlement of Kampung PSSK Felcra Berhad - Pahang</i>	<i>Dr. Jamilah</i>
17.	<i>External Advisor for Aquawalk Sdn. Bhd</i>	<i>Prof. Dato' Dr. Mohamed Shariff b. Mohamed Din</i>
18.	<i>External Advisor for TMR & D</i>	<i>Dr. Mansor Hashim</i>
19.	<i>Effectiveness of Mass Media in promoting Unity and Integration</i>	<i>Prof. Dr. Md. Salleh</i>
20.	<i>Discovery of Fractions and Compounds With Properties from Local Indigenous</i>	<i>Dr. Johnson Stanslas</i>
21.	<i>Activated Carbon and Pyroligneous Acid From Various Biomass Resource</i>	<i>Prof. Dr. Mohd Ali Hassan</i>
22.	<i>The Dual project for Majlis Latihan Vokasional (MLVK)</i>	<i>Prof. Dr. Rahim Sali</i>
23.	<i>R&D on Biological Control of Bagworm</i>	<i>Dr. Hafidzi Mohd Noor</i>
24.	<i>A study on Leadership in Multiracial Community : Leadership Effectiveness Of Rukun Tetangga Committee Members</i>	<i>Prof. Dr. Abu Daud Silong</i>
25.	<i>North South Expressway Upgrading of KM 257 Jelapang Kuala Kangsar Stretch for Reduction</i>	<i>Dr. Law Teik Hua</i> <i>Of Accidents</i>
26.	<i>Special Project on R & D UPM & KAT</i>	<i>Prof. Dr. Mohd Ali Hassan</i>
27.	<i>External Health Advisor</i>	<i>Dr. Jalila Abu</i>
28.	<i>Empirical Study - Treading Safeguard & Market Management for Securities Market</i>	<i>Prof. Dr. Shamser Ramdili</i>
29.	<i>GSM Car Security Alert System Car Save -Version D</i>	<i>En. Badrul Azmi</i>
30.	<i>Detailed Environment Analysis for The Proposed Beach Rehabilitation Project at Teluk Kekek</i>	<i>Prof. Dr. Fatimah M. Yusoff</i>
31.	<i>Biological Evolution of Medical Devices Part 6: Tests for Local Effects After Implantation</i>	<i>Prof. Madya Dr. Md. Zuki Abu Bakar</i>

Perhubungan Korporat

Corporate Relations





“Sebagai Taman Ilmu, Budaya Intelektual UPM Telah Disuburi Dengan Aktiviti Syarahan Umum Untuk Menyebarkan Ilmu Di Kalangan Warga UPM. Sepanjang Tahun 2005, Pakar-Pakar Bertaraf Dunia Dalam Pelbagai Bidang Dijemput Untuk Berkongsi Ilmu.”

Perhubungan Korporat

Corporate Relations





“Sebagai Taman Ilmu, Budaya Intelektual UPM Telah Disuburi Dengan Aktiviti Syarahan Umum Untuk Menyebarkan Ilmu Di Kalangan Warga UPM. Sepanjang Tahun 2005, Pakar-Pakar Bertaraf Dunia Dalam Pelbagai Bidang Dijemput Untuk Berkongsi Ilmu.”

SEMINAR, SYARAHAN AWAM DAN BENGKEL

Sebagai taman ilmu, budaya intelektual UPM telah disuburi dengan aktiviti syarahan umum untuk menyebarkan ilmu dalam kalangan warga UPM. Sepanjang tahun 2005, pakar-pakar bertaraf dunia dalam pelbagai bidang dijemput untuk berkongsi ilmu. Antaranya termasuklah:-

BIL.	PERKARA	TARIKH
1.	<p>Seminar 'Opportunities, Challenges and New Perspectives in Natural Products Research and Development'</p> <p>Oleh: Prof. K. Hostettman <i>(Laboratoire de Pharmacognosie et Phytochimie, Universite de Geneva)</i></p> <p>Penganjur: Bahagian Perhubungan Antarabangsa & Akademi Sains Malaysia</p>	16 Februari 2005
2.	<p>A Talk on International Collaboration and Opportunities in Higher Education</p> <p>Oleh: The European Commission</p> <p>Penganjur: Bahagian Perhubungan Antarabangsa</p>	3 Mac 2005
3.	<p>Seminar 'Pem Fuel Cells For The Transportation Application'</p> <p>Oleh: Prof. Rob Thring <i>(Department of Aeronautical and Automotive Engineering, University of Loughborough, England)</i></p> <p>Penganjur: Bahagian Perhubungan Antarabangsa & Akademi Sains Malaysia</p>	14 Mac 2005
4.	<p>Seminar 'Surface Plasmon Resonance (SPR) Technology for Studying Molecular Interactions: An Overview of the theory, applications and latest developments</p> <p>Oleh: Mr. Rick Filonzi (Branch Office Manager of Biacore International Limited, Melbourne, Australia)</p> <p>Penganjur: Institut Biosains & Bahagian Perhubungan Antarabangsa</p>	14 April 2005

SEMINARS, PUBLIC LECTURES AND WORKSHOPS

As a repository of knowledge, the intellectual culture of UPM was enriched by Public lectures which had been organised to disseminate knowledge among the UPM community. Throughout the year 2005, internationally renowned experts from various fields have been invited to share their knowledge. These, among others, include:-

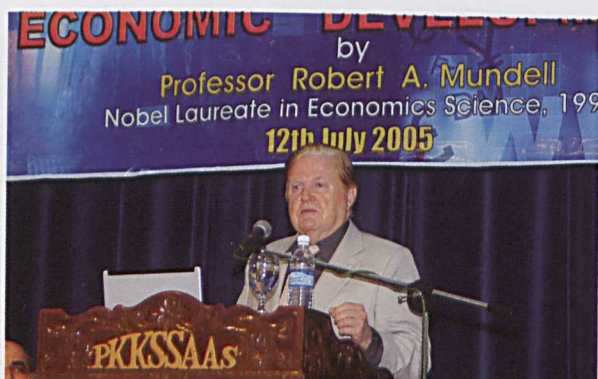
NO.	SUBJECT	DATE
1.	Seminar on 'Opportunities, Challenges and New Perspectives in Natural Products Research and Development' <i>By: Prof. K. Hostettman</i> (Laboratoire de Pharmacognosie et Phytochimie, Universite de Geneva) Organisers: International Relations Office & Malaysian Academy of Science	16 February 2005
2.	A Talk on International Collaboration and Opportunities in Higher Education <i>By: The European Commission</i> Organiser: International Relations Office	3 March 2005
3.	Seminar on 'Pem Fuel Cells For The Transportation Application' <i>By: Prof. Rob Thring</i> (Department of Aeronautical and Automotive Engineering, University of Loughborough, England) Organisers: International Relations Office & Malaysian Academy of Sciences	14 March 2005
4.	Seminar on 'Surface Plasmon Resonance (SPR) Technology for studying molecular Interactions: An Overview of the theory, applications and latest developments' <i>By: Mr. Rick Filonzi (Branch Office Manager of Biacore International Limited, Melbourne Australia)</i> Organisers: Institute of Bioscience & International Relations Office	14 April 2005

BIL.	PERKARA	TARIKH
5.	<p>Bengkel 'Malaysia-Imperial Doctoral Programme (MIDP)'</p> <p>Penganjur: Bahagian Perhubungan Antarabangsa, UPM</p> <p>Peserta: Imperial College, London, Universiti Malaya, Universiti Sains Malaysia, Universiti Putra Malaysia, Universiti Kebangsaan Malaysia dan Universiti Teknologi Malaysia.</p>	11 - 12 Julai 2005
6.	<p>Syarahan Umum 'Exchange Rate Regimes and Economic Development'</p> <p>Oleh: Prof. Robert A. Mundell (<i>Nobel Laureate in Economics Science, 1999</i>)</p> <p>Penganjur: Fakulti Ekonomi dan Pengurusan & Bahagian Perhubungan Antarabangsa</p>	12 Julai 2005
7.	<p>Seminar on 'Fifty-five Years of Development Economics and Counting': What has the Search for the Deep Determinants of National Prosperity Concluded'</p> <p>Oleh: Prof. Dr. Lehman B.Fletcher</p> <p>Penganjur: Fakulti Ekonomi dan Pengurusan & Bahagian Perhubungan Antarabangsa</p>	28 Julai 2005
8.	<p>Seminar 'Emerging Diseases: How Human Activities May Help Diseases To Emerge, and The Need For Global Surveillance For A Rapid Response'</p> <p>Oleh: Prof. John S. Mackenzie (<i>Curtin University of Technology</i>)</p> <p>Penganjur: Bahagian Perhubungan Antarabangsa & Akademi Sains Malaysia</p>	5 September 2005
9.	<p>Syarahan Awam 'Towards Universal 'Agricultural' Extension Paradigm: Case Study of Agricultural Extension System in AIM Countries (Australia, Iran, Malaysia)'</p> <p>Oleh: Prof. Dr. Iraj Malek Mohammadi (<i>University of Tehran, Karaj, Iran</i>)</p> <p>Penganjur: Institut Pengembangan Pertanian & Bahagian Perhubungan Antarabangsa</p>	16 September 2005

NO.	SUBJECT	DATE
5.	<p>Seminar on 'Malaysia-Imperial Doctoral Programme (MIDP)' Organisers: International Relations Office, UPM Participants: Imperial College, London, University Malaya, University of Science Malaysia, Universiti Putra Malaysia, Universiti Kebangsaan Malaysia and University of Technology Malaysia.</p>	11 - 12 July 2005
6.	<p>Public Lecture on 'Exchange Rate Regimes and Economic Development' By: Prof. Robert A. Mundell (Nobel Laureate in Economics Science, 1999) Organisers: Faculty of Economics and Management & International Relations Office</p>	12 July 2005
7.	<p>Seminar on 'Fifty-five Years of Development Economics and Counting: What has the Search for the Deep Determinants of National Prosperity Concluded' By: Prof. Dr. Lehman B. Fletcher Organisers: Faculty of Economics and Management & International Relations Office</p>	28 July 2005
8.	<p>Seminar on 'Emerging Diseases: How Human Activities May Help Diseases To Emerge, and The Need For Global Surveillance For A Rapid Response' By: Prof. John S. Mackenzie (Curtin University of Technology) Organisers: International Relations Office & Malaysian Academy of Sciences</p>	5 September 2005
9.	<p>Public Lecture on 'Towards Universal Agricultural Extension Paradigm: Case Study of Agricultural Extension System in AIM Countries (Australia, Iran, Malaysia)' By: Prof. Dr. Iraj Malek Mohammadi (University of Tehran, Karaj, Iran) Organisers: Institute of Agricultural Extension & International Relations Office</p>	16 September 2005

PERINGKAT ANTARABANGSA

BIL.	PERKARA	TARIKH
1	International Conference on Knowledge Management (ICKM) 2005 di PWTC, Kuala Lumpur	7 - 9 Julai 2005
2	Bengkel Master Class on Situation Handling and Mental Models: Stories Drive People Centred Knowledge Application anjuran PACE di Hotel Pan Pacific KLIA	11 Julai 2005
3	2nd International Conference on Research and Education in Mathematics (ICREM2) anjuran Institut Multimedia dan Perisian di Hotel Residence UNITEN Bangi	25 - 27 Mei 2005
4	ANRAP	11-12 Jan 2005
5	Ucap Utama Pengantarabangsaan Pendidikan Tinggi disampaikan oleh Datuk Dr. Effendi Norwawi, Wakil Khas Kementerian Pengajian Tinggi di Dewan Persidangan, Pusat Pendidikan Luar, UPM	28 Januari 2005
6	The 16th Asian Finance Association Conference di Hotel Istana, Kuala Lumpur	11 - 13 Julai 2005
7	Training Workshop on Techniques in Immunomodulatory Screening of Herbal Drug di Institut Interim Bioteknologi Farmaseutikal dan Nutraseutikal	24 - 29 Julai 2005
8	C.A.R.E. International Conference 2005, Hotel Grand Seasons Kuala Lumpur	2 - 4 Dis 2005
9	International Conference on Medicinal Plants di Hotel Dynasty Kuala Lumpur	5 - 7 Dis 2005



INTERNATIONAL LEVEL

NO.	SUBJECT	DATE
1	<i>International Conference on Knowledge Management (ICKM) 2005 di PWTC, Kuala Lumpur</i>	7 - 9 July 2005
2	<i>Master Class Workshop on Situation Handling and Mental Models: Stories Drive People Centred Knowledge Application organised by PACE at Hotel Pan Pacific KLIA</i>	11 July 2005
3	<i>2nd International Conference on Research and Education in Mathematics (ICREM2) organised by Institute of Multimedia and Software at Hotel Residence UNITEN Bangi</i>	25 - 27 May 2005
4	ANRAP	11-12 Jan 2005
5	<i>Key note address on "Internationalisation of Higher Education" presented by Datuk Dr. Effendi Norwawi, Special Representative of Ministry of Higher Education at the Conference Hall, Centre for External Programme, UPM</i>	28 January 2005
6	<i>The 16th Asian Finance Association Conference at Hotel Istana, Kuala Lumpur</i>	11 - 13 July 2005
7	<i>Training Workshop on Techniques in Immunomodulatory Screening of Herbal Drug at Interim Institute of Pharmaceutical & Nutraceutical Biotechnology</i>	24 - 29 July 2005
8	<i>C.A.R.E. International Conference 2005, Hotel Grand Seasons Kuala Lumpur</i>	2 - 4 Dec 2005
9	<i>International Conference on Medicinal Plants at Hotel Dynasty Kuala Lumpur</i>	5 - 7 Dec 2005



SYARAHAN INAUGURAL

BIL.	PERKARA	TARIKH
1	The Interface of Work and Family Roles: <i>A Quest for Balanced Lives -</i> Prof. Dr. Aminah Ahmad	11 Mac 2005
2	Challenges in Feeding Livestock: <i>From Wastes to Feed -</i> Prof. Dr. Abdul Razak Alimon	23 April 2005
3	Helping Malaysian Youth Move Forward: <i>Unleashing the Prime Enablers -</i> Prof. Dr. Hj Azimi Hj Hamzah	29 April 2005
4	In Search of an Early Indicator of Kidney Disease - Prof. Dr. Rasedee Abdullah di Dewan Taklimat, Bangunan Pentadbiran	27 Mei 2005
5	Smart Partnership: <i>Plant-Rhizobacteria Associations -</i> Prof. Dr. Zulkifli Shamsuddin	17 Jun 2005
6	From the Soil to the Table - Prof. Dr. Mohd Khanif Yusop di Dewan Taklimat, Bangunan Pentadbiran	1 Julai 2005
7	Materials Science and Technology: <i>Past, Present and the Future -</i> Prof. Dr. Annuar Kassim	8 Julai 2005
8	“Enhancing Career Development Counseling and the Beauty of Career Games” Prof. Dr. Othman Mohamed di Dewan Taklimat, Bangunan Pentadbiran	12 Ogos 2005
9	Engineering Agricultural Water Management <i>Towards Precision Farming -</i> Prof. Ir. Dr. Mohd Amin Mohd Soom	26 Ogos 2005
10	Bioremediation - <i>A Hope yet for the Environment? -</i> Prof. Dr. Mohd Arif Syed	9 Sept 2005
11	The Wonder of Our Neuromotor System and The Technological Challenges They Pose - Prof. Dr. Abdul Hamid Abdul Rashid	23 Dis 2005

INAUGURAL LECTURES

NO.	SUBJECT	DATE
1	The Interface of Work and Family Roles: A Quest for Balanced Lives- Prof. Dr. Aminah Ahmad	11 March 2005
2	Challenges in Feeding Livestock: From Wastes to Feed- Prof. Dr. Abdul Razak Alimon	23 April 2005
3	Helping Malaysian Youth Move Forward: Unleashing the Prime Enablers- Prof. Dr. Hj Azimi Hj Hamzah	29 April 2005
4	In Search of an Early Indicator of Kidney Disease- Prof. Dr. Rasedee Abdullah at the Briefing Hall, Administration Building	27 May 2005
5	Smart Partnership: Plant-Rhizobacteria Associations- Prof. Dr. Zulkifli Shamsuddin	17 June 2005
6	From the Soil to the Table- Prof. Dr. Mohd Khanif Yusop at the Briefing Hall, Administration Building	1 July 2005
7	Materials Science and Technology: Past, Present and the Future- Prof. Dr. Annuar Kassim	8 July 2005
8	"Enhancing Career Development Counselling and the Beauty of Career Games" Prof. Dr. Othman Mohamed at the Briefing Hall, Administration Building	12 August 2005
9	Engineering Agricultural Water Management Towards Precision Farming- Prof. Ir. Dr. Mohd Amin Mohd Soom	26 August 2005
10	Bioremediation-A Hope yet for the Environment? Prof. Dr. Mohd Arif Syed	9 Sept 2005
11	The Wonder of Our Neuromotor System and the Technological Challenges They Pose - Prof. Dr. Abdul Hamid Abdul Rashid	23 Dec 2005

SYARAHAN AWAM

BIL.	PERKARA	TARIKH
1	Syarahannya Yayasan Pak Rashid "Moving Towards A Progressive Society" oleh Y.A.B. Tun Dr. Mahathir Mohamad di Dewan Besar, PKKSSAAS	5 Ogos 2005
2	Majlis Syarahan Media 'Halatuju Dasar Perfileman Negara' oleh Y.B Senator Dato' Jins Shamsudin, Ahli Dewan Negara Malaysia di Dewan Zaaba, Fakulti Bahasa Moden dan Komunikasi	27 Jan 2005
3	Majlis Syarahan Awam "Hala Tuju Pertanian Universiti Putra Malaysia" - YB. Tan Sri Dato' Haji Muhyiddin Mohd Yassin di Dewan Persidangan Pusat Pendidikan Luar, UPM	17 Feb 2005
4	Syarahannya Awam "The Idea of University: Harvard Experience" oleh Y.Bhg. Tan Sri Dato' Prof. Dr. Lin See Yan di Dewan Taklimat, Bangunan Pentadbiran	26 Feb 2005
5	Syarahannya Wacana Ilmu 2005 'Cabaran Belia Dalam Era Globalisasi' oleh YB Datuk Azalina Dato' Othman Said di Dewan Persidangan, Pusat Pendidikan Luar	4 Mac 2005
6	Syarahannya Umum Y.Bhg. Tan Sri Dr. Hadenan A. Jalil, Ketua Audit Negara yang bertajuk "Tadbir Urus yang Baik Ke Arah Kecemerlangan" di Dewan Persidangan, Pusat Pendidikan Luar	5 Julai 2005

PUBLIC LECTURES

NO.	SUBJECT	DATE
1	<p>Pak Rashid Foundation Lecture "Moving Towards A Progressive Society" by Y.A.B. Tun Dr. Mahathir Mohamad at the Main Hall, PKKSSAAS</p>	5 August 2005
2	<p>Lecture on Media 'Direction of The National Film Policy' by Hon. Senator Dato' Jins Shamsudin, Member of the Malaysian Senate, at the Zaaba Hall, Faculty of Modern Languages and Communication</p>	27 Jan 2005
3	<p>Public Lecture: The Direction of Agriculture at Universiti Putra Malaysia - by the Honourable Tan Sri Dato' Haji Muhyiddin Mohd Yassin at the Conference Hall, Center for External Education, UPM</p>	17 Feb 2005
4	<p>Public Lecture: "The Idea of University: Harvard Experience" by the Honourable Tan Sri Dato' Prof. Dr. Lin See Yan at the Briefing Hall, Administration Building</p>	26 Feb 2005
5	<p>Lecture on Knowledge 2005 'Youth Challenges in the ERA of Globalisation' by the Honourable Datuk Azalina Dato' Othman Said at the Conference Hall, Centre for External Education</p>	4 March 2005
6	<p>Public Lecture by the Honourable Tan Sri Dr. Hadenan A. Jalil, Auditor General on "Good Governance Towards Excellence" at the Centre for External Education, UPM</p>	5 July 2005

AKTIVITI PERINGKAT KEBANGSAAN

Bagi tujuan perkongsian kepakaran, pertukaran maklumat, perkongsian ilmu dan membina jaringan perhubungan pada peringkat kebangsaan, UPM telah menganjurkan seminar, persidangan dan bengkel seperti berikut:-

BIL.	TAJUK	TARIKH
1	Seminar "Exchange Rate Dynamics and Time to Equilibrium for the ASEAN Economies", Dewan Kuliah 3, Sekolah Pengajian Siswazah Pengurusan	5 Januari 2005
2	Seminar "Sehari Program Outreach Bersepadu Jabatan Pendidikan Tinggi Bersama IPTA kepada Kaunselor Sekolah Menengah dan Kolej Matrikulasi/Pusat Asasi Sains UM (PASUM)" di Pan Pacific Hotel, KLIA	8 - 9 Januari 2005
3	"Regional Symposium on Medicinal Plants and Anrap Board Meeting" di Dewan Persidangan Pusat Pendidikan Jarak Jauh	11 - 12 Januari 2005
4	Seminar "Share Price Reactions to Equity Rights Offerings under Different Economic Conditions" di Dewan Kuliah 3, Sekolah Pengajian Siswazah Pengurusan	12 Januari 2005
5	Laboratory Mathematical Science and Application (LMSA) Lecture Series, Institut Penyelidikan Matematik (INSPERM)	2 - 3 Feb 2005
6	Seminar teknikal ke-13, "Streaming Technology" di Bilik Mesyuarat Institut Multimedia & Perisian	3 Feb 2005
7	"Bengkel Semakan Pengkalan Data dan Penyediaan Laporan Analisis Kendiri Jaminan Kualiti IPTA di Hotel Royal Adelphi, Seremban	4 - 6 Feb 2005
8	Seminar IRPA "Seminar Kebangsaan Pendidikan Pelajar Berisiko" di Country Heights, Sports Living Club Kajang	19 Feb 2005
9	"Bengkel Pengurusan Risiko ke Atas Harta Benda" di Mines Beach Resort and Spa	24 Feb 2005
10	Forum Kewartawan 'Journalism in the New Millenium: New Frontiers and Challenges'.	1 Mac 2005
11	Seminar 'Diagnostic Kits for Animal Diseases: What Your Eyes Can't See, We Can'.	3 Mac 2005

ACTIVITIES AT NATIONAL LEVEL

In pursuit of sharing of expertise, exchange of information and networking at the national level, UPM has organised many seminars, conferences and workshop which are as follows:-

NO.	SUBJECT	DATE
1	Seminar on 'Exchange Rate Dynamics and Time to Equilibrium for the ASEAN Economies', 3rd Lecture Hall, School of Graduate Management	5 January 2005
2	One-day Seminar on "Integrated Outreach programme of the Higher Education Department together with the PIHL for Secondary School and Matriculation Colleges/Foundation Science Centres, UM (PASUM)" at Pan Pacific Hotel, KLIA	8 - 9 January 2005
3	"Regional Symposium on Medicinal Plants and Anrap Board Meeting" at the Centre for External Education, Conference Hall	11 - 12 January 2005
4	Seminar on "Share Price Reactions to Equity Rights Offerings under Different Economic Conditions" at 3rd Lecture Hall, Graduate School of Management	12 January 2005
5	'Laboratory Mathematical Science and Application (LMSA) Lecture Series', Institute of Mathematical Research (INSPEM)	2 - 3 Feb 2005
6	"13th Technical Seminar on Streaming Technology" at the Meeting Room, Institute of Multimedia and Software	3 Feb 2005
7	"Workshop Review on Databases and Preparation of Analytical Report on the Quality Assurance of PIHL" at Hotel Royal Adelphi, Seremban	4 - 6 Feb 2005
8	IRPA Seminar on "National Seminar on Education of Students at Risk" at Country Heights, Sports Living Club, Kajang	19 Feb 2005
9	'Workshop on Property Risk Management' at the Mines Beach Resort and Spa	24 Feb 2005
10	Forum on Journalism 'Journalism in the New Millenium: New Frontiers and Challenges	1 March 2005
11	Seminar on "Diagnostic Kits for Animal Diseases What Your Eyes Can't See, We Can."	3 March 2005

BIL.	TAJUK	TARIKH
12	Pre-Conference Workshop on 'Endorectal Ultrasound and Live Ano-Rectal Surgery' di Auditorium Pediatrik Aras 1, Institut Pediatrik Kuala Lumpur	3 Mac 2005
13	Colloquium on Theoretical Physics 2005 "Special Relativity: Charges at High Speed" 'Konsep Berbudi Bahasa Dalam Organisasi Kepimpinan Perspektif Orang Bawahan'.	4 Mac 2005
14	Bengkel Penyelidikan di Glory Beach Resort, Port Dickson	4 - 6 Mac 2005
15	'Workshop for e-SPRINT V.2: Documentation for the e-SPRINT V.2 Development Process di Institut Multi Media & Perisian	4 - 6 Mac 2005
16	Seminar Teknikal ke-14, 'Collaborative Knowledge Management Portal in Learning Organization' di Bilik Mesyuarat Institut Multimedia dan Perisian	7 Mac 2005
17	Seminar Jabatan Multimedia di Bilik Mesyuarat Fakulti Sains Komputer & Teknologi Maklumat	10 Mac 2005
18	Bengkel Penyelidikan di Glory Beach Resort, Port Dickson	11 - 13 Mac 2005
19	'Talk on The Evaluation and Benefits of a High Performance Biodegradable Lubricant from Palm Oil' di Dewan Taklimat	12 Mac 2005
20	Workshop On Orthopedic Radiology di Bilik Jemaah, Fakulti Perubatan Veterinar	12 Mac 2005
21	Seminar Luar Negara di Dewan Syarahan Veterinar, Fakulti Perubatan Veterinar	17 Mac 2005
22	Seminar Jabatan Sistem Maklumat di Bilik Mesyuarat Fakulti Sains Komputer & Teknologi Maklumat	22 Mac 2005
23	Seminar "Recent Advances In Animal Health And Production No. 28" di Dewan Syarahan Veterinar, Fakulti Perubatan Veterinar	28 Mac 2005
24	Seminar Keselamatan dan Kesihatan Pekerjaan UPM di IOI Resort Palm Garden	29 Mac 2005

NO.	SUBJECT	DATE
12	<i>Pre-Conference Workshop on Endorectal Ultrasound and Live Ano-Rectal Surgery at the Paediatrics Auditorium Level 1, Institute of Paediatrics, Kuala Lumpur</i>	3 March 2005
13	<i>Colloquium on Theoretical Physics 2005 "Special Relativity: Charges at High Speed" Concept of Courtesy in Organisational Leadership from the Perspective of Lower Level Employee</i>	4 March 2005
14	<i>Workshop on Research at Glory Beach Resort, Port Dickson</i>	4 - 6 March 2005
15	<i>"Workshop for e-SPRINT V.2: Documentation for the e-SPRINT V.2 Development Process" organised by Institute of Multimedia & Software</i>	4 - 6 March 2005
16	<i>Fourteenth Technical Seminar on Collaborative Knowledge Management Portal in Learning at the Meeting Room, Institute of Multimedia and Software</i>	7 March 2005
17	<i>Multimedia Department Seminar at the Meeting Room, Faculty of Computer Science and Information Technology</i>	10 March 2005
18	<i>Workshop on Research at Glory Beach Resort, Port Dickson</i>	11 - 13 March 2005
19	<i>"Talk on The Evaluation and Benefits of a High Performance Biodegradable Lubricant from Palm Oil" at the Briefing Hall</i>	12 March 2005
20	<i>Workshop On Orthopedic Radiology at the Jemaah Room, Faculty of Veterinary Medicine</i>	12 March 2005
21	<i>Overseas Seminar at the Veterinary Lecture Hall, Faculty of Veterinary Medicine</i>	17 March 2005
22	<i>Departmental Seminar on Information System at the Faculty of Computer Science & Information Technology</i>	22 March 2005
23	<i>Seminar on "Recent Advances In Animal Health And Production No. 28" at the Veterinary Lecture Hall, Faculty of Veterinary Medicine</i>	28 March 2005
24	<i>Seminar on Safety and Occupational Health in UPM at IOI Resort Palm Garden</i>	29 March 2005

BIL.	TAJUK	TARIKH
25	Seminar Sehari Sempena Ulang Tahun ke-3: "Peranan Ilmu Matematik dalam Industri Pertanian" di Dewan D' Tasik Hotel Residence, UNITEN Kajang	1 April 2005
26	Seminar Teknikal ke-15, Basic Knowledge Management di Institut Multimedia dan Perisian	5 April 2005
27	"A Regional Course in Swine Diseases" di Fakulti Perubatan Veterinar	7 - 9 April 2005
28	Seminar Kimia Industri ke-X di Palm Garden Hotel Putrajaya	
29	Bengkel Persediaan Pra-Kelahiran anjuran Pusat Kecemerlangan Keluarga, Remaja dan Kanak-kanak (FACE), Fakulti Ekologi Manusia dan Yayasan Wanita Islam	10 April 2005
30	Kursus Asas Keusahawanan Siswa (KAKS) Siri IV dan Latihan Keusahawanan Siswa LKS Modul 3,4,5	11 - 16 April 2005
31	Workshop for e-SPRINT v.2: Testing Plan for e-SPRINT v.2 anjuran Institut Multimedia dan Perisian	15 - 17 April 2005
32	Kursus Pengurusan Stress di Hotel Grand Continental Langkawi, Kedah	17 - 19 April 2005
33	Bengkel Pelajar Seni Bina ke-18 'Key T.A.R.' peringkat IPTA	18 - 22 April 2005
34	Bengkel Pengiktirafan Graduan Pertanian sebagai Ahli Profesional di Dewan Fakulti Pertanian	22 April 2005
35	Bengkel Penulisan Yang Berkesan di Hotel Residence, UNITEN	25 - 26 April 2005
36	Bengkel Pengajaran dan Penilaian Kursus Studio Program Bachelo Senibina Landskap di Corus Paradise Resort Port Dickson	1 Mei 2005
37	Perbincangan Awam Warga Kampus UPM Mengenai Keselamatan di Dewan Taklimat Bangunan Pentadbiran	4 Mei 2005

NO.	SUBJECT	DATE
25	One-day Seminar in conjunction with 3rd Annivesary: "The Role of Mathematical Knowledge in the Agriculture Industry" at the D'Tasik Hotel Residence	1 April 2005
26	15th Technical Seminar on "Basic Knowledge Management" at Institute of Multimedia and Software	5 April 2005
27	A Regional Course in Swine Diseases at the Faculty of Veterinary Medicine	7 - 9 April 2005
28	Seminar on Chemical Industry at Palm Garden Hotel Putrajaya	9 April 2005
29	Workshop on Pre-natal Preparation sponsored by Centre for Family, Adolescence and Children's Excellence, (FACE), Faculty of Human Ecology and Foundation for Muslim Women	10 April 2005
30	Course on Basic Graduate Entrepreneurship (KAKS) 4th Series and Graduate Entrepreneurship training LKS Module No. 3, 4 & 5	11 - 16 April 2005
31	Workshop for e-SPRINT v.2: Testing Plan for e-SPRINT v.2 organised by Institute of Multimedia and Software	15 - 17 April 2005
32	Stress management Course at Hotel Grand Continental Langkawi, Kedah	17 - 19 April 2005
33	'Key T.A.R.' 18th Architecture Students Workshop, PIHL Level	18 - 22 April 2005
34	Workshop on the Recognition of Agriculture Graduates as Professional at the Faculty of Agriculture	22 April 2005
35	Effective Writing Workshop at UNITEN	25 - 26 April 2005
36	Workshop on the Teaching and Evaluation of Studio Course of the Bachelor of Landscape Architecture at Corus Paradise Resort Port Dickson	1 May 2005
37	Public Discussion of the UPM Community on Security at the Briefing Hall, Administration Building	4 May 2005

BIL.	TAJUK	TARIKH
38	Seminar Mingguan INSPEM	6, 13, 20, 27 Mei 2005
39	Bengkel Pelan Strategi UPM di Hotel Equatorial Melaka	8 - 11 Mei 2005
40	Bengkel Pemacuan Penyelidikan, Perundingan dan Pengembangan Siri 1	17 - 18 Mei 2005
41	Seminar Webcast dalam Pengajaran Peringkat Kebangsaan di Dewan Seminar IDEAL	18 Mei 2005
42	Seminar Teknikal ke 16 Testing Plan for e-Learning System di Makmal F2 Institut Multimedia dan Perisian	12 Mei 2005
43	Seminar Linguistik dan Bahasa Melayu: Satu Penyelidikan Bahasa dan Sumbangan majalah dalam Penyebaran hasil Penyelidikan Bahasa di Dewan Persidangan Pusat Pendidikan Luar	28 Mei 2005
44	Seminar Isu-isu Komunikasi dan Teknologi di Dewan Persidangan IDEAL, UPM	2 Jun 2005
45	Seminar Mingguan INSPEM di Bilik Seminar Al-Khawarizmi, Bangunan Matematik	3, 10, 17, 24 Jun 2005
46	Kursus Penilaian Tahap Kecekapan (PTK) Kumpulan Pengurusan dan Profesional Akademik kali ke-3 tahun 2005 di Niosh Bangi dan Mines Beach Resort	20 - 27 Jun 2005
47	Latihan ISO semua Kakitangan Fakulti Pengajian Alam Sekitar di Bilik Seminar Alam Sekitar 2	8 Jun 2005
48	Seminar Teknikal ke-17, Video dalam Pengajaran di Bilik Mesyuarat Institut Multimedia dan Perisian	9 Jun 2005
49	Bengkel Pengurusan Stress di Bilik Al-Hadi, Fakulti Bahasa Moden dan Komunikasi	13 - 14 Jun 2005
50	Kursus Pengurusan Efektif untuk Penyelia di Bilik Al-Hadi, Fakulti Bahasa Moden dan Komunikasi	15 - 16 Jun 2005
51	Bengkel Penulisan Kreatif II - Cerpen di Bilik Seri Amar, Fakulti Bahasa Moden dan Komunikasi	15 - 16 Jun 2005

NO.	SUBJECT	DATE
38	INSPEM Weekly Seminar	6, 13, 20, 27 May 2005
39	UPM Strategic Planning Workshop at Hotel Equatorial Melaka	8 - 11 May 2005
40	Workshop on the Consolidation of Research, Consultancy and Extension - First Series	17 - 18 Mei 2005
41	Seminar on WebCast in Education at the National Level at the IDEAL Seminar Hall	18 May 2005
42	16th Technical Seminar on Testing Plan for e-Learning System at the F2 Laboratory, Institute of Multimedia and Software	12 May 2005
43	Seminar on Linguistics and Malay Language: A language Research and Contribution of Magazines in the dissemination of Language Research findings at the Conference Hall, Centre for External Education	28 May 2005
44	Seminar on the Communication and Technology Issues at the IDEAL Conference Hall, UPM	2 June 2005
45	INSPEM weekly seminar at the Al-khawarizmi Seminar Room, Mathematics Building	3, 10, 17, 24 June 2005
46	Third Course on the Evaluation of the Efficiency Level (PTK) of the Academic Professional and Management Group in 2005 at Niosh Bangi and Mines Beach Resort	20 - 27 June 2005
47	ISO Training for all the staff of Faculty of Environmental Studies at the Environment Seminar Room 2	8 June 2005
48	17th Technical Seminar - "Video in Education" at the Meeting Room, Institute of Multimedia and Software	9 June 2005
49	Stress Management Workshop at the Al-Hadi Room, Faculty of Modern Languages and Communication	13 - 14 June 2005
50	Effective Management Course for Supervisors at Al-Hadi Room, Faculty of Modern Languages and Communication	15 - 16 June 2005
51	Second Creative Writing workshop - Short story at Seri Amar Room, Faculty of Modern Languages and Communication	15 - 16 June 2005

BIL.	TAJUK	TARIKH
52	Kursus Asas Pengenalan Senamrobik di Kolej 11	17 - 19 Jun 2005
53	Bengkel Penggunaan High Performing Computing (HPC) INSPEM di Makmal INSPEM, Bangunan Matematik	21 - 22 Jun 2005
54	Seminar Persediaan Persaraan (Pegawai Sokongan) di Dewan Persidangan, Pusat Pendidikan Luar	22 - 23 Jun 2005
55	Bengkel Pengurusan Stres di Bilik Al-Hadi Fakulti Bahasa Moden & Komunikasi	15 - 16 Jun 2005
56	Kursus Pengurusan Efektif untuk Penyelia di Al-Hadi, Fakulti Bahasa Moden & Komunikasi	15 - 16 Jun 2005
57	Kursus Aplikasi Pendekatan Kaunseling dalam Pengurusan di Bilik Wahana, Fakulti Bahasa Moden & Komunikasi	15 - 16 Jun 2006
58	Kursus Keselamatan dan Kesihatan Pekerjaan di Ilham, Port Dickson, Kemahiran Komunikasi antara Doktor/Jururawat dengan Pesakit di Pusat Kesihatan Mahasiswa	19 25 Jun 2005
59	Kursus Kemahiran Komunikasi Interpersonal dalam Organisasi di Bilik Al-Hadi Fakulti Bahasa Moden & Komunikasi	21 - 22 Jun 2005
60	Kursus Kemahiran Komunikasi dan Perundingan di Bilik Al-Hadi Fakulti Bahasa Moden & Komunikasi	23 Jun 2005
61	Kursus Kemahiran Perundingan dalam Organisasi di Bilik Al-Hadi Fakulti Bahasa Moden & Komunikasi	28 Jun 2005
62	Kursus Kemahiran Pengucapan Awam di Bilik Wacana di Fakulti Bahasa Moden & Komunikasi	28 - 29 Jun 2005
63	Kursus Kemahiran dalam Perkhidmatan Kaunter dan Telefon di Bilik Al-Hadi Fakulti Bahasa Moden & Komunikasi	30 Jun 2005
64	Seminar Teknikal ke-18, Documentation for System Development di Bilik Mesyuarat Institut Multimedia dan Perisian	30 Jun 2005

NO.	SUBJECT	DATE
52	<i>Basic Introductory Course on Aerobics at 11th College</i>	17 - 19 June 2005
53	<i>Workshop on the Application of High Performing Computing (HPC) at INSPEM at the ISPEM Laboratory, Mathematics Building</i>	21 - 22 June 2005
54	<i>Retirement Preparation Seminar (Support Services) at the Conference Hall, Centre for External Education</i>	22 - 23 June 2005
55	<i>Stress Management Workshop at the Al-Hadi Room, Faculty of Modern Languages and Communication</i>	15 - 16 June 2005
56	<i>Effective Management Course for Supervisors, at Al-Hadi Room, Faculty of Modern Languages and Communication</i>	15 - 16 June 2005
57	<i>Application Course on Approach to Counselling in Management, Channel Room, Faculty of Modern Languages and Communication</i>	15 - 16 June 2006
58	<i>Safety and Occupational Health Course at Ilham, Port Dickson; Communication Skills between Doctor/Nurse and Patient at the Students Health Centre</i>	19 25 June 2005
59	<i>Interpersonal Communication Skills in Organisations at Al-Hadi Room, Faculty of Modern Language and Communication</i>	21 - 22 June 2005
60	<i>Communication and Consultation Skills Course at the Al-Hadi Room, Faculty of Modern Languages and Communication</i>	23 June 2005
61	<i>Course on Consultation Skills in Organisation Course at the Al-Hadi Room, Faculty of Modern Languages and Communication</i>	28 June 2005
62	<i>Public Speaking Skills Course at the Al-Hadi Room, Faculty of Modern Languages and Communication</i>	28 - 29 June 2005
63	<i>Counter Service and Telephone Skills Course at the Al-Hadi Room, Faculty of Modern Languages and Communication</i>	30 June 2005
64	<i>18th Technical seminar on Documentation for System Development at the Discussion Room, Institute of Multimedia and Software</i>	30 June 2005

BIL.	TAJUK	TARIKH
65	Bengkel Publisiti FEM 2005 di Bilik Seminar, Blok A, Fakulti Ekologi Manusia	4 Julai 2005
66	Siri Kursus Jangka Pendek INSPEM-'Hands-on Workshop on Design and Analysis of Experiments with SAS Application 1' di Makmal Al-Khaitam, Bangunan Matematik	4 Julai 2005
67	Bengkel ASP.Net di Makmal SE, Fakulti Sains Komputer dan Teknologi	5 Julai 2005
68	Seminar Penggunaan Peralatan Makmal 'Robotik Workstation' Application di Institut Interim Farmaseutikal dan Nutrasedutikal Bioteknologi	12 Julai 2005
69	Bengkel Mencanting Batik di Foyer Panggung Percubaan	23 Julai 2005
70	Forum Semarak Batik di Panggung Percubaan	23 Julai 2005
71	Seminar Mingguan INSPEM di Bilik Seminar Al-Khawarizmi Bangunan Matematik	5, 12, 19, 28 Ogos 2005
72	Seminar Kebangsaan e-Pembelajaran: Teknologi dan Aplikasi Sistem anjuran Institut Multimedia dan Perisian	13 - 14 Ogos 2005
73	Seminar Menginstitusikan Kaunseling di Institut Pengajian Tinggi Peringkat Kebangsaan dan Pelancaran Bangunan Kaunseling, Bahagian Hal Ehwal Mahasiswa di Panggung Percubaan, PKKSSAAS dan Bangunan Kaunseling	15 Ogos 2005
74	Seminar Kebangsaan e-Pembelajaran: Teknologi dan Aplikasi Sistem	16 - 18 Ogos 2005
75	Kursus Asas Keusahawanan Siswa (Siri 5) dan Latihan Keusahawanan Siswa (Modul 3.4 dan 5)	26 - 31 Ogos 2005
76	Seminar Bahasa Asing "Foreign Languages: A Plus Factor in Human Development" di Dewan Persidangan (IDEAL), Pusat Pendidikan Luar, UPM	29 - 30 Ogos 2005
77	Bengkel Pembelajaran Berpusatkan Pelajar (Student Centered Learning) di Dewan Pertanian, Fakulti Pertanian	29 - 30 Ogos 2005

NO.	SUBJECT	DATE
65	<i>FEM 2005 Publisiti Workshop at the Seminar Room, Block A, Faculty of Human Ecology</i>	4 July 2005
66	<i>INSPEM Short-term Course Series-Hands-on Workshop on Design and Analysis of Experiments with SAS Application at Al-Khaitam Laboratory, Mathematics Building</i>	4 - July 2005
67	<i>ASP.Net Workshop at the SE Laboratory, Faculty of Computer Science and Information Technology</i>	5 July 2005
68	<i>Seminar on Laboratory Equipment "Robotic Work Station Application" at the Interim Institute of Pharmaceutical and Nutraceutical Biotechnology</i>	12 July 2005
69	<i>Batik Making Workshop at the Experimental Theatre Foyer</i>	23 July 2005
70	<i>Forum on Glorious Batik at the Experimental Theatre</i>	23 July 2005
71	<i>INSPEM Weekly Seminar at the Al-Khawarizmi Seminar Room, Mathematics Building</i>	5,12,19,28 August 2005
72	<i>National Seminar on e-Learning System and Technology Application organised by the Institute of Multimedia and Software</i>	13 - 14 August 2005
73	<i>Seminar on Institutionalising of Counselling in PIHL, National Level and the Inauguration of the Counselling Building</i>	15 August 2005
74	<i>National Seminar on e-Learning: Technology and System Application</i>	16 - 18 August 2005
75	<i>Course on Basic Graduate Entrepreneurship (5th Series) and Graduate Entrepreneurship Training (Module 3,4 and 5)</i>	26 - 31 August 2005
76	<i>Foreign Language Seminar "Foreign Languages: A Plus Factor in Human Development" at the Conference Hall, Centre for External Education, UPM</i>	29 - 30 August 2005
77	<i>Student Centered Learning at the Agriculture Hall, Faculty of Agriculture</i>	29 - 30 August 2005

BIL.	TAJUK	TARIKH
78	Seminar Minggu INSPEM di Bilik Seminar Al-Khawarizmi Binaan Matematik	2, 9, 16, 23, 30 Sept 2005
79	Kursus Kepimpinan ke-23 Fasa I & II di Kolej Kedua dan Kem Lambaian Danau Jasin Melaka	3 - 8 Sept 2005
80	Bengkel Semakan Pengurusan SPK, Fakulti Pengajian Pendidikan di Prince Hotel KL	3 - 4 Sept 2005
81	Bengkel Pembelajaran Berpusatkan Pelajar (Student Centered Learning) - Fasa ke 2 Siri ke 7 di Dewan Pertanian Fakulti Pertanian	5 - 6 Sept 2005
82	Bengkel Eksplorasi Diri di DKAP, UPM	7 Sept 2005
83	Taklimat dan Forum Garis Panduan Kerja Ubah Suai, Baik Pulih dan Naik Taraf di Panggung Percubaan, UPM	7 Sept 2005
84	Bengkel Penyelarasan Modul di Dewan Seminar Fakulti Ekologi Manusia	8 Sept 2005
85	Bengkel e-SPRINT v.2: Pengujian Sistem di Bilik Mesyuarat Institut Multimedia dan Perisian	9 - 11 Sept 2005
86	Kursus Penilaian Etika Kerja untuk Pembantu Tadbir (Kesetiausahaan dan Perkeranian Operasi)	9 - 10 Sept 2005
87	Bengkel Sahsiah Gemilang di DKAP, UPM	10 Sept 2005
88	Seminar dan Pameran Warisan Melayu dan Peribumi dengan kerjasama Jabatan Muzium dan Antikuiti, Kementerian Kebudayaan, Kesenian dan Warisan di Unit Dokumentasi Warisan Melayu dan Sanggar Warisan, Fakulti Bahasa Moden dan Komunikasi	12 - 26 Sept 2005
89	Kursus Pemantauan dan Inventori Hidupan Liar (Burung dan Mamalia) di Akademi Hutan Hujan, UPM	13 - 15 Sept 2005
90	Olimpiad Matematik INSPEM ke 2 (IMMO II) 2005 di Dewan Kuliah 5 dan 6, Fakulti Sains	17 Sept 2005
91	Kursus Pengurusan Reventh di Kolej 11, UPM	17 - 18 2005

NO.	SUBJECT	DATE
78	<i>INSPEM Weekly Seminar, Al-Khawarizmi Seminar Room, Mathematics Building</i>	<i>2, 9, 16, 23, 30 Sept 2005</i>
79	<i>23rd Leadership Course - Phase I & II at the 2nd College and at Lambaian Danau Camp, Jasin, Malacca</i>	<i>3 - 8 Sept 2005</i>
80	<i>SPK Management Review Course Faculty of Educational Studies at the Prince Hotel K.L</i>	<i>3 - 4 Sept 2005</i>
81	<i>Student Centered Learning - 2nd Phase, 7th Series at the Faculty of Agriculture Hall</i>	<i>5 - 6 Sept 2005</i>
82	<i>Self Exploration Workshop at DKAP, UPM</i>	<i>7 Sept 2005</i>
83	<i>Briefing & Forum on Guidelines to Renovation, Repair and Upgrading Works at Experimental Theatre, UPM</i>	<i>7 Sept 2005</i>
84	<i>Streamlining Module Workshop at Seminar Hall, Faculty of Human Ecology</i>	<i>8 Sept 2005</i>
85	<i>e-Sprint V.2: System Testing Workshop at the Meeting Room, Institute of Multimedia and Software</i>	<i>9 - 11 Sept 2005</i>
86	<i>Work Ethics Evaluation Course for Administrative Assistants (Secretaryship and Clerical Operations)</i>	<i>9 - 10 Sept 2005</i>
87	<i>Workshop on Brilliant Personality at DKAP, UPM</i>	<i>10 Sept 2005</i>
88	<i>Seminar and Exhibition on Malay and Natives Heritage with the Cooperation of Muzium and Antiquities Department, Ministry of Culture, Arts and Heritage and Sanggar Warisan, Faculty of Modern Languages and Communication</i>	<i>12 - 26 Sept 2005</i>
89	<i>Course on Wildlife Observation and Inventory (Birds and Mammals) at the Rainforest Academy, UPM</i>	<i>13 - 15 Sept 2005</i>
90	<i>2nd INSPEM Mathematics Olympiad (IMMO II) 2005 at 5th and 6th Lecture Theatres, Faculty of Science</i>	<i>17 Sept 2005</i>
91	<i>Reventh Management Course, at 11th College, UPM</i>	<i>17 - 18 Sept 2005</i>

BIL.	TAJUK	TARIKH
92	Bengkel Pengurusan Emosi dan Peribadi di DKAP, UPM	24 Sept 2005
93	Bengkel Hala Tuju Askar Wataniah di IOI Resort Sepang	27 - 29 Sept 2005
94	Seminar "Biotechnology on Commercial Orchid Production" di UPM	29 Sept 2005
95	Bengkel e-SPRINT v.2: Pengujian Sistem oleh Pengguna di Bilik Institut Multimedia dan Perisian	30 Sept 2005
96	Bengkel Teknik Belajar di Bilik Khazanah Za'ba, Kolej Pendeta Za'ba	1 Okt 2005
97	Seminar Nilai-Nilai Murni Sesi Pertama 2005/2006 di Kolegiat Bima Sakti Kolej 13	1 Okt 2005
98	Seminar Isu-Isu Komunikasi Korporat di Dewan Za'ba Fakulti Bahasa Moden dan Komunikasi	2 Okt 2005
99	Bengkel Hala Tuju Aktiviti Akademi Hutan Hujan di Corus Paradise Resort	2 - 4 Okt 2005
100	Seminar Mingguan INSPEM di Bilik Seminar Al-Khawarizmi Bangunan Matematik	7, 14, 21, 28 Okt 2005
101	Konferens 'The 3rd Asia Pacific Conference on Reproductive and Sexual Health' di Sunway Pyramid Convention Centre Petaling	17-21 Nov 2005
102	Seminar Pendidikan Bahasa Dan Kemanusiaan (LaHE 2005) di Hotel Palm Garden, IOI Putrajaya	19 Nov 2005
103	Workshop on Thoracic Radiology di Fakulti Perubatan Veterinar	20 Nov 2005
104	Pameran Fakulti Sains & Pertandingan Fotografi di Ruang Legar Fakulti Sains	21-29 Nov 2005
105	Kursus Pemantauan & Inventori Hidupan Liar (Burung dan Mamalia) di Jabatan Perhutanan Negeri Kelantan	21 - 24 Nov 2005
106	National Human Resource Development Conference 2005 di Hotel Shangri-La, Putrajaya	28-30 Nov 2005
107	Syarahan Awam "Managing Project Efficiently and Without Conflict" di Akademi Hutan Hujan	2 Dis 2005

NO.	SUBJECT	DATE
92	<i>Emotional and Personal Management Workshop at DKAP, UPM</i>	
93	<i>Workshop on the Direction of Wataniah Soldier at IOI Resort, Sepang</i>	27 - 29 Sept 2005
94	<i>Seminar on "Biotechnology in Commercial Orchid Production" at UPM</i>	29 Sept 2005
95	<i>e-Sprint V.2: System Testing Workshop at the Meeting Room, Institute of Multimedia and Software</i>	30 Sept 2005
96	<i>Workshop on Learning Techniques at Khazanah Za'ba Room, Pendeta Za'ba College</i>	1 Oct 2005
97	<i>Seminar on Noble Values - 1st Session 2005/2006 at Bima Sakti Collegiate 13th College</i>	1 Oct 2005
98	<i>Seminar on Corporate Communication Issues, at Za'ba Hall, Faculty of Modern Languages and Communication</i>	2 Oct 2005
99	<i>Workshop on the Direction of the Activities of the Rainforest Academy, Corus Paradise Resort</i>	2 - 4 Oct 2005
100	<i>INSPEM Weekly Seminar at the Al-Khawarizmi Seminar Room, Mathematics Building</i>	7, 14, 21, 28 Oct 2005
101	<i>'The 3rd Asia Pacific Conference on Reproductive and Sexual Health' at the Sunway Pyramid Convention Centre Petaling Jaya</i>	17-21 Nov 2005
102	<i>Seminar on Teaching of Language and Humanities (LaHE 2005) at Hotel Palm Garden, IOI Putrajaya</i>	19 Nov 2005
103	<i>Workshop on Thoracic Radiology at Faculty of Veterinary Medicine</i>	20 Nov 2005
104	<i>Faculty of Science Exhibition and Photography Competition at the Faculty of Science Foyer</i>	21-29 Nov 2005
105	<i>Course on Observation and Inventory of Wildlife (Birds and Mammals) at Department of Forestry, Kelantan</i>	21 - 24 Nov 2005
106	<i>National Human Resource Development Conference 2005 at Hotel Shangri-La, Putrajaya</i>	28-30 Nov 2005
107	<i>Public Lecture on "Managing Project Efficiently and Without Conflict" at the Rainforest Academy</i>	2 Dec 2005

BIL.	TAJUK	TARIKH
108	Survei Konflik Gajah di Hulu Terengganu	3 Dis 2005
109	Seminar Sehari Lab Pendidikan dan Literasi Matematik Pendidikan di Bilik Seminar Al-Khawarizmi, Bangunan Matematik	7 - 8 Dis 2005
110	Kursus Pemantauan dan Inventori Hidupan Liar (Burung dan Mamalia) di Jabatan Perhutanan Negeri Kelantan	13-15 Dis 2005
111	LMT INSPEM Expository Lecture Series 2005: Fractal and Geometry di Bilik Seminar Al-Khawarizmi, Bangunan Matematik	13-15 Dis 2005
112	Seminar "Pembangunan Modal Insan Berkualiti melalui Pendidikan" di Hotel Renaissance Palm Garden Putrajaya	15 Dis 2005
113	Media Seminar On Active & Proactive Aging di Renaissance Kota Bharu Hotel Kelantan	17-18 Dis 2005
114	Bengkel untuk Tutor di Pusat Pendidikan Luar, UPM	17-19 Dis 2005
115	Kursus Diversiti Tumbuhan Terancam dan Pemuliharaan Hutan Hujan Malaysia di Akademi Hutan Hujan	21-23 Dis 2005

NO.	SUBJECT	DATE
108	<i>Survey on Elephant Conflict in Hulu Terengganu</i>	3 Dec 2005
109	<i>One-day Seminar on Education Lab and Mathematics Literacy Education at Al-Khawarizmi Seminar Room, Mathematics Building</i>	7 - 8 Dec 2005
110	<i>Course on Surveillance and Inventory of Wild Life, Birds and Mammals at the Forest Department, Kelantan</i>	13-15 Dec 2005
111	<i>LMT INPEM Expository Lecture Series 2005: Fractal and Geometry at Al-Khawarizmi Seminar Room, Mathematics Building</i>	13-15 Dec 2005
112	<i>Seminar on "Development of Model Being of Quality through Education" at Renaissance Hotel, Palm Garden, Putrajaya</i>	15 Dec 2005
113	<i>Media Seminar On Active & Proactive Aging at Renaissance Kota Bharu Hotel Kelantan</i>	17-18 Dec 2005
114	<i>Workshop for Tutors at Centre for External Education, UPM</i>	17-19 Dec 2005
115	<i>Course on "Diversity of Endangered Plants and Rehabilitation of Malaysian Rainforest" .at the Rainforest Academy</i>	21-23 Dec 2005

Prestasi Kewangan

Financial Performance

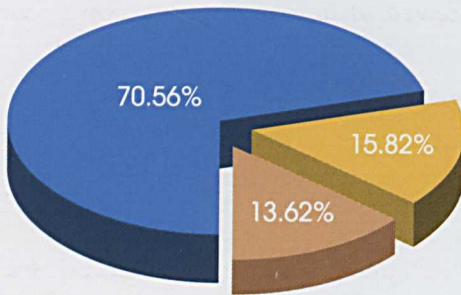
Pendapatan Kumpulanwang Disatukan

Keseluruhan pendapatan Universiti bagi tahun 2005 adalah sebanyak RM590.98 juta, meningkat RM83.42 juta (16.44%) berbanding RM507.56 juta pada tahun 2004. Daripada jumlah tersebut, sebanyak RM417.00 juta atau (70.56%) adalah daripada Geran Kerajaan, RM80.50 juta atau (13.62%) adalah daripada pelbagai yuran dan RM93.48 juta atau (15.82%) daripada pelbagai sumber lain.

Consolidated Fund's Income

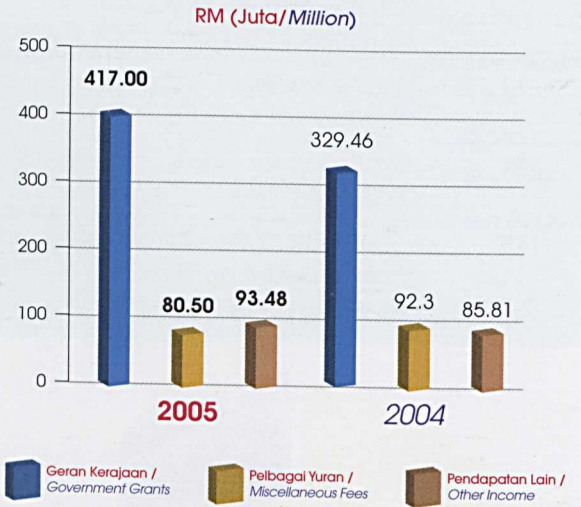
The total income of the University in 2005 was RM590.98 million, an increase of RM83.42 million (16.44%) compared to RM507.56 million in 2004. Out of this total, RM417.00 million (70.56%) was from Government Grants, RM80.50 million (13.62%) from Miscellaneous Fees and whereas RM93.48 million (15.82%) was from other sources.

SUMBER PENDAPATAN 2005
Sources of Income for 2005



- Geran Kerajaan / Government Grants
- Pelbagai Sumber Lain / Other Miscellaneous Sources
- Pelbagai Yuran / Miscellaneous Fees

PERBANDINGAN SUMBER PENDAPATAN
Comparison of Sources of Income



- Geran Kerajaan / Government Grants
- Pelbagai Yuran / Miscellaneous Fees
- Pendapatan Lain / Other Income

Perbelanjaan Kumpulanwang Disatukan

Perbelanjaan Universiti pada tahun 2005 adalah sebanyak RM560.29 juta berbanding RM593.00 juta pada tahun 2004, menurun RM32.71 juta (5.51%). Daripada jumlah perbelanjaan ini, sebanyak RM211.42 juta (37.73%) telah dibelanjakan untuk emolumen, RM96.13 juta (17.16%) untuk bekalan dan bahan-bahan, RM30.02 juta (5.36%) untuk penyelenggaraan dan pembaikan, RM128.06 juta (22.86%) untuk perkhidmatan iktisas dan hospitaliti dan RM94.66 juta (16.89%) untuk peruntukan susutnilai aset dan lain-lain.

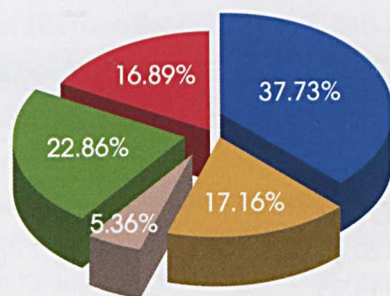
Pada tahun 2005, lebih pendapatan adalah RM30.69 juta berbanding kurangan pendapatan atau defisit sebanyak RM86.98 juta pada tahun 2004. Perbezaan ini adalah disebabkan oleh Geran Kerajaan bagi tahun 2005 telah diterima sepenuhnya berbanding pada tahun 2004.

Consolidated Fund's Expenditure

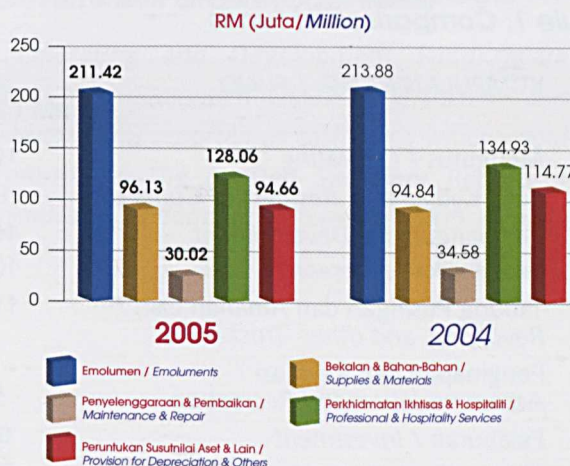
The University's Consolidated Expenditure in 2005 was RM560.29 million, a decrease of RM32.71 million (5.51%) compared to RM593.00 million in 2004. From this expenditure, a sum of RM211.42 million (37.73%) was for emoluments, RM96.13 million (17.16%) was for supplies and materials, RM30.02 million (5.36%) was for repairs and maintenance, RM128.06 million (22.86%) was for professional and hospitality services and RM94.66 million (16.89%) was for assets depreciation and others.

In 2005, the surplus income was RM30.69 million compared to the reduction of income or deficit of RM86.98 million in 2004. The reason for the difference was because the Government Grant for 2005 was received in full whereas in 2004 it was not.

PERBELANJAAN 2005
Expenditure for year 2005



PERBANDINGAN PERBELANJAAN 2004 / 2005
Comparison of Expenditure for year 2004 / 2005



Harta, Tanggungan dan Kumpulanwang Disatukan

Peningkatan aset tetap (termasuk aset tetap, pembinaan dalam kemajuan dan pelaburan) pada tahun 2005 adalah sebanyak RM112.48 juta atau 14.14%, iaitu RM907.89 juta pada tahun 2005 berbanding RM795.41 juta pada tahun 2004 dan terdapat penurunan aset semasa sebanyak RM67.80 juta atau 24.24%, daripada RM279.72 juta pada tahun 2004 berbanding RM211.92 juta pada tahun 2005.

Tanggungan semasa telah menurun daripada RM54.71 juta pada tahun 2004 berbanding RM41.59 juta pada tahun 2005.

Keseluruhan program dan aktiviti Universiti dibiayai oleh Kumpulanwang Disatukan berjumlah RM1,064.01 juta pada tahun 2005 berbanding RM1,006.08 juta pada tahun 2004, meningkat sebanyak RM57.93 juta atau 5.76%. Kumpulanwang Disatukan ini terdiri daripada sembilan (9) Kumpulanwang dan kumpulanwang-kumpulanwang yang tersebut adalah seperti di Jadual 1 di bawah.

Assets, Liabilities and Consolidated Fund

The immovable assets (including immovable assets, works in progress and investment) in 2005 increased by RM112.48 (14.14%) to RM907.89 million compared to RM795.41 million in 2004. The current assets saw a decrease of RM67.80 million (24.24%) from RM279.72 million in 2004 to RM211.92 in 2005.

Current liabilities had decreased from RM54.71 million in 2004 to RM41.59 million in 2005.

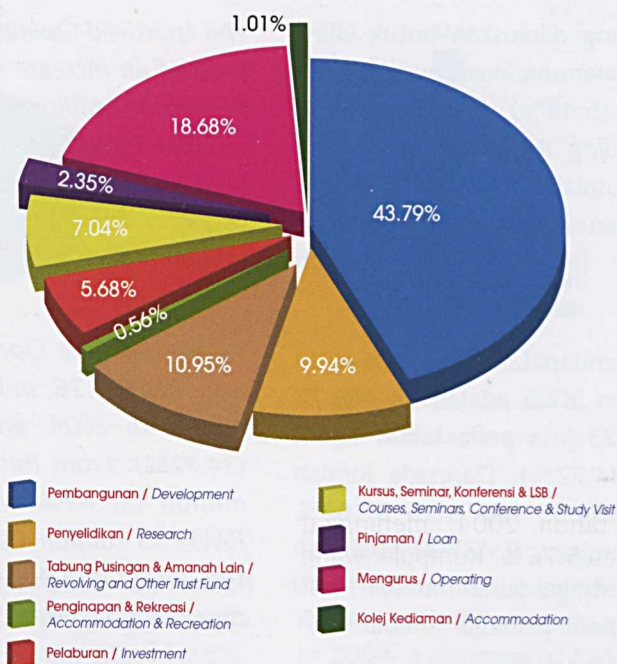
The whole of the University's programmes and activities was funded from the Consolidated Fund amounting RM1,064.01 million in 2005, an increase of RM57.93 million (5.76%) compared to RM1,006.08 in 2004. This Consolidated Fund comprised of 9 Funds as stated in Schedule 1 below.

**Jadual 1: Perbandingan Kumpulanwang /
Schedule 1: Comparison of Funds**

BIL.	KUMPULANWANG / FUND	2005 RM (JUTA/MIL)	2004 RM (JUTA/MIL)	PERBEZAAN/DIFFERENCE RM (JUTA/MIL)	(%)
1	Mengurus / Operating	198.74	159.00	39.74	24.99
2	Kolej Kediaman / Residential College	10.71	10.00	0.71	7.10
3	Pembangunan / Development	465.93	427.44	38.49	9.00
4	Penyelidikan / Research	105.73	120.49	(14.76)	(12.25)
5	Tabung Pusingan dan Amanah Lain / Revolving and other Trust Fund	116.57	115.55	1.02	0.08
6	Penginapan dan Rekreasi / Accommodation and Recreation	5.95	5.43	0.52	9.58
7	Pelaburan / Investment	60.45	55.78	4.67	8.37
8	Kursus, Seminar, Konferensi dan Lawatan Sambil Belajar / Course, Seminar, Conference & Study visit	74.93	87.39	(12.46)	(14.26)
9	Pinjaman Kenderaan / Vehicle Loan	25.00	25.00	0	0
	JUMLAH / TOTAL	1,064.01	1006.08	57.93	

KUMPULANWANG 2005

Funds 2005



Pendapatan dan Perbelanjaan Kumpulanwang Dibiayai dari Geran Kerajaan (Berasaskan Tunai - 'Cash Basis')

Kumpulanwang yang dibiayai dari Geran Kerajaan terdiri daripada Kumpulanwang Mengurus dan Kumpulanwang Pembangunan. Pendapatan dan perbelanjaan yang dilaporkan adalah berasaskan tunai yang mana boleh dirujuk di dalam Laporan Ringkasan Kedudukan Kewangan Dan Prestasi Tahun 2005 yang telah diaudit di mukasurat 209.

Income and Expenditure of Funds Financed by Government Grants (Cash Basis)

The Operating and Development Funds were financed by Government Grants. The Income and Expenditure was reported as cash basis which could be referred in the audited Summary Report of Financial and Performance Status in 2005 at page 209.

KUMPULANWANG MENGURUS

Pendapatan

Peruntukan Mengurus yang diluluskan untuk UPM bagi tahun 2005 telah menunjukkan peningkatan sebanyak RM11.21 juta (5.49%), iaitu RM445.38 juta tahun 2005 berbanding RM434.17 juta pada tahun 2004. Daripada jumlah ini, RM390.19 juta (89.87%) merupakan peruntukan geran kerajaan dan bakinya RM55.20 juta (10.13%) adalah daripada pendapatan lain.

Secara keseluruhannya, Pendapatan Mengurus UPM yang diterima pada tahun 2005 adalah RM450.26 juta berbanding RM334.23 juta pada tahun 2004, meningkat RM116.03 (34.72%). Daripada jumlah tersebut, sebanyak RM394.53 juta atau 87.62% adalah daripada geran kerajaan, RM37.33 juta atau 8.29% adalah daripada pelbagai yuran dan RM18.40 juta atau 4.09% pula daripada pelbagai sumber lain.

Jadual 2: Pendapatan Mengurus / Schedule 2: Operating Income

	2005		2004	
	RM (JUTA/MIL)	(%)	RM (JUTA/MIL)	(%)
Geran Kerajaan / Government Grants	394.53	87.62	287.89	86.13
Pelbagai Yuran / Miscellaneous Fees	37.33	8.29	41.33	12.36
Pendapatan Lain / Other Income	18.40	4.09	5.01	1.51
JUMLAH / TOTAL	450.26	100	334.23	100

OPERATING FUND

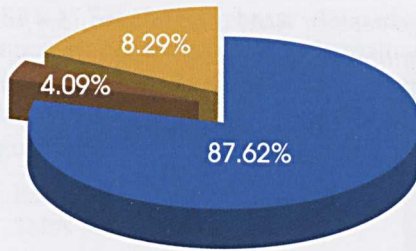
Income

The approved Operating allocation for UPM in 2005 showed an increase of RM11.21 million (5.49%) to RM445.38 million compared to RM434.11 million in 2004. From this, RM390.19 million (89.87%) was derived from Government Grants, RM37.33 million (8.29%) from Miscellaneous Fees and RM18.41 million (4.09%) was from other income.

As a whole, the Operating Income of UPM in 2005 was RM450.26 million compared to RM334.23 million in 2004, an increase of RM116.3 million (34.72%). From this amount, a total of RM394.53 million (87.62%) was from Government Grants, RM37.33 million (8.29%) was from miscellaneous fees and RM18.40 million (4.09%) was from other miscellaneous sources.

SUMBER PENDAPATAN 2005

Sources of Income for Year 2005



■ Geran Kerajaan / Government Grants
 ■ Pelbagai Yuran / Miscellaneous Fees
 ■ Pendapatan Lain / Miscellaneous Income

PERBANDINGAN SUMBER PENDAPATAN 2004 / 2005

Comparison of Expenditure for year 2004 / 2005



■ Geran Kerajaan / Government Grants ■ Pendapatan Lain / Other Income
 ■ Pelbagai Yuran / Miscellaneous Fees

Perbelanjaan

Perbelanjaan Mengurus tahun 2005 berjumlah RM405.80 juta berbanding RM410.57 juta pada tahun 2004, menurun RM4.76 juta atau 1.16%. Daripada jumlah perbelanjaan ini, sebanyak RM211.42 juta (52.10%) telah dibelanjakan untuk emolumen, RM68.10 juta (16.78%) untuk bekalan dan bahan-bahan, RM23.31 juta (5.74%) untuk penyelenggaraan dan pembaikan, RM60.03 juta (14.79%) untuk perkhidmatan ikhtisas dan hospitaliti dan RM42.94 juta (10.59%) untuk pembelian aset.

Expenditure

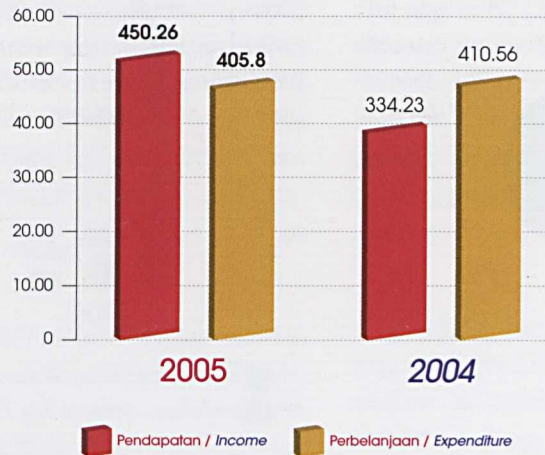
The operating expenditure for 2005 totaled RM405.80 million compared to RM410.57 million in 2004, a decrease of RM4.76 million (1.16%). Of this amount, RM211.42 million was expended on emoluments, RM68.10 million (16.78%) on supplies and materials, RM 23.31 million (5.74%) for maintenance and repairs, RM 60.03 million (14.79%) for professional and hospitality services whereas RM 42.94 million (10.59%) was for the purchase of assets.

Jadual 3: Perbelanjaan Mengurus / Schedule 3: Operating Expenditure

	2005		2004	
	RM (JUTA/MIL)	(%)	RM (JUTA/MIL)	(%)
Emolumen / Emolument	211.42	52.10	213.88	52.09
Bekalan dan Bahan-bahan / Supplies and Materials	68.10	16.78	65.14	15.86
Penyelenggaraan dan Pembaikan / Maintenance and Repairs	23.31	5.74	23.36	5.68
Perkhidmatan Ikhtisas dan Lain-lain / Professional Services & Others	60.03	14.79	51.76	12.6
Aset / Assets	42.94	10.59	56.42	13.77
JUMLAH / TOTAL	405.80	100	410.56	100

PERBANDINGAN PENDAPATAN & PERBELANJAAN MENGENAI 2005

Comparison of Operating Income & Expenditure for year 2005



KUMPULANWANG PEMBANGUNAN

Pendapatan

Jumlah peruntukan geran kerajaan yang diterima pada tahun 2005 bagi baki RMK-8 ialah sebanyak RM57.16 juta berbanding RM10.00 juta pada tahun 2004, meningkat RM47.16 juta (471.64%) dan peruntukan ini adalah bagi membiayai projek-projek yang dalam pelaksanaan.

DEVELOPMENT FUND

Income

The total Government Grant allocation received in 2005 for the balance of the Eighth Malaysia Plan period (RMK-8) was RM57.16 million compared to RM10.00 million in 2004, an increase of RM47.16 million (471.64%). This allocation was for funding projects currently being implemented.

**Jadual 4: Pendapatan Pembangunan /
Schedule 4: Development Income**

	2005		2004	
	RM (JUTA/MIL)	(%)	RM (JUTA/MIL)	(%)
Geran Kerajaan / Government Grants	57.16	98.49	10.00	82.88
Pendapatan Lain / Other Income	0.88	1.51	2.08	17.12
JUMLAH / TOTAL	58.04	100	12.08	100

Perbelanjaan

Perbelanjaan Pembangunan bagi tahun 2005 pula berjumlah RM135.36 juta berbanding RM160.92 juta pada tahun 2004, menurun RM25.56 juta (15.88%). Sebahagian besar daripada perbelanjaan merupakan pembinaan dalam kemajuan bagi projek-projek pembinaan dan antara projek-projeknya adalah seperti projek pembinaan bangunan-bangunan berikut:-

- (i) Bangunan Fakulti Perubatan dan Sains Kesihatan
- (ii) Bangunan Pusat Penyelidikan dan Pembangunan (R&D)
- (iii) Kompleks Kejuruteraan dan Teknologi Fasa 2B

Expenditure

The Development Expenditure for 2005 was RM135.36 million compared to RM160.92 million in 2004, a decrease of RM25.56 million (15.88%). A large section of the expenditure was for financing works in progress building projects. Among the building construction projects were as follows:

- (i) Faculty of Medicine and Health Sciences building
- (ii) Research and Development Centre (R&D) building
- (iii) The Engineering and Technology Complex Phase 2B

**Jadual 5: Perbelanjaan Pembangunan /
Schedule 5: Development Expenditure**

	2005		2004	
	RM (JUTA/MIL)	(%)	RM (JUTA/MIL)	(%)
Tanah, Bangunan dan Kemudahan/ <i>Land, Building and Facilities</i>	133.95	98.96	142.47	88.53
Perabot dan Alat-alat Kelengkapan / <i>Furniture & Fixtures</i>	0.45	0.34	0.09	0.05
Mesin dan Komputer / <i>Machines and Computers</i>	0.12	0.08	10.81	6.72
Kenderaan, Jentera dan Pembaikan / <i>Vehicles, Machineries and Repairs</i>	0.00	0.00	0.02	0.02
Perbelanjaan-perbelanjaan lain / <i>Other expenditures</i>	0.84	0.62	7.53	4.68
JUMLAH/TOTAL	135.36	100	160.92	100

Geran 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 2005 berjumlah RM37.62 juta, menurun RM5.64 juta (13.04%) berbanding RM43.26 juta pada tahun 2004. Sementara perbelanjaan keseluruhan pula adalah sebanyak RM48.79 juta, menurun RM4.52 juta (8.48%) berbanding RM53.31 juta pada tahun 2004.

Daripada jumlah pendapatan dan perbelanjaan tersebut, sebahagian besar adalah dari pembiayaan geran kerajaan untuk projek penyelidikan *Intensification of Research In Priority Areas (IRPA)*. Oleh itu fokus pelaporan adalah ke atas prestasi penyelidikan IRPA berasaskan pendapatan dan perbelanjaan tunai atau *Cash Basis*.

Jumlah keseluruhan pendapatan bagi penyelidikan IRPA pada tahun 2005 berjumlah RM27.33 juta berbanding RM36.43 juta pada tahun 2004, menurun sebanyak RM9.11 juta (23.64%). Daripada jumlah tersebut, sebanyak RM17.88 juta (65.43%) adalah dari geran kerajaan dan baki RM9.44 juta (34.57%) adalah dari sumbangan luar dan pendapatan yang lain.

**Jadual 5: Pendapatan Penyelidikan IRPA /
Schedule 5: IRPA Research Income**

	2005		2004	
	RM (JUTA/MIL)	(%)	RM (JUTA/MIL)	(%)
Geran Kerajaan / <i>Government Grants</i>	17.88	65.43	29.14	79.99
Sumbangan Luar / <i>External Contribution</i>	8.56	31.34	6.69	18.36
Pendapatan Lain / <i>Other Income</i>	0.89	3.23	0.60	1.65
JUMLAH / TOTAL	27.33	100	36.43	100

Research Grant

The University Research Fund comprised of research and consultancy projects financed through Government Grants and the Private Sector. Research Fund income in 2005 amounted RM37.62 million, a decrease of RM 5.64 million (13.04%) compared to RM 43.26 million in 2004. The total expenditure was RM 48.79 million, a decrease of RM 4.52 million (8.48%) compared to RM 53.31 million in 2004.

From the total of this income and expenditure, a big portion was from Government Grants for the research project known as Intensification of Research in Priority Areas (IRPA). Therefore, the focus of the report was on the IRPA research performance of income and expenditure or cash basis.

The total income for IRPA research in 2005 was RM27.33 million compared to RM36.43 million in 2004, a decrease of RM9.11 (23.64%). From this total amount, RM17.88 million (65.43%) was from Government Grants whereas the balance was from external sources and other income.

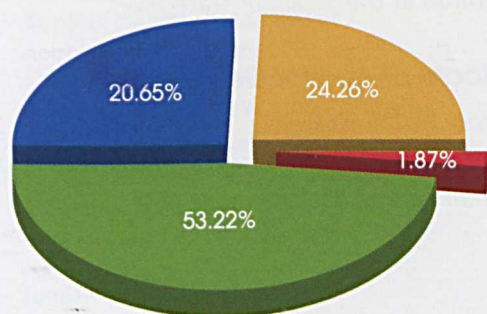
Jumlah Perbelanjaan Penyelidikan IRPA untuk tahun 2005 telah menurun sebanyak RM11.73 juta (21.84%), iaitu RM53.70 juta pada tahun 2004 kepada RM41.97 juta pada tahun 2005. Sebahagian besar perbelanjaan adalah untuk membiayai bayaran-bayaran akhir projek penyelidikan RMK-8.

The total IRPA Research Expenditure for 2005 decreased by RM 11.73 million (21.84%) from RM 53.70 million in 2004 to RM41.97 million in 2005. A large portion of the expenditure consisted of final payments for the Eighth Malaysia Plan research projects.

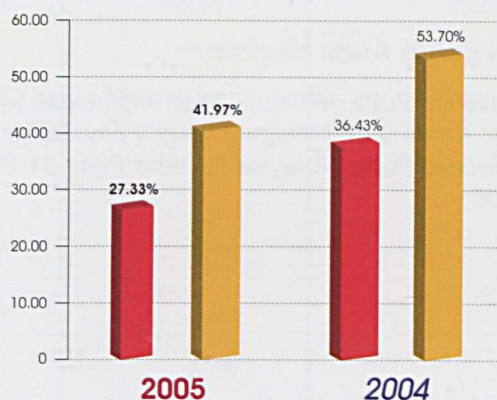
**Jadual 6: Perbelanjaan Penyelidikan IRPA /
Schedule 6: IRPA Research Expenditure**

	2005		2004	
	(RM JUTA/MIL)	(%)	(RM JUTA/MIL)	(%)
Bekalan dan bahan-bahan / Supplies & Materials	10.18	24.26	14.13	26.31
Penyelenggaraan dan pembaikan / Maintenance & Repairs	0.79	1.87	0.87	1.63
Perkhidmatan Ikhtisas dan lain-lain / Professional Services & others	22.34	53.22	25.15	46.83
Aset / Assets	8.66	20.65	13.55	25.23
JUMLAH / TOTAL	41.97	100	53.70	100

PERBELANJAAN IRPA 2005
IRPA Expenditure for Year 2005



PENDAPATAN & PERBELANJAAN IRPA
IRPA Income & Expenditure



Strategi Perbelanjaan

UPM telah memberi penekanan kepada pembangunan dan kemajuan sektor pertanian. Tindakan ini selaras dengan penekanan yang telah diberikan oleh kerajaan melalui strategi Bajet 2005 iaitu mempercepatkan peralihan ke arah ekonomi berasaskan nilai tambah yang tinggi dan membangun sumber tenaga mahir dengan menjadikan UPM sebagai pusat kecemerlangan pendidikan pertanian. Ekoran daripada itu, bidang pertanian UPM telah mendapat peruntukan belanja mengurus 2005 yang tertinggi, iaitu RM134.90 juta (31%) berbanding bidang-bidang lain seperti sains sebanyak RM81.60 juta (18%), sastera iktisas RM128.50 juta (29%), perubatan RM40.40 juta (9%) dan kejuruteraan RM60.02 juta (13%).

Selain daripada itu, Pejabat Bendahari juga sedang 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 penjanaaan dan pengurusan sumber kewangan secara cekap dan berkesan.

Anugerah Perkhidmatan Kaunter Pelanggan

Kaunter Khidmat Pelanggan, Pejabat Bendahari III telah mendapat tempat kedua semasa pertandingan kaunter kewangan badan-badan berkanun peringkat Negeri Selangor.

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 2005.

Expenditure Strategy

UPM had emphasised the development and progress of the agriculture sector. This thrust was in line with the emphasis given by the Government in the 2005 Budget Strategy which was to accelerate the transition of the economy to one based on increased added value and the development of skilled human resource by turning UPM into a Centre of Excellence for Agricultural Education. As a result, UPM agriculture sector received an increased operating expenditure of RM134.90 million (31%), compared to other field of studies such as Science which received RM81.60 million (18%), professional arts RM128.50 million (29%), Medicine RM40.40 million (9%) and Engineering RM60.02 million (13%).

Apart from this, the Bursary had taken initiatives to continually improve the quality of financial management to a level which fulfilled the expectation 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.

Anugerah Perkhidmatan Kaunter Pelanggan

Client Counter Service, Bursary III achieved second place during the statutory bodies financial counter competition at the Selangor state level.

Certificate of Auditor General

Universiti Putra Malaysia had received the Clean Certificate from the Auditor General for its Financial Statement ending 31 December 2005.

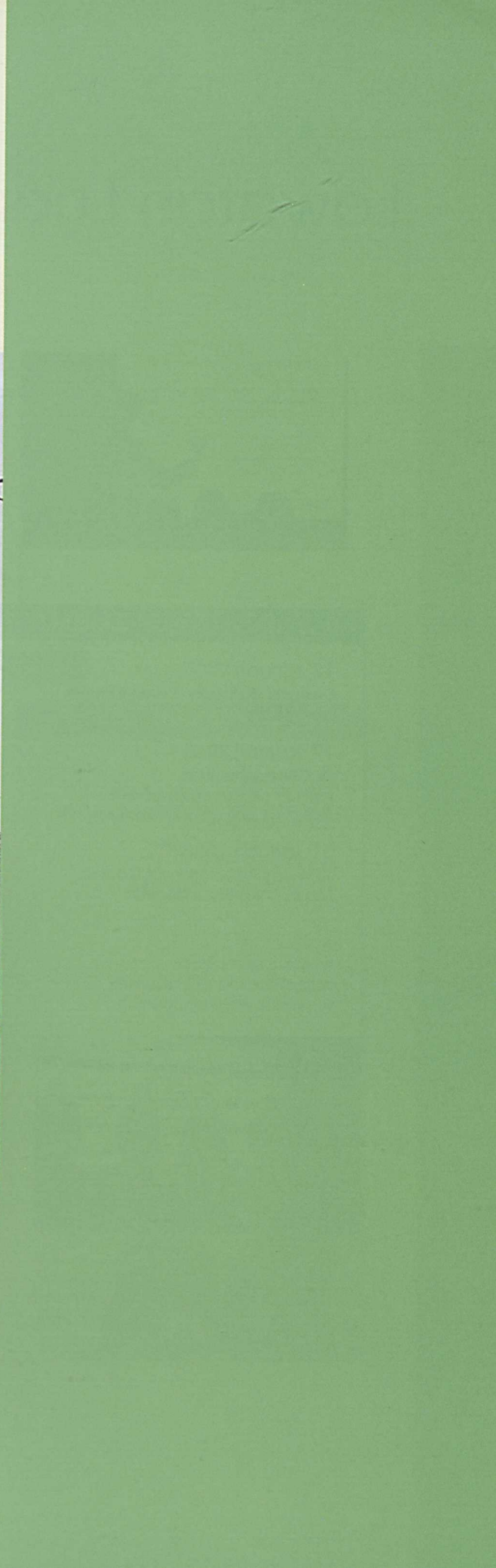
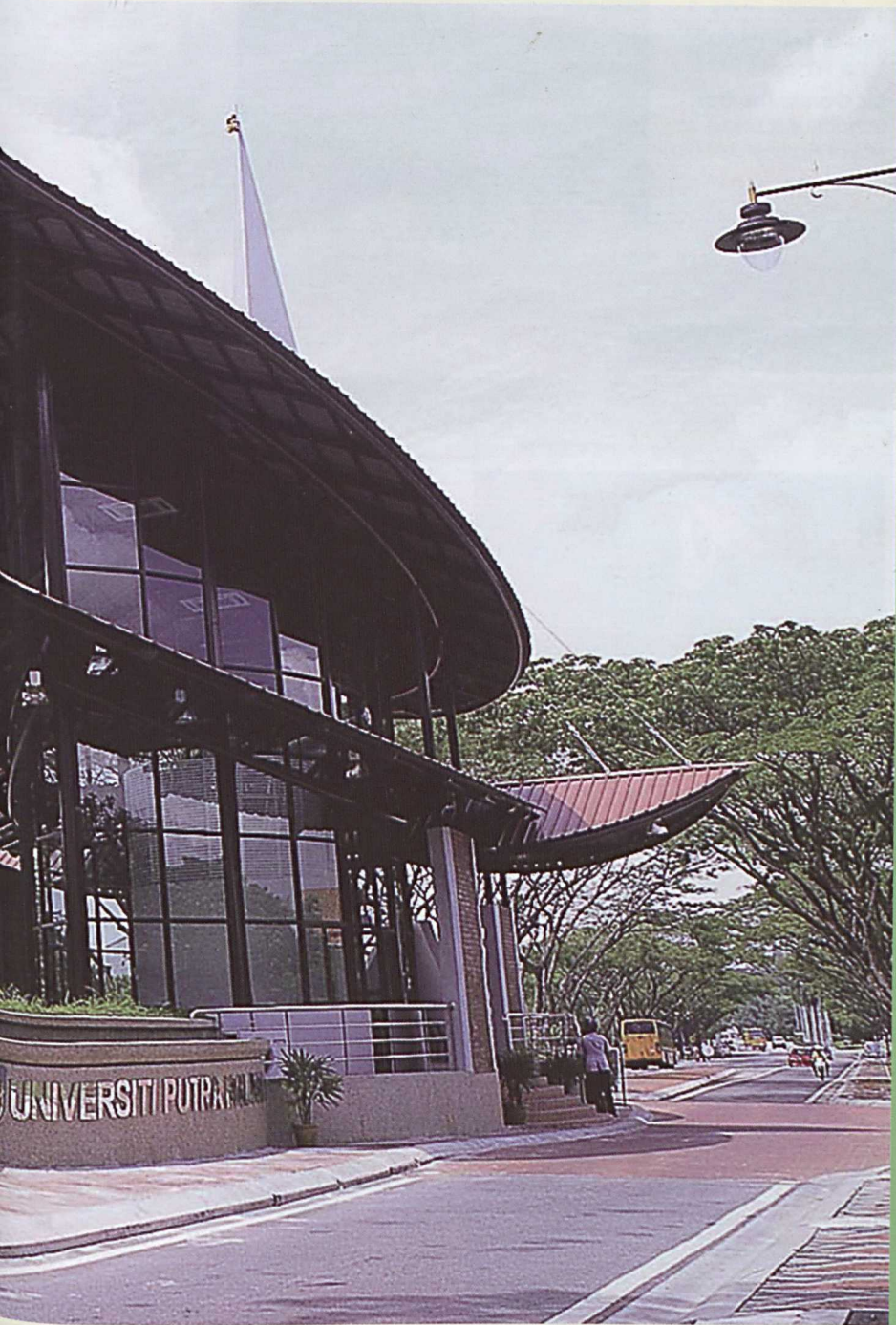
LAPORAN RINGKASAN KEDUDUKAN KEWANGAN DAN PRESTASI TAHUN 2005 (TELAH DIAUDIT) /
A SUMMARY REPORT OF THE FINANCIAL AND PERFORMANCE STATUS 2005 (AUDITED)

PERANGKAIAN KEWANGAN YANG PENTING / <i>IMPORTANT</i> <i>FINANCIAL STATISTICS</i>		TAHUN / <i>YEAR</i>		PERBEZAAN / <i>DIFFERENCE</i> (%) +(-)
		2005 (RM)	2004 (RM)	
i.	Pendapatan Mengurus / <i>Operating Income</i>			
	- Pemberian Kerajaan / <i>Government Grants</i>	394,528,570	287,888,227	37.04
	- Sumber Dalaman / <i>Internal Sources</i>	55,734,775	46,338,315	20.28
		450,263,345	334,226,542	34.72
	Pendapatan Pembangunan / <i>Development Income</i>			
	- Pemberian Kerajaan / <i>Government Grants</i>	57,164,172	10,000,000	471.64
	- Sumber Dalaman / <i>Internal Sources</i>	876,903	2,080,824	(57.86)
		58,041,075	12,080,824	380.44
ii.	Perbelanjaan / <i>Expenditure</i>			
	(a) Mengurus / <i>Operating</i>	405,803,621	410,565,492	(1.16)
	(b) Pembangunan / <i>Development</i>	135,358,702	160,915,202	(15.88)
iii.	Lebihan/Kurangan / <i>Surplus/Deficit</i>	541,162,323	571,480,694	(5.31)
	(a) Mengurus / <i>Operating</i>	44,459,724	(76,338,950)	(158.24)
	(b) Pembangunan / <i>Development</i>	(77,317,627)	(148,834,378)	(48.05)
		(32,857,903)	(225,173,328)	(85.41)
iv.	Lebihan/Kurangan Terkumpul / <i>Accumulated Surplus / Deficit</i>			
	(a) Mengurus / <i>Operating</i>	198,738,116	158,999,400	24.99
	(b) Pembangunan / <i>Development</i>	465,930,639	427,438,764	9.01
		664,668,755	586,438,164	13.34
v.	Aset Tetap / <i>Fixed Assets</i>	907,890,334	795,412,417	14.14
vi.	Aset Semasa / <i>Current Assets</i>	211,924,319	279,723,464	(24.24)
vii.	Tanggungan Semasa / <i>Current Liabilities</i>	41,588,425	54,708,109	(23.98)
viii.	Tanggungan Jangka Panjang / <i>Long Term Liabilities</i>	14,211,298	14,346,786	(0.94)
ix.	Aset Bersih / <i>Net Assets</i>	1,064,014,930	1,006,080,986	5.76
x.	Modal Digunakan / <i>Utilization of Capital</i>	170,335,894	225,015,355	(24.30)
xi.	Rizab Tunai / <i>Cash Reserve</i>			
	- Simpanan Tetap / <i>Fixed Deposits</i>	84,013,302	133,535,910	(37.09)
	- Wang di Bank / <i>Cash at Bank</i>	14,005,446	81,607,172	(82.84)
	- Wang Dalam Tangan / <i>Cash in Hand</i>	86,204	68,687	25.50
xii.	Penglibatan Modal / <i>Involvement of Capital</i>			
	- Kontrak diluluskan dan terikat / <i>Approved and executed Contracts</i>	92,862,640	208,237,927	(55.41)
	- Kontrak diluluskan dan belum terikat / <i>Approved and non-executed contracts</i>	0	0	0
xiii.	Nisbah Kewangan / <i>Financial Ratio</i>			
	- Aset Semasa/Tanggungan Semasa / <i>Current Asset/Current Liabilities</i>	5.10	5.11	
	- Aset Mudah Cair/Tanggungan Semasa / <i>Liquid Asset/Current Liabilities</i>	2.36	3.93	
	- Jumlah Hutang/Jumlah Aset / <i>Total Debt/Total Assets</i>	0.10	0.06	
	- Modal digunakan/Jumlah Tanggungan / <i>TOTAL EXPENDED / TOTAL LIABILITIES</i>	3.05	3.26	
	- Modal digunakan/Aset Tetap / <i>Capital Expended / Fixed Assets</i>	0.19	0.28	

Diari Peristiwa

Diary of Events





Lawatan Luar Negara



7 Januari 2005

Prof. W Paul Davies,
Vice Principal

Mr. Gareth Thomas,
School of Business
Royal Agricultural College, UK

JANUARI

12 Januari 2005

Delegasi daripada Universiti Brunei Darussalam

17 Januari 2005

Dr. Christopher Brett,
Institute Of Biomedical & Life Sciences, University Of Glasgow, UK

31 Januari 2005

Women's Association Of Gadjah Mada University, Indonesia



FEBRUARI



2 Februari 2005

Delegasi daripada University of China

4 Februari 2005

Delegasi daripada National Chung Sing University, Taiwan

15 Februari 2005

Delegasi daripada University of Airlangga, Indonesia

16 Februari 2005

Prof. K. Hostettman
University of Geneva

21 Februari 2005

Delegasi daripada Queensland University, Australia

22 Februari 2005

Prof. Shaukat A. Abdul Razak
Egerton University, Kenya
Delegasi daripada Maejo University, Thailand

25 Februari 2005

Delegasi daripada Kochi University, Japan





4 Mac 2005

Dr. Jeremy Hink
University Southampton, UK

MAC

9 Mac 2005

Prof. Roger Field,
Vice Chancellor

Mr. Geoff Ormandy,
Director
International Lincoln University,
New Zealand

10 Mac 2005

Delegasi daripada Benguet
University, Philippines

21 Mac 2005

Delegasi daripada Darul Ma'arif,
Thailand

23 Mac 2005

H.E Ignacio Gonzalez Planas,
Minister of Informatics and
Communication, Republic of Cuba
dan delegasi

24 Mac 2005

Prof. Luo Yunbo
China Agriculture University

28 Mac 2005

Delegasi daripada Saudi Arabia
Higher Education



APRIL

11 April 2005

Prof. Micheal E. Manus,
Executive Dean,
Faculty of Biological &
Chemical Sciences
University of Queensland,
Australia

15 April 2005

Prof. Philip J. Jones,
Welsh School of Architecture
Cardiff University, Wales, UK

26 April 2005

Delegasi daripada Taiwan
International Graduate Program,
Academia Sinica, Taiwan





26 April - 4 Mei 2005

Delegasi daripada College Of Computer Sciences & Information Technology, Sudan

3 Mei 2005

Delegasi pelajar daripada University Of Groningen, The Netherlands
Prof. Malory Nye Al-Maktoum
Institute For Arabic & Islamic Studies, UK

6 Mei 2005

Delegasi daripada Fakultas Pertanian, Universitas Padjajaran, Indonesia



19-25 Jun 2005

Prof. Maurice McDonald
Iowa State University Of Science & Technology, US

MEI

16-21 Mei 2005

Prof. Dr. Richard A. Reid
South Dakota State University

20 Mei 2005

Prof. Mary Ritter
Imperial College London

25 Mei 2005

Prof. Edward Twizell
Brunel University, UK

31 Mei 2005

Prof. Kevin McKenna
Curtin University of Technology, Australia

31 Mei 2005

Delegasi pelajar antarabangsa bagi program 'International Student From Malaysian Cultural Learning Experience 2005 '(Miracle - UPM Aiesec Club)'

JUN



JULAI

3 - 4 Julai 2005

Prof. Larry N. Vanderhoef,
Chancellor
Prof. Dr. Maril Revette Startton,
Assistant Chancellor for Communications
Prof. Dr. William B. Lacy,
Vice Provost
Dr. Robert A. Kerr, Director,
International Alumni & Visit Programs
University California, Davis, US

8 Julai 2005

Delegasi daripada Cambridge Malaysia Committee

12-15 Julai 2005

Delegasi daripada ASIA LINK

15 Julai 2005

Dr. Arsenio Balisacan
Searca / Philippines

22 Julai 2005

Delegasi daripada Maejo University, Thailand





17-21 Ogos 2005

18th University Consortium
(Executive Officer & Coordinators
SERACA Meeting)

20 Ogos 2005

Rombongan Anak-Anak Yatim
Aceh

21 - 25 Ogos 2005

Prof. Joseph Troisi
University of Malta, Malta

OGOS



25 -26 Ogos 2005

Prof. Rosemary Cafarella
Cornell University, US

30 Ogos 2005

Dr. Derek Newman
Lincoln University, New Zealand



1 September 2005

Delegasi daripada Bogor
Agricultural University, Indonesia

5 September 2005

Prof. John S Mackenzie
(ASM Award for Scientific Excellent)
University of Western, Australia

5 - 8 September 2005

Dr. Abdolhossein Taheri
Dr. Taghi Tabarsa
Gorgan University, Iran

SEPTEMBER

7 September 2005

Delegasi daripada Majlis
Kebangsaan Pengiktirafan
Kelulusan Negara Brunei

16 September 2005

Prof. Dr. Iraj Malek Mohammadi
College of Agriculture, University of
Tehran

16 September 2005

Delegasi daripada Faculty of Law &
Economics, Chiba University, Japan

19 September 2005

Delegasi daripada Bank Dunia
Fakulti Kesihatan Awam, Universiti
Hasanuddin, Indonesia

26 September 2005

Delegasi daripada Water Resources
University's Second Campus,
Vietnam

27 September 2005

Delegasi Misi Khas Kedutaan
Belgium

28 September 2005

Mr. Azm Obaidullah - Director,
Student Affairs Division
Mr. Murtaza Ahmed - Director,
Academic Affairs Division
International Islamic University Of
Chittagong, Bangladesh



10 Oktober 2005

Delegasi daripada Medical University Of Vienna, Austria

12 Oktober 2005

Delegasi daripada Thaksin University, Thailand

17 Oktober 2005

Delegasi daripada International Association Of Students In Agriculture & Related Science (IAAS-Denmark)



15 November 2005

Prof. Richard Kitney
London Imperial College

17 November 2005

Prof. J. Farhaodi
University Of Tehran, Iran

22 November 2005

Delegasi daripada Kyushu Institute Of Technology, Japan

23 November 2005

Delegasi daripada National Institute For Environmental Studies (NIES), Japan

OKTOBER

10 Oktober 2005

Delegasi daripada Medical University Of Vienna, Austria

12 Oktober 2005

Delegasi daripada Thaksin University, Thailand

17 Oktober 2005

Delegasi daripada International Association Of Students In Agriculture & Related Science (IAAS-Denmark)

26 Oktober 2005

Delegasi daripada University Of Buenos Aires, Argentina

27 Oktober 2005

Delegasi daripada Vietnam Ministry Of Education & Training



NOVEMBER



DISEMBER

13 Disember 2005

Delegasi daripada Institut Pengajian Tinggi Al-Zuhri, Singapura

21 Disember 2005

Prof. Pierre Steinmetz,
Deputy VC for Technology Transfer
Universite Henri Poincare, Nancy 1,
France

30 Disember 2005

Tuan Hj. Amha Buang,
Director, International Tropical
Timber Organization



Lawatan Dalam Negeri



27 Januari 2005

Lawatan pelajar-pelajar dari SMK Dato' Setia/Sedia Raja Rembau Negeri Sembilan



JANUARI



FEBRUARI

15 Februari 2005

Lawatan pegawai-pegawai dari Kementerian Kewangan, Kementerian Pengajian Tinggi Malaysia dan Unit Perancang Ekonomi ke Fakulti Pertanian





4 Mac 2005

Lawatan pelajar-pelajar dari Kolej Matrikulasi Kedah

8 Mac 2005

Lawatan Pelajar-pelajar dari SMK Dato' Syed Ahmad, Kuala Nerang Kedah ke Fakulti Pertanian

12 Mac 2005

Lawatan pelajar-pelajar dari SK Paloh Hinan Pekan Bandar Di Raja Pahang

29 Mac 2005

Lawatan pelajar-pelajar SMK Seri Intan Machang Kelantan ke Bangunan Pentadbiran dan Fakulti Pertanian



1 April 2005

Lawatan pelajar-pelajar dari Kolej Jaiputra ke Bangunan Pentadbiran UPM dan sesi taklimat dari Bahagian Akademik

9 April 2005

Lawatan pelajar-pelajar dari SMK Batu Anam Segamat Johor ke Perpustakaan Abdul Samad

11 April 2005

Lawatan pelajar-pelajar dari SMK ST. Paul Jalan Tan Sri Manickavasagam, Seremban ke Fakulti Perubatan dan Sains Kesihatan dan Fakulti Perubatan Veterinar

MAC

30 Mac 2005

Lawatan pelajar-pelajar dari SMK Dato' Mohd Said Nilai Negeri Sembilan ke sekitar UPM

Lawatan pelajar-pelajar dari SMK Sultan Abdullah, Chederong Balai Perak ke Bangunan Pentadbiran dan sesi taklimat dari Bahagian Akademik



APRIL

14 April 2005

Lawatan pelajar-pelajar dari SMK Cheneh Baru, Kemaman Terengganu ke Fakulti Bahasa Moden dan Komunikasi dan Fakulti Ekonomi dan Pengurusan

15 April 2005

Lawatan pelajar-pelajar dari SMK Seri Mahkota Umbai, Merlimau Melaka ke Fakulti Pertanian dan Fakulti Sains dan Teknologi Makanan

20 April 2005

Lawatan pelajar-pelajar dari SMK Pasir Panjang Port Dickson ke Fakulti Pertanian dan Fakulti Sains Teknologi Makanan

22 April 2005

Lawatan pelajar-pelajar dari SMK Kuala Jengal Dungun Terengganu ke Bangunan Pentadbiran dan taklimat dari Bahagian Akademik

27 April 2005

Lawatan pelajar-pelajar dari SMK Selayang Baru Batu Cave ke Bangunan Pentadbiran dan Fakulti Ekonomi



27 April 2005

Lawatan pelajar-pelajar dari SMK Orang Kaya Haji Kuala Lipis Pahang ke Fakulti Perubatan dan Sains Kesihatan, Fakulti Pengajian Alam Sekitar dan Fakulti Pertanian

28 April 2005

Lawatan pelajar-pelajar dari SMK Engku Husain ke Fakulti Perubatan Veterinar dan Fakulti Pertanian

APRIL



30 April 2005

Lawatan pelajar-pelajar dari SMK Hutan Melintang, Perak ke Fakulti Perubatan dan Sains Kesihatan dan Fakulti Perhutanan



6 Mei 2005

Lawatan Pelajar-pelajar dari Puteri Nursing College Sdn. Bhd. Petaling Jaya ke Fakulti Perubatan Sains Dan Kesihatan

26 Mei 2005

Lawatan Pelajar-pelajar dari SMK Bukit Selambau Sungai Petani Kedah ke Fakulti Rekabentuk dan Senibina dan Institut Biosains

28 Mac 2005

Lawatan Pelajar-pelajar dari SMK Hamzah Machang Kelantan ke Fakulti Sains Komputer dan Teknologi Maklumat dan Perpustakaan Abdul Samad

MEI

30 Mei 2005

Lawatan pelajar-pelajar dari SMK Khir Johari Beranang Selangor ke Bangunan Pentadbiran dan Fakulti Kejuruteraan

Mei 2005

Lawatan pelajar-pelajar dari SMK Tanjung Datuk Pengerang Johor ke Fakulti Ekonomi dan Pengurusan dan Fakulti Bahasa Moden dan Komunikasi

31 Mei 2005

Lawatan International Student from Malaysian Cultural Learning Experience 2005 (Miracle-UPM Aisec Club)





24 Jun 2005

Lawatan Kolej Universiti Sains dan Teknologi Malaysia (KUSTEM) Kuala Terengganu ke Fakulti Bahasa Moden dan Komunikasi

28 Jun 2005

Lawatan Sekolah Menengah Kebangsaan Abu Bakar Temerloh Pahang ke Fakulti Ekonomi dan Pengurusan dan Fakulti Bahasa Moden dan Komunikasi

JUN

1 Jun 2005

Lawatan Sekolah Menengah Sultan Alauddin Riayat Shah 1, Pagoh, Muar ke Fakulti Sains Alam Sekitar

2 Jun 2005

Lawatan Sekolah Kebangsaan Sungai Sireh, Tanjung Karang, Selangor ke Taman Pertanian Universiti

14 Jun 2005

Lawatan Sekolah Menengah Teknik Vokasional Dato' Lela Maharaja, Rembau Negeri Sembilan ke Fakulti Pertanian dan Fakulti Kejuruteraan

16 - 18 Jun 2005

Lawatan Sekolah Menengah Kebangsaan Perwira Jaya, Muadzam Shah, Pahang ke Fakulti Fakulti Bioteknologi dan Sains Biomolekul, Perpustakaan Abdul Samad dan PALAPES

21 Jun 2005

Lawatan Maktab Perguruan Kuala Terengganu Batu Rakit Kuala Terengganu ke Fakulti Sains Komputer dan Teknologi Maklumat

23 Jun 2005

Lawatan Sekolah Menengah Kebangsaan Seri Mersing Johor ke Jabatan Muzik, Fakulti Ekologi Manusia

JULAI



8 Julai 2005

Lawatan Lembaga Pengawas Sekolah Raja Perempuan Ta'ayah Ipoh Perak ke Bangunan Pentadbiran

8 Julai 2005

Lawatan Sekolah Menengah Kebangsaan Raja Tun Uda Pulau Pinang ke Fakulti Kejuruteraan

16 Julai 2005

Lawatan Persatuan Puteri Islam Sekolah Menengah Agama Teluk Kemang Port Dickson ke Pameran Batik Minggu Semarak Batik

19 Julai 2005

Lawatan Kolej Matrikulasi Negeri Sembilan Kuala Pilah ke Fakulti Sains dan Teknologi Makanan

29 Julai 2005

Lawatan Sekolah Menengah Kebangsaan Hamzah Machang Kelantan ke Fakulti Bahasa Moden dan Komunikasi



11 Ogos 2005

Lawatan Sekolah Menengah Teknik Johor Bahru ke Fakulti Sains dan Teknologi Makanan

12 Ogos 2005

Lawatan Persatuan Bahasa Cina Sekolah Menengah Kebangsaan Tengku Mahkota ke Fakulti Perubatan Veterinar dan sekitar kampus

26 Ogos 2005

Lawatan Kolej Teknologi Bestari Puterajaya Terengganu ke Fakulti Ekonomi dan Pengurusan dan Perpustakaan Abdul Samad

6 Sept 2005

Lawatan Ketua-ketua Audit IPTA ke sekitar kampus

14 Sept 2005

Lawatan Sekolah Menengah Teknik Johor Bahru ke Fakulti Perubatan dan Sains Kesihatan dan Fakulti Bioteknologi dan Sains Biomolekul,

OGOS**13 Ogos 2005**

Lawatan Sekolah Menengah Kebangsaan Triang 3 Pahang Darul Makmur ke Fakulti Kejuruteraan dan Fakulti Pengajian Pendidikan

22 Ogos 2005

Lawatan Sekolah Menengah Jenis Kebangsaan Pei Yuan Kampar Perak ke Fakulti Perubatan dan Sains Kesihatan dan Fakulti Perubatan Veterinar

23 Ogos 2005

Lawatan Sekolah Menengah Kebangsaan Taman Ria Jaya Sungai Petani Kedah ke Fakulti Pertanian dan Fakulti Rekabentuk dan Senibina

23 Ogos 2005

Lawatan Professional ICT Academy, Melaka ke Institut Teknologi Maju

23 Ogos 2005

Lawatan Sekolah Menengah Kebangsaan Senggarang Johor ke Fakulti Ekonomi dan Pengurusan, Perpustakaan Abdul Samad dan sekitar kampus

24 Ogos 2005

Lawatan Sekolah Memengah Kebangsaan FELDA Ulu Tebrau Johor ke Fakulti Pertanian

**SEPTEMBER****26 Sept 2005**

Lawatan Sekolah Menengah Kebangsaan Seksyen 4 Bandar Kinrara Puchong ke Fakulti Pengajian Pendidikan dan Perpustakaan Abdul Samad

Lawatan Sekolah Menengah Teknik Tunku Abdul Rahman Putra, Pulau Pinang ke Fakulti Kejuruteraan



OKTOBER

13 Okt 2005

Lawatan dari Sekolah Menengah Kebangsaan Khatolik Bentong Pahang ke Fakulti Veterinar, Fakulti Bioteknologi dan Sains Biomolekul,

17 Okt 2005

Lawatan Sekolah Menengah Jenis Kebangsaan Yu Hua Selangor Darul Ehsan ke Fakulti Bioteknologi dan Sains Biomolekul,

20 Okt 2005

Lawatan Sekolah Menengah Kebangsaan Jalan Kebun Shah Alam ke Fakulti Perubatan dan Sains Kesihatan dan Fakulti Bioteknologi dan Sains Biomolekul

22 Okt 2005

Lawatan Sekolah Menengah Jenis Kebangsaan Yu Hua Selangor ke Fakulti Pertanian

**16 Nov 2005**

Lawatan dari Sekolah Menengah Jenis Kebangsaan Sam Tet Ipoh

NOVEMBER



Laporan Keuangan
Financial Report



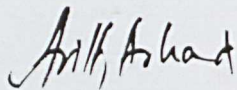
Sijil Ketua Audit Negara Mengenai Penyata Kewangan Universiti Putra Malaysia

BAGI TAHUN BERAKHIR 31 DISEMBER 2005

Penyata kewangan Universiti Putra Malaysia bagi tahun berakhir 31 Disember 2005 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 2005, hasil operasi dan aliran tunainya untuk tahun tersebut berdasarkan piawaian perakaunan yang diluluskan.



(DATO' AZIZAH BT. HJ. ARSHAD)
b.p. KETUA AUDIT NEGARA
MALAYSIA

PUTRAJAYA
24 JULAI 2006



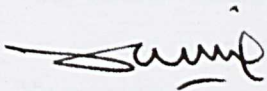
Penyata Lembaga Pengarah

Board of Directors Statement

Kami, **TAN SRI DATO' SERI DR. HJ. ZAINUL ARIFF BIN HAJI HUSSAIN** dan **PROFESOR DR. NIK MUSTAPHA BIN R. ABDULLAH** yang merupakan Ahli Lembaga Pengarah UNIVERSITI PUTRA MALAYSIA, dengan ini menyatakan bahawa Penyata Kewangan dari mukasurat 227 hingga 262 adalah disediakan untuk menunjukkan pandangan yang benar dan saksama berkenaan kedudukan kewangan UNIVERSITI PUTRA MALAYSIA pada 31 Disember 2005 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 DR. NIK MUSTAPHA BIN R. ABDULLAH as members of the Board of Directors of UNIVERSITI PUTRA MALAYSIA do hereby state that the Financial Statement set out on pages 227 to 262 have been drawn up to give a true and fair view of the financial position of UNIVERSITI PUTRA MALAYSIA as at 31 December 2005 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)
Pengerusi/Chairman



(PROFESOR DR. NIK MUSTAPHA BIN R. ABDULLAH)
Ahli/Naib Canselor / Member/Vice-Chancellor

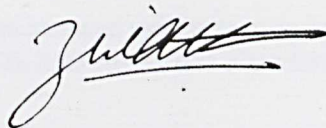
UPM Serdang
Tarikh: / Date: 28 April 2006

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 227 hingga 262, 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 227 to 262 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.

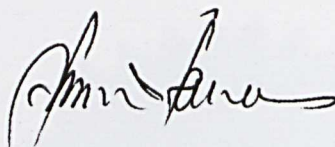
Sebenar dan sesungguhnya)
diakui oleh penama di atas)
di Mahkamah Sesyen Bandar)
Baru Bangi, Selangor pada)
28 April 2006)



ZULKIFLEE BIN OTHMAN
Pemangku Bendahari/Acting Bursar

Truly and solemnly declared)
by the abovenamed at)
Mahkamah Sesyen Bandar Baru)
Bangi, Selangor on 28 April 2006)

Di hadapan saya: /
Before me:



Pesuruhjaya Sumpah
(Commissioner For Oath)
Mahkamah Sesyen & Majistret
Bandar Baru Bangi

28 APR 2006

Lembaran Imbangan PADA 31 DISEMBER 2005

Balance Sheet AS AT 31 DECEMBER 2005

	NOTA/ NOTE	2005 RM	2004 RM
ASET TETAP / FIXED ASSETS	5	668,592,778	655,111,370
PEMBINAAN DALAM KEMAJUAN / WORK IN PROGRESS	6	198,913,538	119,531,071
PELABURAN / INVESTMENT	7	40,384,018	20,769,976
ASET SEMASA / CURRENT ASSETS			
Penghutang pelbagai / <i>Sundry debtors</i>	8	113,819,367	64,511,695
Simpanan tetap / <i>Fixed deposits</i>	9	84,013,302	133,535,910
Wang di tangan dan di bank / <i>Cash in hand and bank</i>	10	14,091,650	81,675,859
		211,924,319	279,723,464
LIABILITI SEMASA / CURRENT LIABILITIES			
Pemiutang pelbagai / <i>Sundry creditors</i>	11	38,005,886	51,791,487
Manfaat Pekerja Jangka Pendek / <i>Short-term Employee Benefits</i>	4(a)	3,582,539	2,916,622
		41,588,425	54,708,109
ASET SEMASA BERSIH / NET CURRENT ASSETS		170,335,894	225,015,355
		1,078,226,228	1,020,427,772
Dibiayai oleh: / Financed by:			
KUMPULANWANG DISATUKAN / CONSOLIDATED FUND			
Kumpulanwang Mengurus / <i>Operating Fund</i>	12	198,738,116	158,999,400
Kumpulanwang Kolej Kediaman / <i>Residential College Fund</i>	13	10,711,080	10,001,241
Kumpulanwang Pembangunan / <i>Development Fund</i>	14	465,930,639	427,438,764
Kumpulanwang Penyelidikan / <i>Research Fund</i>	15	105,727,035	120,484,007
Kumpulanwang Tabung Pusingan dan Amanah Lain / <i>Revolving and Other Trust Fund</i>	16	116,570,595	115,550,271
Kumpulanwang Penginapan dan Rekreasi / <i>Accommodation and Recreation Fund</i>	17	5,953,516	5,432,597
Kumpulanwang Pelaburan / <i>Investment Fund</i>	18	60,455,708	55,784,323
Kumpulanwang Kursus, Seminar, Konferensi dan Lawatan Sambil Belajar / <i>Course, Seminar, Conference and Study Visit Fund</i>	19	74,928,241	87,390,383
Kumpulanwang Pinjaman Kenderaan dan Komputer / <i>Vehicle and Computer Loan Fund</i>	20	25,000,000	25,000,000
		1,064,014,930	1,006,080,986
LIABILITI JANGKA PANJANG / LONG TERM LIABILITIES			
Manfaat Pekerja Jangka Panjang / <i>Long Term Employee Benefits</i>	4(c)	14,211,298	14,346,786
		14,211,298	14,346,786
		1,078,226,228	1,020,427,772

Nota-nota di muka surat 235 hingga 262 adalah merupakan sebahagian daripada penyata kewangan ini.
Notes at pages 235 to 262 are an integral part of this financial statements.

Penyata Pendapatan BAGI TAHUN BERAKHIR 31 DISEMBER 2005

Income Statement FOR THE YEAR ENDED 31 DECEMBER 2005

	NOTA/ NOTE	2005 RM	2004 RM
PENDAPATAN / INCOME			
Geran kerajaan / <i>Government grants</i>	22	416,998,228	329,457,606
Pelbagai yuran / <i>Miscellaneous fees</i>	23	80,499,699	92,303,296
Sumbangan luar / <i>External contributions</i>		14,069,852	13,316,019
Geran kerajaan tertunda direalisasi / <i>Realisation of deferred Government grants</i>	21	27,152,522	34,285,403
Faedah dan dividen / <i>Interest & dividend</i>		4,394,452	10,258,932
Untung/(Rugi) atas jualan saham / <i>Profit/(Loss) on sales of shares</i>	7	(972,708)	79,180
Jualan aset tetap / <i>Sales of fixed assets</i>		78,288	111,729
Hasil ladang / <i>Plantation revenue</i>		237,007	297,180
Pengurangan peruntukan rosotnilai saham / <i>Less provision for diminution of shares</i>	7.1	82,756	0
Pelbagai sewa / <i>Sundry rentals</i>		2,049,575	630,474
Pendapatan lain / <i>Other income</i>	24	46,386,110	26,817,177
		590,975,781	507,556,996
Tolak: PERBELANJAAN / Less: EXPENDITURE			
Emolumen / <i>Emolument</i>		210,894,392	196,618,230
Perbelanjaan manfaat pekerja / <i>Expenditure on employee benefit</i>	4(c)	530,430	17,263,409
Bekalan dan bahan-bahan / <i>Supplies and materials</i>		96,131,719	94,842,363
Penyelenggaraan dan pembaikan / <i>Maintenance and repairs</i>		30,017,289	34,580,555
Perkhidmatan iktisas dan hospitaliti / <i>Professional services and hospitality</i>		128,064,853	134,927,941
Susutnilai / <i>Depreciation</i>	5	91,009,126	87,415,697
Pelunasan tanah / <i>Amortisation of land</i>	5	74,401	74,401
Rosotnilai saham / <i>Diminution of shares</i>	7.1	0	51,997
Pelupusan / <i>Disposal</i>		1,030,339	5,816,003
Hutang ragu / <i>Doubtful debts</i>	8.3	2,535,109	21,410,212
		560,287,658	593,000,808
		30,688,123	(85,443,812)
Tolak: Perbelanjaan luar biasa / <i>Less: Extraordinary expenditure</i>	28	0	1,537,743
LEBIHAN /(KURANGAN) PENDAPATAN / SURPLUS / (DEFICIT) INCOME		30,688,123	(86,981,555)

Nota-nota di muka surat 235 hingga 262 adalah merupakan sebahagian daripada penyata kewangan ini.
Notes at pages 235 to 262 are an integral part of this financial statements.

Penyata Perubahan Ekuiti Statement of Changes in Equity

BAGI TAHUN BERAKHIR 31 DISEMBER 2005
FOR THE YEAR ENDED 31 DECEMBER 2005

	Kumpulanwang-Kumpulanwang / Funds										Jumlah / Total
	Mengurus / Operating	Kolej / Kediaman / Residential College	Pembangunan / Development	Penyelidikan / Research	Tabung Pusingan & Amanah Lain / Revolving & Other Trusts Fund	Penginapan dan Rekreasi / Accommo- dation & 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	RM	RM	RM	RM	RM	RM	RM	RM
2005											
Pada 1 Januari / As at 1 January	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	758,910,855	
Pelarasan tahun lalu / Prior year adjustment	1,519,211	(104,863)	(5,397,708)	(7,813)	(3,185)	(146)	0	(325)	0	(3,994,829)	
- Seperti yang dinyatakan semula / As restated	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	
Lebihan/(kurangan) pendapatan / Surplus/(deficit) income	39,216,082	814,702	(3,643,538)	(11,171,858)	830,702	518,704	1,780,149	2,343,180	0	30,688,123	
Pindahan (dari) / Transfer (from):	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	
Mengurus ke Pembangunan / Operating to Development	(275,671)	0	275,671	0	0	0	0	0	0	0	0
Mengurus ke Tabung Pusingan dan Amanah Lain / Operating to Revolving & Other Trust Fund	(92,000)	0	0	0	92,000	0	0	0	0	0	0
Mengurus ke Penyelidikan / Operating to Research Fund	(425,906)	0	0	425,906	0	0	0	0	0	0	0
Mengurus ke Kursus, Seminar, Konferensi dan Lawatan Sambil Belajar / Operating to Course, Seminar, Conference and Study Visit	(203,000)	0	0	0	0	0	0	203,000	0	0	0
Penyelidikan ke Tabung Pusingan dan Amanah Lain / Research to Revolving and Other Trust Fund	0	0	0	(95,171)	95,171	0	0	0	0	0	0
Tabung Pusingan dan Amanah Lain ke Penginapan dan Rekreasi / Revolving and Other Trust to Accommodation and Recreation	0	0	0	0	(2,361)	2361	0	0	0	0	0

Penyata Perubahan Ekuiti

BAGI TAHUN BERAKHIR 31 DISEMBER 2005 (Samb.)

Statement of Changes in Equity

FOR THE YEAR ENDED 31 DECEMBER 2005 (Cont'd.)

	Kumpulanwang-Kumpulanwang / Funds										Jumlah / Total
	Mengurus / Operating	Kolej Kediaman / Residential College	Pembangunan / Development	Penyelidikan / Research	Tabung Pusingan & Amanah Lain / Revolving & Other Trusts Fund	Penginapan dan Rekreasi / Accommodation & Recreation	Pelaburan / Investment	Kursus, Seminar, Konferensi dan Lawatan Sambil Belajar / Course, Seminar, Conference & Study Visit	Pinjaman Kenderaan dan Komputer / Vehicle & Computer Loan	RM	
0	0	0	0	7,997	0	0	(7,997)	0	0	0	0
0	0	15,000,000	0	0	0	0	(15,000,000)	0	0	0	0
0	0	2,000,000	0	0	0	(2,000,000)	0	0	0	0	0
0	0	0	(4,891,236)	0	0	4,891,236	0	0	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	465,930,639	105,727,035	116,570,595	5,953,516	60,455,708	74,928,241	25,000,000	1,064,014,930		

2005 (Samb.) / Cont'd.

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 & Study Visit to Development

Pelaburan ke Pembangunan / Investment to Development

Penyelidikan ke Pelaburan / Research to Development

Geran Kerajaan Tertunda/ Deferred Government Grants

Pada 1 Januari / As at 1 January

Perubahan dalam tahun semasa / Changes in current year

Penyata Perubahan Ekuiti

BAGI TAHUN BERAKHIR 31 DISEMBER 2005 (Samb.)

Statement of Changes in Equity FOR THE YEAR ENDED 31 DECEMBER 2005 (Cont'd.)

	Kumpulanwang-Kumpulanwang / Funds										Jumlah / Total RM	
	Mengurus / Operating RM	Kolej / Residential College RM	Pembangunan / Development RM	Penyelidikan / Research RM	Tabung Pusingan & Amanah / Revolving & Other Trusts Fund RM	Penginapan dan Rekreasi / Accommodation & Recreation RM	Pelaburan / Investment RM	Kursus, Seminar, Konferensi dan Lawatan dan Sambil Belajar / Course, Seminar, Conference & Study Visit RM	Pinjaman Kenderaan dan Komputer / Vehicle & Computer Loan RM			
2004												
Pada 1 Januari / As at 1 January 1	248,468,249	11,521,000	173,644,173	124,330,923	115,816,766	5,224,360	51,352,967	85,104,499	25,000,000		840,462,937	
Prior year adjustment	(1,830,383)	485,872	6,085,614	1,132,380	(617,567)	71,236	0	102,321	0		5,429,473	
- Seperti yang dinyatakan semula / As restated	246,637,866	12,006,872	179,729,787	125,463,303	115,199,199	5,295,596	51,352,967	85,206,820	25,000,000		845,892,410	
Lebihan/(kurangan) pendapatan / Surplus/(deficit) income	(83,980,516)	294,369	(6,723,411)	(10,053,807)	319,131	137,001	9,431,356	5,132,065	0		(85,443,812)	
Perbelanjaan luar biasa / Extraordinary Expenditure	0	0	(1,537,743)	0	0	0	0	0	0		(1,537,743)	
	162,657,350	12,301,241	171,468,633	115,409,496	115,518,330	5,432,597	60,784,323	90,338,885	25,000,000		758,910,855	
Pindahan (dari) / Transfer (from):												
Mengurus ke Pembangunan / Operating to Development	(3,500,000)	0	3,500,000	0	0	0	0	0	0		0	
Mengurus ke Tabung Pusingan dan Amanah Lain / Operating to Revolving & Other Trust Fund	(38,250)	0	0	0	38,250	0	0	0	0		0	
Mengurus ke Penyelidikan / Operating to Research	(94,500)	0	0	94,500	0	0	0	0	0		0	
Mengurus ke Kursus, Seminar, Konferensi dan Lawatan Sambil Belajar / Operating to Course, Seminar Conference & Study Visit	(25,200)	0	0	0	0	0	0	25,200	0		0	
Penyelidikan ke Kursus, Seminar, Konferensi dan Lawatan Sambil Belajar / Research to Course, Seminar Conference & Study Visit	0	0	0	(19,989)	0	0	0	19,989	0		0	

Penyata Aliran Tunai BAGI TAHUN BERAKHIR 31 DISEMBER 2005

Cash Flow Statement FOR THE YEAR ENDED 31 DECEMBER 2005

	NOTA/ NOTE	2005 RM	2004 RM
TUNAI DARI AKTIVITI OPERASI /			
CASH GENERATED FROM OPERATING ACTIVITIES			
Lebihan/(Kurangan) pendapatan / <i>Surplus/(Deficit) income</i>	m/s 4 /	30,688,123	(85,443,812)
Pelarasan ke atas / <i>Adjustment on:</i>	page 4		
Susutnilai / <i>Depreciation</i>	5	91,009,126	87,415,697
Pelunasan tanah / <i>Amortisation of land</i>	5	74,401	74,401
Peruntukan susutnilai / <i>Provision for depreciation</i>	5	3,880,849	(7,547,520)
(Untung)/Rugi atas jualan aset tetap / <i>(Profit)/Loss from sale of fixed assets</i>		(78,288)	(111,729)
Pelupusan / <i>Disposal</i>	5	1,030,339	5,816,003
Geran kerajaan tertunda direalisasi / <i>Realisation of deferred Government grants</i>	21	(27,152,522)	(34,285,403)
(Untung)/Rugi atas jualan saham / <i>(Profit)/Loss from sale of shares</i>		972,708	(79,180)
Peruntukan rosotnilai saham / <i>Provision for diminution of shares</i>		(82,755)	51,997
Pelarasan tahun lalu / <i>Prior year adjustment</i>	25	(3,994,829)	5,429,473
Geran kerajaan tertunda / <i>Deferred Government grants</i>		58,393,172	4,744,522
Lebihan/(Kurangan) pendapatan sebelum perubahan modal kerja / <i>Surplus/(deficit) income prior to changes in working capital</i>		154,740,324	(23,935,551)
(Penambahan)/Pengurangan penghutang / <i>(Increase) / Decrease in debtors</i>		(49,307,672)	33,376,393
Penambahan/(Pengurangan) pemiutang / <i>Increase / (Decrease) in creditors</i>		(13,785,601)	11,015,160
Manfaat Pekerja / <i>Employee benefits</i>		530,430	17,263,408
Tunai bersih dihasilkan dari aktiviti operasi /			
<i>Net cash generated from operating activities</i>		92,177,481	37,719,410
TUNAI DARI AKTIVITI PELABURAN /			
CASH FROM INVESTMENT ACTIVITIES			
Pembelian/pelarasan aset tetap / <i>Purchase/adjustment of fixed assets</i>	5	(109,476,124)	(229,323,197)
Pembinaan dalam kemajuan / <i>Work in progress</i>	6	(79,382,467)	15,496,756
Jualan aset tetap / <i>Sale of fixed assets</i>		78,288	111,729
Jualan saham / <i>Sale of shares</i>		23,752,555	7,550,708
Pembelian saham / <i>Purchase of shares</i>		(47,095,994)	(6,254,476)
Simpanan dengan pengurus portfolio / <i>Deposits with portfolio manager</i>	7	2,839,444	(9,330,799)
Tunai bersih dihasilkan sebelum perbelanjaan luar biasa / <i>Net cash derived before extraordinary expenditure</i>		(209,284,298)	(221,749,279)
Tolak: Perbelanjaan luar biasa / <i>Less: Extraordinary expenditure</i>		0	(1,537,743)
Tunai bersih dihasilkan dari aktiviti pelaburan / <i>Net cash generated from investment activities</i>		(209,284,298)	(223,287,022)

Penyata Aliran Tunai BAGI TAHUN BERAKHIR 31 DISEMBER 2005 (Samb.)

Cash Flow Statement FOR THE YEAR ENDED 31 DECEMBER 2005 (Cont'd)

	NOTA/ NOTES	2005 RM	2004 RM
Pengurangan bersih dalam jumlah tunai dan kesetaraan tunai / <i>Net decrease in cash and cash equivalents</i>		(117,106,817)	(185,567,612)
Jumlah tunai dan kesetaraan pada awal tahun / <i>Cash and cash equivalents at beginning of the year</i>		215,211,769	400,779,381
Jumlah tunai dan kesetaraan pada akhir tahun / <i>Cash and cash equivalents at the end of year</i>		98,104,952	215,211,769
Tunai dan kesetaraan tunai diwakili oleh: / <i>Cash and cash equivalents represented by:</i>			
Simpanan tetap / <i>Fixed deposits</i>	9	84,013,302	133,535,910
Wang di tangan dan di bank / <i>Cash in hand in bank</i>	10	14,091,650	81,675,859
		98,104,952	215,211,769

Sila lihat nota-nota yang mengiringi penyata kewangan ini.
Please refer to the notes accompanying this Financial Statements

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

1. KEGIATAN UTAMA / MAIN ACTIVITIES

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.

Universiti Putra Malaysia (UPM) is a university established under the University and University Colleges Act 1971. UPM operates from two locations with its main campus being at Serdang, Selangor and branch campus is at Bintulu, Sarawak.

The main activity of UPM is to improve the quality of education in its efforts to produce quality and competitive graduates, and emphasis on research and development activities specifically in the agriculture sector which involved in activities that have added high value and are commercial-oriented.

2. DASAR-DASAR PERAKAUNAN PENTING / SIGNIFICANT ACCOUNTING POLICIES

(a) Asas Perakaunan / Basis of Accounting

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.

The Financial Statement of UPM are prepared according to the historical cost convention and consistent with the accounting standards approved by the Malaysian Accounting Standards Board (MASB) with necessary modifications in compliance with the provisions which have been established by the University and University Colleges Act (Amendment) 1997.

(b) Pengiktirafan Pendapatan / Recognition of Income

(i) Geran Kerajaan bagi Belanja Mengurus diakaunkan berdasarkan asas tunai dan dinyatakan dalam Penyata pendapatan dan perbelanjaan.

Government Grants for Operating Expenditure has been accounted on cash basis and stated under the Income and Expenditure Statement.

(ii) Geran Kerajaan untuk projek-projek penyelidikan Intensification Of Research In Priority Areas (IRPA) diakaunkan di dalam Kumpulanwang Penyelidikan.

Government Grants for Intensification Of Research In Priority Areas (IRPA) projects has been accounted under the Research Fund.

(iii) Geran Kerajaan bagi Belanja Pembangunan yang diterima untuk membiayai kos projek modal pembangunan diakaunkan ke akaun geran kerajaan tertunda.

Government Grants received for Development Expenditure which was for financing capital development projects have been accounted under the Deferred Government Grants.

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

- (iv) Pendapatan yuran pengajian adalah berasaskan akruan dan diiktiraf apabila pelajar mendaftar dalam tahun berkenaan.
Tuition Fees Income is based on an accrual basis and recognised in the year a student registers.
- (v) Faedah dan keuntungan dari pinjaman kenderaan dan komputer diakaunkan mengikut konsep akruan.
Interest and profit from vehicle and computer loans have been recognized according to the accrual concept.
- (vi) Pendapatan untuk sewa diakrukan mengikut perjanjian yang telah dipersetujui di antara UPM dan penyewa.
Rental income has been accrued according to the contract between UPM and tenant.
- (vii) Pendapatan faedah ke atas simpanan tetap dari institusi kewangan berlesen diakaunkan mengikut konsep akruan kecuali keuntungan atas simpanan tetap melalui skim Mudharabah diiktiraf berdasarkan asas tunai mengikut tarikh matang.
Interest income on fixed deposits from licensed financial institutions has been accounted according to the accrual concept except for profits from fixed deposits under the Mudharabah scheme which has been recognized according to the maturity date.
- (viii) Sumbangan diiktiraf berdasarkan asas tunai.
Contributions have been recognised on cash basis.

(c) Liabiliti Cukai Pendapatan / Income Tax Liability

UPM adalah dikecualikan dari cukai pendapatan atas pendapatannya di bawah perenggan 13 Jadual 6, Akta Cukai Pendapatan 1967 kecuali bagi pendapatan dividen.

UPM is exempted from income tax on its income under para 13, 6th Schedule, Income Tax Act 1967 except on its dividend income.

(d) Peruntukan Hutang Ragu / Provision For Doubtful Debt

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:-

Provision for doubtful debts is made based on a year-end balance of debts that have not been recovered. UPM's policy on accounting for provision for doubtful debts is as follows:-

- (i) Hutang yang berusia diantara 6 – 12 bulan, peruntukan hutang ragu dibuat pada kadar 50%, dan
For debts aged between 6-12 months, provision for doubtful debt is set at the rate of 50%, and
- (ii) Hutang yang berusia melebihi 12 bulan, peruntukan hutang ragu dibuat pada kadar 100%
For debts aged more than 12 months, provision for doubtful debt is set at the rate of 100%.

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

(e) Susutnilai Aset Tetap / *Fixed Asset Depreciation*

Aset Tetap 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.

Fixed assets are stated at cost less depreciation and are defined as tangible assets that have an economic usage of more than 12 months and are valued at more than RM3,000-00 each with the exception of purchase of curtain, carpet, blinds and screens, crockery, books, livestock and plants which are classified as non-fixed asset expenses without taking into consideration their costs.

Tanah dipermodalkan mulai tahun 1993 dan tanah milik bebas tidak dilunaskan manakala tanah pajakan dilunaskan samarata mengikut tempoh pajakan.

Land has been capitalised since 1993 and freehold land is not amortised whereas leasehold land is amortised equally over the lease period.

Mulai tahun kewangan 2001, semua bangunan yang dibina sebelum tahun 1984 telah dipermodalkan.

As from the financial year of 2001, all buildings built before 1984 have been capitalised.

Susutnilai dikira berasaskan kaedah garis lurus ke atas anggaran hayat kegunaan aset berkenaan. Kadar susutnilai tahunan yang digunakan adalah seperti berikut:-

Depreciation is calculated based on a straight line basis over the estimated useful lives of the assets concerned.

Annual depreciation rate used are as follows:-

Bangunan dan pembaikan bangunan / <i>Buildings and Building Renovation</i>	2%
Infrastruktur dan kemudahan / <i>Infrastructure and facilities</i>	5%
Kenderaan dan jentera / <i>Vehicles and machinery</i>	20%
Perabot dan kelengkapan / <i>Furniture and fittings</i>	20%
Mesin dan komputer / <i>Machines and computers</i>	20%

(f) Pembinaan Dalam Kemajuan / *Work in Progress*

Pembinaan dalam kemajuan adalah kerja-kerja yang masih belum disempurnakan pada akhir tahun kewangan. Jumlah yang diambilkira adalah semua perbelanjaan yang terlibat dengan projek berkaitan. Kos pembinaan akan dipindahkan ke aset tetap yang berkenaan apabila Sijil Perakuan Siap Kerja dikeluarkan.

Work In Progress are works that have not been completed at the end of financial year. Amount considered are all expenditures related to the concerned projects. Construction costs will be transferred to the relevant fixed assets when the Certificate of Practical Completion of Work is issued.

(g) Pelaburan / *Investment*

Pelaburan dinyatakan pada kos ditolak rosotan nilai pelaburan berkenaan.

Investments are stated at cost less provision for diminution of investments concerned.

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

(h) Tunai dan Kesetaraan Tunai / Cash and Cash Equivalents

Tunai dan kesetaraan tunai terdiri daripada tunai di tangan, baki di bank, simpanan tetap dan pasaran wang di dalam institusi kewangan.

Cash and cash equivalents consists of cash in hand, bank balances, fixed deposits and money markets in financial institutions.

(i) Geran Kerajaan Bagi Projek Pembangunan / Government Grants for Development Projects

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.

As from year 2001, UPM has changed its policy concerning government grants for development projects in line with the requirement of MASB 31 – Accounting for Government Grants and Disclosure of Government Assistance. Government grants for development projects are recognised as deferred grants and will be settled according to the depreciation values of completed projects and assets purchased as well as non-capitalised operating expenditures.

(j) Pertukaran Matawang Asing / Foreign Currency Conversion

Urusniaga dalam matawang asing sepanjang tahun ditukar kepada Ringgit Malaysia pada kadar pertukaran yang berkuatkuasa pada tarikh urusniaga tersebut.

Transactions in foreign currencies throughout the year have been converted into Ringgit Malaysia at the rate of exchange ruling on the transaction dates.

Keuntungan atau kerugian pertukaran yang timbul daripada penjelasan urusniaga matawang asing diiktiraf sebagai item biasa di dalam penyata pendapatan.

All losses and gains arising from settlement of the foreign currency are recognized as ordinary items in the Statement of Income.

Item-item di lembaran imbangan tiada melibatkan transaksi yang mempunyai nilai dalam matawang asing.

Items in the Balance Sheet do not involve any transaction of value in foreign currencies.

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

3. POLISI PENGURUSAN RISIKO KEWANGAN/ **FINANCIAL RISK MANAGEMENT POLICY**

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.

The financial risk management policies of UPM is to ensure UPM has adequate financial resources to carry out its operations smoothly. UPM finances its operations from government grants, external contributions and internal funds and as such it is not exposed to financial risks.

Polisi UPM bagi aktiviti yang berisiko kewangan adalah seperti berikut:-

The UPM policy with regard to activities involving financial risks are as follows:-

(a) **Risiko Pelaburan / Investment Risk**

UPM melabur melalui pengurus dana yang dilantik dan pengurusannya 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.

UPM invests through appointed fund managers and the management of the funds has to comply with the mandate established by the Standing Finance Committee. The mandate emphasises that the principal investment should not be jeopardised and should generate rate of returns higher than interest rates offered by the financial institutions.

(b) **Risiko Kecairan dan Aliran Tunai / Liquidity and Cash Flow Risks**

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.

UPM manages cash flows to ensure all payment requirements are followed. Among the liquidity management rules practised is to ensure that cash and fixed deposits levels can be converted to meet the cash flow liquidity requirements from time to time.

(c) **Risiko Kredit / Credit Risks**

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.

Most of the credit risks of UPM arise from accounts which have not been received. These accounts are monitored from time to time according to management procedures and action will be taken to recover arrears of debt.

(d) **Risiko Pertukaran Matawang Asing/ Foreign Currency Transaction Risks**

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.

UPM is exposed to foreign currency transaction risks involving payments and receipts which are mostly denominated in US Dollar, Euro and British Pound. UPM does not monitor foreign currency risks. Gains and losses arising from foreign currency transactions have been accounted in the Statement of Income.

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

4. MANFAAT PEKERJA / EMPLOYEE BENEFITS

(a) Manfaat Pekerja Jangka Pendek/ *Short-term Employee Benefits*

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.

Salaries, wages, bonus and social security contributions are considered as current year expenditures in the relevant year in which the employees have provided their services. UPM had also accounted for payment for rest days for permanent employees who will retire in the following year and also compensation for contract employees whose services will expire in the following year as short-term employee liability.

(b) Pelan Caruman Tetap / *Permanent Contribution Plan*

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.

UPM makes contributions to EPF for employees who have option for the EPF scheme or to Government Pension Trust Fund for staff who have been emplaced under the pension scheme and those contributions have been taken into account as expenditures in the Statement of Income when the expenditures were incurred.

(c) Manfaat Pekerja Jangka Panjang/ *Long Term Employee Benefit*

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.

As from 31 December 2004, UPM is following the requirements of MASB 29 – Employee Benefits in which employee benefit payments are recognized as accruals in the Statement of Income in the current year as Employee Benefits expenditure and in the Balance Sheet as liability and is termed as Long Term Employee Benefits.

Jenis manfaat pekerja jangka panjang yang diiktiraf secara akruan adalah bagi bayaran gantian cuti rehat untuk pekerja yang telah mencapai umur 48 tahun dengan andaian seseorang pekerja akan mengumpulkan cuti tahunannya sebanyak 15 hari setahun sehingga mencapai maksima 120 hari semasa ianya bersara. Kadar gaji semasa telah digunakan untuk mengira amaun liabiliti tersebut.

The type of long term employee benefits recognized as accruals is for payment in lieu of rest day holidays for employees who have reached 48 years of age on the assumption that an employee may accumulate 15 days of his annual leave per year until reaching a maximum of 120 days when he retired. Current rate of wage is used to calculate the said total liability.

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

5. ASET TETAP / FIXED ASSETS

2005	Kos / Cost				Susutnilai / Depreciation			Nilai Buku Bersih / Net Book Value				
	1 Januari / 1 January RM	Pelarasan / Adjustment RM	Tambahan / Addition RM	Pelupusan / Disposal RM	31.12.2005 RM	1 Januari / 1 January RM	Pelarasan / Adjustment RM	Tambahan / Addition RM	Pelupusan / Disposal RM	31.12.2005 RM	2005 RM	2004 RM
(a) Kumpulanwang Mengurus / Operating Fund												
Tanah pajakan / Leasehold land	6,802,736	0	0	0	6,802,736	2,253,408	0	74,401	0	2,327,809	4,474,927	4,549,328
Tanah milik kekal / Freehold land	8,962,151	0	0	0	8,962,151	0	0	0	0	0	8,962,151	8,962,151
Bangunan / Building	48,026,410	0	7,065,465	0	55,091,875	4,395,285	1,076	1,101,838	0	5,498,199	49,593,676	43,631,125
Infrastruktur & kemudahan / Infrastructure and facilities	40,712,573	0	3,543,269	0	44,255,842	5,043,863	1,961	2,212,943	0	7,258,767	36,997,075	35,668,710
Kenderaan dan jentera / Vehicles	19,766,942	0	2,289,930	(565,299)	21,491,573	13,398,879	(161,978)	3,269,133	(530,391)	15,975,643	5,515,930	6,368,063
Perabot dan kelengkapan / Furniture and fittings	11,899,642	0	2,160,723	(145,021)	13,915,344	7,911,505	(241,625)	2,211,045	(144,026)	9,736,899	4,178,445	3,988,137
Mesin dan komputer / Machines and computer	229,966,708	(44,397)	23,321,963	(3,851,728)	249,392,546	149,050,694	(1,128,045)	38,194,171	(3,794,725)	182,322,095	67,070,451	80,916,014
	366,137,162	(44,397)	38,381,350	(4,562,048)	399,912,067	182,053,634	(1,528,611)	47,063,531	(4,469,142)	223,119,412	176,792,655	184,083,528

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

5. ASET TETAP (SAMB.) / FIXED ASSETS (CONT'D.)

2005	Kos / Cost				Susutnilai/ Depreciation				Nilai Buku Bersih Net Book Value			
	1 Januari / 1 January RM	Pelarasan / Adjustment RM	Tambahan / Addition RM	Pelupusan / Disposal RM	31.12.2005 RM	1 Januari / 1 January RM	Pelarasan / Adjustment RM	Tambahan / Addition RM	Pelupusan / Disposal RM	31.12.2005 RM	2005 RM	2004 RM
(b) Kumpulanwang Pembangunan / Development Fund												
Bangunan / Building	338,944,412	(235,118)	40,995,744	(19,940)	379,685,098	30,993,260	5,387,512	8,376,314	(3,591)	44,753,495	334,931,603	307,951,152
Infrastruktur & kemudahan / Infrastructure and facilities	108,988,211	(84,725)	14,788,151	0	123,691,637	17,540,248	5,206	6,184,582	0	23,730,036	99,961,601	91,447,963
Kenderaan dan jentera / Vehicles and machinery	2,040,057	0	0	0	2,040,057	1,783,811	0	115,513	0	1,899,324	140,733	256,246
Perabot dan kelengkapan / Furniture and fittings	1,517,918	0	61,772	(14,000)	1,565,690	1,334,944	52	102,051	(13,999)	1,423,048	142,642	182,974
Mesin dan komputer / Machines and computers	136,454,723	0	1,558,694	(2,608,534)	135,404,883	107,835,166	4,938	15,762,567	(2,595,993)	121,006,678	14,398,205	28,619,557
	587,945,321	(319,843)	57,404,361	(2,642,474)	642,387,365	159,487,429	5,397,708	30,541,027	(2,613,563)	192,812,581	449,574,784	428,457,892

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

5. ASET TETAP (SAMB.) / FIXED ASSETS (CONT'D.)

2005	Kos / Cost				Susutnilai / Depreciation			Nilai Buku Bersih / Net Book Value				
	1 Januari / 1 January RM	Pelarasan / Adjustment RM	Tambahan / Addition RM	Pelupusan / Disposal RM	31.12.2005 RM	1 Januari / 1 January RM	Pelarasan / Adjustment RM	Tambahan / Addition RM	Pelupusan / Disposal RM	31.12.2005 RM	2005 RM	2004 RM
(c) Kumpulanwang Penyelidikan / Research Fund												
Bangunan / Building	626,389	0	30,805	0	657,194	205,619	0	13,144	0	218,763	438,431	420,770
Infrastruktur & kemudahan / Infrastructure and facilities	1,619,995	0	0	0	1,619,995	567,442	0	81,000	0	648,442	971,553	1,052,553
Kenderaan dan jentera / Vehicles and machinery	325,527	0	341,885	0	667,412	236,891	0	112,754	0	349,645	317,767	88,636
Perabot & kelengkapan / Furniture and fittings	529,064	(338)	83,275	0	612,001	414,287	(12)	53,453	0	467,728	144,273	114,777
Mesin dan komputer / Machines and Computers	66,190,272	1,342	8,905,519	(747,286)	74,349,847	47,488,722	7,825	8,015,732	(738,374)	54,773,905	19,575,942	18,701,550
	69,291,247	1,004	9,361,484	(747,286)	77,906,449	48,912,961	7,813	8,276,083	(738,374)	56,458,483	21,447,966	20,378,286

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

5. ASET TETAP (SAMB.) / FIXED ASSETS (CONT'D.)

2005	Kos / Cost				Susutnilai/ Depreciation			Nilai Buku Bersih Net Book Value				
	1 Januari / 1 January RM	Pelarasan / Adjustment RM	Tambahan / Addition RM	Pelupusan / Disposal RM	31.12.2005 RM	1 Januari / 1 January RM	Pelarasan / Adjustment RM	Tambahan / Addition RM	Pelupusan / Disposal RM	31.12.2005 RM	2005 RM	2004 RM
(d) Kumpulanwang Amanah Lain* / Other Trust Fund												
Bangunan / Building	5,578,005	0	329,595	(987,114)	4,920,486	459,248	81	118,152	(118,562)	458,919	4,461,567	5,118,757
Infrastruktur & kemudahan / Infrastructure and facilities	4,214,008	0	6,950	0	4,220,958	1,110,485	7	211,048	0	1,321,540	2,899,418	3,103,523
Kenderaan dan jentera / Vehicles and machinery	6,641,691	0	196,273	0	6,837,964	3,565,665	46,155	1,116,567	0	4,728,387	2,109,577	3,076,026
Perabot & kelengkapan / Furniture and fittings	1,320,947	0	174,825	0	1,495,772	723,699	242	226,573	0	950,514	545,258	597,248
Mesin dan komputer / Machines and computers	16,569,116	0	3,167,810	(189,438)	19,547,488	9,084,065	(42,829)	3,097,164	(158,365)	11,980,035	7,567,453	7,485,051
	34,323,767	0	3,875,453	(1,176,553)	37,022,668	14,943,162	3,656	4,769,504	(276,927)	19,439,395	17,583,273	19,380,605

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

5. ASET TETAP (SAMB.) / FIXED ASSETS (CONT'D.)

2005	Kos / Cost						Susutnilai/ Depreciation		Nilai Buku Bersih Net Book Value			
	1 Januari / 1 January RM	Pelarasan / Adjustment RM	Tambahan / Addition RM	Pelupusan / Disposal RM	31.12.2005 RM	1 Januari / 1 January RM	Pelarasan / Adjustment RM	Tambahan / Addition RM	31.12.2005 RM	2005 RM	2004 RM	
(e) Kumpulanwang Kolej Kediaman / Residential College Fund												
Bangunan / Building	1,671,817	0	171,095	0	1,842,912	94,186	12	36,858	0	131,056	1,711,856	1,577,631
Infrastruktur & kemudahan / Infrastructure and facilities	677,210	0	216,126	0	893,336	135,529	51	44,659	0	180,239	713,097	541,681
Kenderaan dan jentera / Vehicles and machinery	98,435	0	0	0	98,435	93,656	2	1,740	0	95,398	3,037	4,779
Perabot & kelengkapan / Furniture and fittings	577,821	0	40,660	0	618,481	475,178	35	54,905	0	530,118	88,363	102,643
Mesin dan komputer / Machines and computers	2,107,821	0	388,831	(24,950)	2,471,702	1,523,496	183	295,220	(24,944)	1,793,955	677,747	584,325
	5,133,104	0	816,712	(24,950)	5,924,866	2,322,045	283	433,382	(24,944)	2,730,766	3,194,100	2,811,059
Jumlah / Total	1,062,830,601	(363,236)	109,839,360	(9,153,310)	1,163,153,415	407,719,231	3,880,849	91,083,527	(8,122,970)	494,560,637	668,592,778	655,111,370

Termasuk di dalam tambahan aset tetap adalah sejumlah RM64,483,274 (2004 : RM148,596,883) pindahan dari pembinaan dalam kemajuan yang telah siap dalam tahun semasa.
Included in fixed assets addition is the sum of RM64,483,274 (2004 : RM148,596,883) which has been transferred from works in progress completed in current year

* 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 Sambil Belajar.

* Total assets in Other Trust Fund is the total assets which has been consolidated from Revolving & Other Trust Fund, Accommodation and Recreation Fund and Course, Seminar, Conference and Study Visit Fund, 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 RM	Tambahan / Addition RM	Pindahan ke penyelenggaraan / Transfer to maintenance RM	Pindahan ke Aset Tetap / Transfer to fixed assets RM	Pindahan ke KUSTEM / Transfer to KUSTEM RM	Pada akhir tahun / Year End RM
2005						
Bangunan dan pembaikan / Buildings & repairs	105,518,860	133,851,116	0	47,667,544	0	191,702,432
Kemudahan dan pembaikan / Facilities and repairs	13,998,666	9,567,629	0	16,707,329	0	6,858,966
Harta modal yang lain / Other capital properties	0	460,541	0	108,401	0	352,140
Penyelenggaraan / Maintenance	0	928,431	928,431	0	0	0
Lain-Lain / Others	13,545	0	13,545	0	0	0
	119,531,071	144,807,717	941,976	64,483,274	0	198,913,538
2004						
Bangunan dan pembaikan / Buildings & repairs	92,275,358	108,879,340	0	90,380,360	5,255,478	105,518,860
Kemudahan dan pembaikan / Facilities and repairs	34,704,574	31,731,216	0	52,437,124	0	13,998,666
Harta modal yang lain / Other capital properties	5,175,557	603,842	0	5,779,399	0	0
Penyelenggaraan / Maintenance	2,801,721	1,022,707	3,824,428	0	0	0
Lain-Lain / Others	70,617	31,453	88,525	0	0	13,545
	135,027,827	142,268,558	3,912,953	148,596,883	5,255,478	119,531,071

Pada tahun 2005, pembinaan dalam kemajuan sebanyak RM64,483,274 (2004 : RM148,596,883) telah dipindahkan ke aset tetap, RM941,976 (2004: RM3,912,953) dipindahkan ke penyelenggaraan.
In the year 2005, work in progress amounting RM64,483,274 (2004: RM148,596,883) has been transferred to fixed assets and RM941,976 (2004: RM3,912,953) has been transferred to maintenance.

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

7. PELABURAN / INVESTMENT

	2005 RM	2004 RM
(a) Kumpulanwang Pelaburan / Investment Fund		
Pelaburan tersiarharga – di Malaysia, pada kos / <i>Quoted investment – in Malaysia, at cost</i>	9,146,499	10,114,909
Tolak: / Less:		
Peruntukan rosotnilai pelaburan / <i>Provision for diminution of investments</i>	(1,316,447)	(1,512,517)
Nilai pasaran pelaburan tersiarharga – di Malaysia / <i>Market value of quoted investment – in Malaysia</i>	7,830,052	8,602,392
Campur: / Add:		
Pelaburan tidak tersiarharga – di Malaysia / <i>Unquoted investment – in Malaysia</i>	500,000	500,000
Simpanan dengan Pengurus Portfolio / <i>Deposits with portfolio manager</i>	1,837,038	1,571,094
	10,167,090	10,673,486
(b) Kumpulanwang Tabung Pusingan dan Amanah Lain / Revolving and Other Trust Fund		
Pelaburan tersiarharga – di Malaysia, pada kos / <i>Quoted investment – in Malaysia, at cost</i>	24,078,048	738,908
Tolak: / Less:		
Peruntukan rosotnilai pelaburan / <i>Provision for diminution of investments</i>	(113,314)	0
	23,964,734	738,908
Campur: / Add:		
Simpanan dengan Pengurus Portfolio / <i>Deposits for diminution of investments</i>	6,252,194	9,357,582
	30,216,928	10,096,490
Jumlah Pelaburan / Total Investment	40,384,018	20,769,976

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 RM2 juta dari RM38.38 juta kepada RM40.38 juta adalah setelah mengambilkira jumlah kerugian atas jualan saham berjumlah RM972,708 dan pengurangan rosot nilai saham berjumlah RM82,756.

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 RM2 million from RM38.38 million to RM40.38 million is after taking into consideration total losses from the sale of RM972,708 million and the reduction of diminution of shares amounting RM82,756.

7.1 PERUNTUKAN ROSOTNILAI PELABURAN / PROVISION FOR DIMINUTION OF INVESTMENT

	2005 RM	2004 RM
Baki awal tahun / <i>Balance at beginning of year</i>	1,512,517	1,460,520
Campur/(Tolak): / Add/(Less):		
Tambahan/(Kurangan) dalam tahun / <i>Increase/(Decrease) in current year</i>	(82,756)	51,997
	1,429,761	1,512,517

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

8. PENGHUTANG PELBAGAI / SUNDRY DEBTORS

Perkara / Item	Kumpulanwang-Kumpulanwang / Funds											Jumlah 2004	
	Mengurus / Operating	Kolej Kediaman / Residential College	Pembangunan / Development	Penyelidikan / Research	Tabung Pusingan dan Amanah Lain / Revolving And Other Trust Fund	Penginapan dan Rekreasi / Accom. and Recreation	Pelaburan / Investment	Kursus, Seminar dan Konferensi / Course, Seminar, Conference & Study Visit	Sambil Belajar / Course, Seminar, Conference & Study Visit	Pinjaman Kenderaan dan Komputer / Vehicles & Computers	Jumlah 2005	RM	RM
Siberhutang / Debtors	16,952,984	0	0	0	0	0	0	0	11,205,809	28,158,793	28,549,346	RM	RM
Yuran Tertunggak / Accrued Fees	40,492,781	0	0	34,500	8,965,850	0	0	21,040,454	0	70,533,585	83,829,213	RM	RM
Faedah Simpanan Tetap Terakru / Accrued fixed deposit interest	249,074	0	0	0	0	0	0	0	0	272,664	1,055,892	RM	RM
Geran Kerajaan Terakru / Accrued Government grants	0	0	50,004,172	1,180,000	0	0	0	0	0	51,184,172	0	RM	RM
Bantuan Pendahuluan Projek (Pembangunan) / Project Advance Assistance (Development)	0	0	2,071,265	0	0	0	0	0	0	2,071,265	8,227,628	RM	RM
Pengurus Portfolio / Portfolio Manager	0	0	0	0	325,041	0	0	0	0	378,841	47,534	RM	RM
Pendahuluan Pegawai dan Pelajar UPM / Advances to UPM officers & students	361,845	14,974	0	240,290	300,925	24,568	0	18,913	0	961,515	1,647,684	RM	RM
Cagaran / Deposits	420,350	320	20,000	0	19,050	0	0	0	0	459,720	630,925	RM	RM
Jumlah / Total	58,477,034	15,294	52,095,437	1,454,790	9,610,866	24,568	77,390	21,059,367	11,205,809	154,020,555	123,988,222	RM	RM
Tolak: / Less:													
Peruntukan Hutang Ragu / Provision for doubtful debts	18,544,270	0	0	24,750	5,399,356	0	0	16,232,812	0	40,201,188	59,476,527	RM	RM
	39,932,764	15,294	52,095,437	1,430,040	4,211,510	24,568	77,390	4,826,555	11,205,809	113,819,367	64,511,695	RM	RM

Angka-angka penghutang pelbagai adalah nilai bersih setelah diselaraskan dalam proses penyatuan item-item kontra antara akaun-akaun penghutang dan pemiutang. 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. PENGHUTANG PELBAGAI (SAMB.) / SUNDRY DEBTORS

8.1 Hutang Pecah Kontrak/ *Breach of Contracts*

Hutang pecah kontrak yang dianggarkan tetapi tidak diakaunkan sebagai sebahagian daripada jumlah hutang:/
Breach of Contract debts which has been estimated but yet not to be accounted as part of the total debt:

	2005 RM	2004 RM
Staf UPM yang melanggar perjanjian cuti belajar / <i>UPM staff who have breached study leave contracts</i>	2,254,708	2,296,247
Pelajar Pasca Siswazah yang tidak menamatkan pengajian / <i>Post-graduate students who have not completed studies</i>	687,811	656,205
	2,942,519	2,952,452

8.2 Multimedia Technology Enhancement Operation Sdn Bhd (Meteor) /

Multimedia Technology Enhancement Operation Sdn Bhd (Meteor)

Jumlah berikut telah diakaunkan sebagai yuran tertunggak: /
The following amount has been accounted as accrued fees:

	2005 RM	2004 RM
Kumpulanwang Kursus, Seminar, Konferensi dan Lawatan Sambil Belajar / <i>Course, Seminar, Conference and Study Visit Fund</i>	6,417,991	6,417,991

8.3 Peruntukan Hutang Ragu / *Provision for Doubtful Debts*

	2005 RM	2004 RM
Tambahan dalam tahun / <i>Addition in current year</i>	2,535,109	21,410,212
Pengurangan dalam tahun / <i>Decrease in current year</i>	(21,810,448)	(1,433,176)
Peruntukan dalam tahun / <i>Provision in current year</i>	(19,275,339)	19,977,036
Baki awal tahun / <i>Balance at beginning of the year</i>	59,476,527	39,499,491
Jumlah tahun ini / <i>Total for this year</i>	40,201,188	59,476,527

Tambahan atau kurangan peruntukan hutang ragu dikira pada akhir tahun kewangan yang berkenaan. /
The increase or decrease in the provision for doubtful debts is calculated at the end of the relevant financial year

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

9. SIMPANAN TETAP / FIXED DEPOSITS

	2005 RM	2004 RM
Simpanan dengan institusi kewangan berlesen: / <i>Deposit with licensed financial institution</i>		
Bank / <i>Bank</i>	78,013,302	114,535,910
Syarikat Kewangan / <i>Financial Institution</i>	6,000,000	19,000,000
	84,013,302	133,535,910

10. WANG DI TANGAN, DI BANK DAN DALAM PERJALANAN / CASH IN HAND AND BANK AND IN TRANSIT

	2005 RM	2004 RM
Wang di tangan: / <i>Cash in hand:</i>		
Kampus Serdang / <i>Serdang Campus</i>	77,786	63,356
Kampus Bintulu / <i>Bintulu Campus</i>	8,418	5,331
	86,204	68,687
Wang di bank: / <i>Cash in bank</i>		
Kampus Serdang / <i>Serdang Campus</i>	13,182,592	80,958,443
Kampus Bintulu / <i>Bintulu Campus</i>	822,854	648,729
	14,005,446	81,607,172
Jumlah wang di tangan dan di bank / <i>Total cash in hand and bank</i>	14,091,650	81,675,859

11. PEMIUTANG PELBAGAI / SUNDRY CREDITORS

	2005 RM	2004 RM
Pemiutang Pembekal / Staf / <i>Suppliers / Staf creditors</i>	5,547,872	4,141,563
Akaun Penaja / Pelajar / <i>Sponsors / Students</i>	20,529,097	19,868,863
Cagaran Pelbagai / <i>Miscellaneous deposits</i>	4,862,887	5,352,394
Canary Inforport Sdn Bhd / <i>Canary Inforport Sdn Bhd</i>	0	17,000,000
Lain-lain / <i>Others</i>	7,066,030	5,428,667
	38,005,886	51,791,487

Angka-angka pelbagai pemiutang adalah nilai bersih setelah diselaraskan dalam proses penyatuan item-item kontra antara akaun-akaun penghutang dan pemiutang.

The figures 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 MENGURUS / OPERATING FUND

	2005 RM	2004 RM
PENDAPATAN / INCOME		
Geran kerajaan / <i>Government grants</i>	394,528,570	287,888,227
Pelbagai yuran / <i>Miscellaneous fees</i>	37,328,819	41,326,797
Pelbagai sewa / <i>Sundry rentals</i>	1,163,893	240,463
Jualan aset tetap / <i>Sale of fixed assets</i>	78,288	111,729
Hasil ladang / <i>Plantation revenue</i>	237,007	297,180
Pendapatan lain / <i>Other income</i>	16,926,768	4,362,146
	450,263,345	334,226,542
Tolak: PERBELANJAAN / Less: EXPENDITURE		
Emolumen / <i>Emolument</i>	210,894,392	196,618,231
Perbelanjaan manfaat pekerja / <i>Employee benefit expenditure</i>	530,430	17,263,408
Bekalan dan bahan-bahan / <i>Supplies and materials</i>	68,100,036	65,140,078
Penyelenggaraan dan pembaikan / <i>Maintenance and repairs</i>	23,309,726	23,363,802
Perkhidmatan iktisas dan perbelanjaan lain / <i>Professional services and other expenditure</i>	60,034,482	51,759,523
Susutnilai / <i>Depreciation</i>	46,989,130	44,531,454
Pelunasan tanah / <i>Amortisation of land</i>	74,401	74,401
Pelupusan / <i>Disposal</i>	92,906	556,867
Hutang ragu / <i>Doubtful debts</i>	1,021,760	18,899,294
	411,047,263	418,207,058
	39,216,082	(83,980,516)
LEBIHAN PENDAPATAN / SURPLUS INCOME		
BAKI KUMPULANWANG DIBAWA KE HADAPAN / FUND BALANCE BROUGHT FORWARD		
- Seperti yang dinyatakan terdahulu / <i>As previously stated</i>	158,999,400	248,468,249
- Pelarasan tahun lalu / <i>Prior year adjustment</i>	1,519,211	(1,830,383)
- Seperti yang dinyatakan semula / <i>As restated</i>	160,518,611	246,637,866
Pindahan (ke): / <i>Transfer (to):</i>		
Kumpulanwang Pembangunan / <i>Development Fund</i>	(275,671)	(3,500,000)
Kumpulanwang Penyelidikan / <i>Research Fund</i>	(425,906)	(94,500)
Kumpulanwang Tabung Pusingan dan Amanah Lain / <i>Revolving and Other Trust Fund</i>	(92,000)	(38,250)
Kumpulanwang Kursus, Seminar, Konferensi dan Lawatan Sambil Belajar / <i>Course, Seminar, Conference and Study Visit Fund</i>	(203,000)	(25,200)
BAKI KUMPULANWANG DIHANTAR KE HADAPAN / FUND BALANCE CARRIED FORWARD		
	198,738,116	158,999,400

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

13. KUMPULANWANG KOLEJ KEDIAMAN / RESIDENTIAL COLLEGE FUND

	2005 RM	2004 RM
PENDAPATAN / INCOME		
Yuran Kolej Kediaman / <i>Residential College fees</i>	9,710,182	9,260,789
Pelbagai sewa / <i>Sundry rentals</i>	38,650	34,500
Pendapatan lain / <i>Other income</i>	1,052,336	493,783
	10,801,168	9,789,072
Tolak: PERBELANJAAN / Less: EXPENDITURE		
Bekalan dan bahan-bahan / <i>Supplies and materials</i>	4,054,160	3,824,114
Penyelenggaraan dan pembaikan / <i>Maintenance and repairs</i>	2,331,893	2,347,295
Perkhidmatan iktisas dan perbelanjaan lain / <i>Professional services and other expenditures</i>	3,167,027	2,642,469
Susutnilai / <i>Depreciation</i>	433,380	429,398
Pelupusan / <i>Disposal</i>	6	251,427
	9,986,466	9,494,703
	814,702	294,369
LEBIHAN PENDAPATAN / SURPLUS INCOME		
BAKI KUMPULANWANG DIBAWA KE HADAPAN / FUND BALANCE BROUGHT FORWARD		
- Seperti yang dinyatakan terdahulu / <i>As previously stated</i>	10,001,241	11,521,000
- Pelarasan tahun lalu / <i>Prior year adjustment</i>	(104,863)	485,872
- Seperti yang dinyatakan semula / <i>As restated</i>	9,896,378	12,006,872
Pindahan (ke) : / <i>Transfer (to):</i>		
Kumpulanwang Pembangunan / <i>Development Fund</i>	0	(2,300,000)
BAKI KUMPULANWANG DIHANTAR KE HADAPAN / FUND BALANCE CARRIED FORWARD	10,711,080	10,001,241

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

14. KUMPULANWANG PEMBANGUNAN / DEVELOPMENT FUND

	2005 RM	2004 RM
PENDAPATAN / INCOME		
Geran kerajaan tertunda direalisasi / <i>Realisation of deferred Government grants</i>	26,906,722	34,285,403
Pendapatan lain / <i>Other income</i>	876,903	2,080,824
	27,783,625	36,366,227
Tolak: PERBELANJAAN / Less: EXPENDITURE		
Bekalan dan bahan-bahan / <i>Supplies and materials</i>	364,673	1,486,797
Penyelenggaraan dan pembaikan / <i>Maintenance and repairs</i>	457,625	5,905,085
Perkhidmatan iktisas dan perbelanjaan lain / <i>Professional services and other expenditures</i>	34,945	133,490
Susutnilai / <i>Depreciation</i>	30,541,029	30,687,266
Pelupusan / <i>Disposals</i>	28,891	4,877,000
	31,427,163	43,089,638
KURANGAN PENDAPATAN / INCOME DEFICIT	(3,643,538)	(6,723,411)
Tolak: Perbelanjaan luar biasa / <i>Less: Extraordinary expenditures</i>	0	(1,537,743)
	(3,643,538)	(8,261,154)
BAKI KUMPULANWANG DIBAWA KE HADAPAN / FUND BALANCE BROUGHT FORWARD		
– Seperti yang dinyatakan terdahulu / <i>As previously stated</i>	180,268,633	173,644,173
– Pelarasan tahun lalu / <i>Prior year adjustment</i>	(5,397,708)	6,085,614
– Seperti yang dinyatakan semula / <i>As restated</i>	174,870,925	179,729,787
Pindahan dari: / <i>Transfer from:</i>		
Kumpulanwang Mengurus / <i>Operating Fund</i>	275,671	3,500,000
Kumpulanwang Kursus, Seminar, Konferensi dan Lawatan Sambil Belajar / <i>Course, Seminar, Conference and Study Visit Fund</i>	15,000,000	3,000,000
Kumpulanwang Pelaburan / <i>Investment Fund</i>	2,000,000	0
Kumpulanwang Kolej Kediaman / <i>Residential College Fund</i>	0	2,300,000
	188,503,058	180,268,633
Geran Kerajaan Tertunda / Deferred Government grants		
Baki pada 1 Januari / <i>Balance as at 1 January</i>	247,170,131	283,041,342
Pemberian Kerajaan pada tahun semasa / <i>Government grants in current year</i>	57,164,172	10,000,000
Pindahan aset ke Kolej Universiti Sains dan Teknologi Malaysia (KUSTEM) / <i>Transfer of asset to Kolej Universiti Sains dan Teknologi Malaysia (KUSTEM)</i>	0	(6,330,330)
Pindahan pembinaan dalam kemajuan ke KUSTEM / <i>Transfer of works in progress to KUSTEM</i>	0	(5,255,478)
	304,334,303	281,455,534
Tolak: Pelunasan dalam tahun / Less: Amortisation in year		
Susutnilai ke atas aset tetap / <i>Depreciation of fixed assets</i>	(26,049,479)	(26,760,031)
Belanja operasi projek yang tidak dimodalkan / <i>Non-capitalised project operation expenditure</i>	(857,243)	(7,525,372)
	(26,906,722)	(34,285,403)
Baki pada 31 Disember / <i>Balance as at 31 December</i>	277,427,581	247,170,131
BAKI KUMPULANWANG DIHANTAR KE HADAPAN / FUND BALANCE CARRIED FORWARD	465,930,639	427,438,764

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

15. KUMPULANWANG PENYELIDIKAN / RESEARCH FUND

	2005 RM	2004 RM
PENDAPATAN / INCOME		
Geran kerajaan / <i>Government grants</i>	17,670,538	29,285,565
Pelbagai yuran / <i>Miscellaneous fees</i>	658,035	349,959
Geran kerajaan tertunda direalisasi / <i>Realisation of deferred Government grants</i>	245,800	0
Sumbangan / <i>Contribution</i>	12,576,724	8,378,565
Faedah simpanan tetap / <i>Fixed deposit interest</i>	4,186	5,790
Pelbagai sewa / <i>Sundry rentals</i>	44,420	97,920
Pendapatan lain / <i>Other income</i>	6,418,790	5,140,135
	37,618,493	43,257,934
Tolak: PERBELANJAAN / Less: EXPENDITURE		
Bekalan dan bahan-bahan / <i>Supplies and materials</i>	12,532,228	16,101,747
Penyelenggaraan dan pembaikan / <i>Maintenance and repairs</i>	972,284	950,587
Perkhidmatan iktisas dan perbelanjaan lain / <i>Professional services and expenditures</i>	26,991,970	28,828,400
Susutnilai / <i>Depreciation</i>	8,276,083	7,389,316
Hutang ragu / <i>Doubtful debts</i>	8,875	15,875
Pelupusan / <i>Disposal</i>	8,911	25,816
	48,790,351	53,311,741
	(11,171,858)	(10,053,807)
KURANGAN PENDAPATAN / INCOME DEFICIT		
BAKI KUMPULANWANG DIBAWA KE HADAPAN / FUND BALANCE BROUGHT FORWARD		
– Seperti yang dinyatakan terdahulu / <i>As previously stated</i>	120,484,007	124,330,923
– Pelarasan tahun lalu / <i>Prior year adjustment</i>	(7,813)	1,132,380
	120,476,194	125,463,303
Pindahan dari/ (ke): / <i>Transfer from / (to):</i>		
Kumpulanwang Mengurus / <i>Operation Fund</i>	425,906	94,500
Kumpulanwang Pelaburan / <i>Investment Fund</i>	(4,891,236)	5,000,000
Kumpulanwang Tabung Pusingan dan Amanah Lain / <i>Revolving and Other Trust Fund</i>	(95,171)	(19,989)
BAKI KUMPULANWANG DIHANTAR KE HADAPAN / FUND BALANCE CARRIED FORWARD	104,743,835	120,484,007
Geran Kerajaan Tertunda / <i>Deferred Government grants</i>		
Baki pada 1 Januari / <i>Balance as at 1 January</i>	0	0
Pindahan aset projek COMBICAT dari Universiti Malaya / <i>Transfer of COMBICAT projects from Universiti Malaya</i>	1,229,000	0
	1,229,000	0
Tolak: Pelunasan dalam tahun / Less: Amortisation		
Susutnilai ke atas aset tetap / <i>Depreciation of fixed assets</i>	(245,800)	0
	(245,800)	0
Baki pada 31 Disember / <i>Balance as at 31 December</i>	983,200	0
BAKI KUMPULANWANG DIHANTAR KE HADAPAN / BALANCE CARRIED FORWARD	105,727,035	120,484,007

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

	2005 RM	2004 RM
PENDAPATAN / INCOME		
Geran kerajaan / <i>Government grants</i>	4,799,120	12,283,814
Pelbagai yuran / <i>Miscellaneous fees</i>	16,746,520	16,850,217
Sumbangan / <i>Contributions</i>	1,008,313	4,567,583
Faedah simpanan tetap / <i>Fixed deposit interests</i>	1,155,983	486,134
Untung atas jualan saham / <i>Profit on sale of shares</i>	76,634	0
Pelbagai sewa / <i>Sundry rentals</i>	56,784	57,817
Pendapatan lain / <i>Other income</i>	10,071,943	10,624,704
	33,915,297	44,870,269
Tolak: PERBELANJAAN / Less: EXPENDITURE		
Bekalan dan bahan-bahan / <i>Supplies and materials</i>	4,501,499	4,586,145
Penyelenggaraan dan pembaikan / <i>Maintenance and repairs</i>	757,405	1,086,457
Perkhidmatan iktisas dan perbelanjaan lain / <i>Professional services and other expenditures</i>	22,679,676	34,145,807
Susutnilai / <i>Depreciation</i>	2,882,893	2,489,962
Pelupusan / <i>Disposal</i>	882,262	26,149
Hutang ragu / <i>Doubtful debts</i>	1,380,860	2,216,618
	33,084,595	44,551,138
	830,702	319,131
LEBIHAN PENDAPATAN / SURPLUS INCOME		
BAKI KUMPULANWANG DIBAWA KE HADAPAN /		
FUND BALANCE BROUGHT FOWARD		
- Seperti yang dinyatakan terdahulu / <i>As previously stated</i>	115,550,271	115,816,766
- Pelarasan tahun lalu / <i>Prior year adjustment</i>	(3,185)	(617,567)
- Seperti yang dinyatakan semula / <i>As restated</i>	115,547,086	115,199,199
Pindahan dari /(ke): / <i>Transfer from/(to):</i>		
Kumpulanwang Mengurus / <i>Operating Fund</i>	92,000	38,250
Kumpulanwang Pembangunan / <i>Development Fund</i>	0	0
Kumpulanwang Penyelidikan / <i>Research Fund</i>	95,171	0
Kumpulanwang Penginapan & Rekreasi / <i>Accommodation and Recreation Fund</i>	(2,361)	0
Kumpulanwang Kursus, Seminar, Konferensi dan Lawatan Sambil Belajar / <i>Course, Seminar, Conference and Study Visit Fund</i>	7,997	0
	0	(6,309)
BAKI KUMPULANWANG DIHANTAR KE HADAPAN /		
FUND BALANCE CARRIED FORWARD	116,570,595	115,550,271

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

17. KUMPULANWANG PENGINAPAN DAN REKREASI / ACCOMMODATION AND RECREATION FUND

	2005 RM	2004 RM
PENDAPATAN / INCOME		
Sumbangan / <i>Contribution</i>	10,183	10,981
Pelbagai sewa / <i>Sundry rentals</i>	613,203	199,774
Pendapatan lain / <i>Other income</i>	846,957	967,801
	1,470,343	1,178,556
Tolak: PERBELANJAAN / Less: EXPENDITURE		
Bekalan dan bahan-bahan / <i>Supplies and materials</i>	227,013	162,384
Penyelenggaraan dan pembaikan / <i>Maintenance and repairs</i>	221,291	431,093
Perkhidmatan iktisas dan hospitaliti / <i>Professional services and hospitality</i>	214,329	142,519
Susutnilai / <i>Depreciation</i>	289,006	282,832
Pelupusan / <i>Disposal</i>	0	22,727
	951,639	1,041,555
LEBIHAN PENDAPATAN / SURPLUS INCOME	518,704	137,001
BAKI KUMPULANWANG DIBAWA KE HADAPAN / BALANCE FUND CARRIED FORWARD		
- Seperti yang dinyatakan terdahulu / <i>As previously stated</i>	5,432,597	5,224,360
- Pelarasan tahun lalu / <i>Prior year adjustment</i>	(146)	71,236
- Seperti yang dinyatakan semula / <i>As restated</i>	5,432,451	5,295,596
BAKI KUMPULANWANG DIHANTAR KE HADAPAN / FUND BALANCE CARRIED FORWARD	5,951,155	5,432,597
Pindahan dari/ (ke): / <i>Transfer from/(to):</i>		
Kumpulanwang Tabung Pusingan dan Amanah Lain / <i>Revolving and Other Trust Fund</i>	2,361	0
	5,953,516	5,432,597

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

18. KUMPULANWANG PELABURAN / INVESTMENT FUND

	2005 RM	2004 RM
PENDAPATAN / INCOME		
Faedah dan dividen / <i>Investment and dividend</i>	2,546,979	9,446,081
Untung/(rugi) atas jualan saham / <i>Profit/(loss) on sale of shares</i>	(1,049,342)	79,180
Pengurangan peruntukan rosotnilai saham / <i>Decrease in provision for diminution of shares</i>	196,070	0
Pendapatan lain / <i>Other income</i>	127,350	29
	1,821,057	9,525,290
Tolak: PERBELANJAAN / Less: EXPENDITURE		
Perkhidmatan iktisas dan perbelanjaan lain / <i>Professional services and other expenditure</i>	40,908	41,937
Penambahan rosotnilai saham / <i>Increase in diminution of shares</i>	0	51,997
	40,908	93,934
LEBIHAN PENDAPATAN / SURPLUS INCOME	1,780,149	9,431,356
BAKI KUMPULANWANG DIBAWA KE HADAPAN / FUND BALANCE BROUGHT FORWARD	55,784,323	51,352,967
	57,564,472	60,784,323
Pindahan (ke): / Transfer (to):		
Kumpulanwang Penyelidikan / <i>Research Fund</i>	4,891,236	(5,000,000)
Kumpulanwang Pembangunan / <i>Development Fund</i>	(2,000,000)	0
BAKI KUMPULANWANG DIHANTAR KE HADAPAN / FUND BALANCE CARRIED FORWARD	60,455,708	55,784,323

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

	2005 RM	2004 RM
PENDAPATAN / INCOME		
Pelbagai yuran / <i>Miscellaneous fees</i>	16,056,143	24,515,534
Sumbangan luar / <i>Contribution</i>	474,632	358,890
Faedah simpanan tetap / <i>Interest on fixed deposit</i>	687,304	320,927
Pelbagai sewa / <i>Sundry rentals</i>	132,625	0
Pendapatan lain / <i>Other Income</i>	10,065,063	3,147,755
	27,415,767	28,343,106
Tolak: PERBELANJAAN / Less: EXPENDITURE		
Bekalan dan bahan-bahan / <i>Supplies and materials</i>	6,352,110	3,541,098
Penyelenggaraan dan pembaikan / <i>Maintenance and repairs</i>	1,967,065	496,236
Perkhidmatan iktisas dan hospitaliti / <i>Professional services and hospitality</i>	15,014,830	17,233,796
Susutnilai / <i>Depreciation</i>	1,597,605	1,605,469
Pelupusan / <i>Disposal</i>	17,363	56,017
Hutang ragu / <i>Doubtful debts</i>	123,614	278,425
	25,072,587	23,211,041
	2,343,180	5,132,065
LEBIHAN PENDAPATAN / SURPLUS INCOME		
BAKI KUMPULANWANG DIBAWA KE HADAPAN		
FUND BALANCE BROUGHT FORWARD		
- Seperti yang dinyatakan terdahulu / <i>As previously stated</i>	87,390,383	85,104,499
- Pelarasan tahun lalu / <i>Prior year adjustment</i>	(325)	102,321
- Seperti yang dinyatakan semula / <i>As restated</i>	87,390,058	85,206,820
Pindahan dari/(ke): / <i>Transfer from/(to):</i>		
Kumpulanwang Penyelidikan / <i>Research Fund</i>	0	19,989
Kumpulanwang Mengurus / <i>Operating Fund</i>	203,000	25,200
Kumpulanwang Pembangunan / <i>Development Fund</i>	(15,000,000)	(3,000,000)
Kumpulanwang Tabung Pusingan dan Amanah Lain / <i>Revolving and Other Trust Fund</i>	(7,997)	6,309
BAKI KUMPULANWANG DIHANTAR KE HADAPAN /		
FUND BALANCE CARRIED FORWARD		
	74,928,241	87,390,383

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

20. KUMPULANWANG PINJAMAN KENDERAAN DAN KOMPUTER /

VEHICLE AND COMPUTER LOAN FUND

	2005 RM	2004 RM
Kumpulanwang Pinjaman Kenderaan / Vehicle Loan Fund		
Baki pinjaman yang telah diluluskan / <i>Balance of approved funds</i>	10,097,910	12,032,898
Baki yang belum dipinjamkan / <i>Balance of funds which have not been borrowed</i>	10,902,090	10,967,102
Pindahan ke Kumpulanwang Pinjaman Skim Latihan Akademik / <i>Transfer to Academic Training Scheme Loan Fund</i>	1,000,000	0
Baki kumpulanwang dibawa dan dihantar ke hadapan / <i>Fund balance brought and carried forward</i>	22,000,000	23,000,000
Kumpulanwang Pinjaman Komputer / Computer Loan Fund		
Baki pinjaman yang telah diluluskan / <i>Balance of approved funds</i>	1,091,519	960,170
Baki yang belum dipinjamkan / <i>Balance of funds which have not been borrowed</i>	908,481	1,039,830
Baki Kumpulanwang dibawa dan dihantar ke hadapan / <i>Fund balance brought and carried forward</i>	2,000,000	2,000,000
Kumpulanwang Pinjaman Skim Latihan Akademik / Academic Training Scheme Loan Fund		
Baki pinjaman yang telah diluluskan / <i>Balance of approved funds</i>	27,600	0
Baki yang belum dipinjamkan / <i>Balance of funds which have not been borrowed</i>	972,400	0
Baki Kumpulanwang dibawa dan dihantar ke hadapan / <i>Fund balance brought and carried forward</i>	1,000,000	0
JUMLAH BAKI KUMPULANWANG PINJAMAN KENDERAAN DAN KOMPUTER DIHANTAR KE HADAPAN / TOTAL VEHICLE AND COMPUTER LOAN FUND CARRIED FORWARD	25,000,000	25,000,000

Jumlah faedah yang diperolehi pada tahun 2005 sebanyak RM463,074 (2004: RM508,884) telah dipindahkan ke Kumpulanwang Pelaburan pada 31 Disember 2005.

Interest payments obtained in 2005 totalling RM463,074 (2004: RM508,884) has been transferred to Investment Fund on 31 December 2005.

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

21. GERAN KERAJAAN TERTUNDA DIREALISASI / REALISATION OF DEFERRED GOVERNMENT GRANTS

	2005 RM	2004 RM
Kumpulanwang Pembangunan / Development Fund		
Susutnilai ke atas aset tetap / Depreciation of fixed assets	26,049,479	26,760,031
Belanja operasi projek yang tidak dimodalkan / Non-capital project operation expenditure	857,243	7,525,372
	26,906,722	34,285,403
Kumpulanwang Penyelidikan / Research Fund		
Susutnilai ke atas aset tetap / Depreciation of fixed assets	245,800	0
	245,800	0
Jumlah / Total	27,152,522	34,285,403

22. GERAN KERAJAAN / GOVERNMENT GRANTS

	2005 RM	2004 RM
Geran kerajaan adalah untuk membiayai perbelanjaan seperti berikut:-/ Government grants are for financing expenditures which are as follows:		
(a) Mengurus / Operating	394,528,570	287,888,227
(b) Penyelidikan / Research	17,670,538	29,285,565
(c) Skim Latihan Pembangunan Sumber Manusia / Human Development Training Scheme	2,343,234	7,716,416
(d) Skim Latihan Akademik dan Biasiswa (SLAB) / Academic Training and Scholarship Scheme (SLAB)	1,206,864	2,940,851
(e) Skim Sangkutan Pembantu Pengajar / Assistant Tutor Support Scheme	39,091	26,547
(f) Skim Pasca Siswazah / Post-graduate scheme	719,931	1,600,000
(g) Pemfailan Paten Penyelidikan / Research patent filing	490,000	0
	416,998,228	329,457,606

23. PELBAGAI YURAN / MISCELLANEOUS FEES

	2005 RM	2004 RM
(a) Yuran Pengajian / Tuition fees	37,328,819	41,326,797
(b) Yuran Kolej Kediaman / Residential college fees	9,710,182	9,260,789
(c) Yuran Kursus dan Seminar/Pendidikan Jarak Jauh dan Program Eksekutif / Course and Seminar / Distance Learning and Executive programme fees	16,056,143	24,515,534
(d) Yuran Lain / Other fees	17,404,555	17,200,176
	80,499,699	92,303,296

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

24. PENDAPATAN LAIN / OTHER INCOME

	2005 RM	2004 RM
Pendapatan mengikut klasifikasi kumpulanwang: / Income according to classification of funds:		
(a) Mengurus / <i>Operating</i>	16,926,768	4,362,146
(b) Kolej Kediaman / <i>Residential college</i>	1,052,336	493,783
(c) Pembangunan / <i>Development</i>	876,903	2,080,824
(d) Penyelidikan / <i>Research</i>	6,418,790	5,140,135
(e) Tabung Pusingan dan Amanah Lain / <i>Revolving and Other Trust</i>	10,071,943	10,624,704
(f) Penginapan dan Rekreasi / <i>Accommodation and Recreation</i>	846,957	967,801
(g) Pelaburan / <i>Investment</i>	127,350	29
(h) Kursus, Seminar, Konferensi dan Lawatan Sambil Belajar / <i>Course, Seminar, Conference and Study Visit</i>	10,065,063	3,147,755
	46,386,110	26,817,177

25. PELARASAN TAHUN LALU / PRIOR YEAR ADJUSTMENT

	2005 RM	2004 RM
(a) Melaraskan pendapatan agihan sewa daripada Canary Inforport Sdn. Bhd. bagi melunaskan sebahagian daripada kos pembinaan 4 buah dewan kuliah / <i>Adjustment to the distribution of rental income from Canary Inforport Sdn Bhd for amortising portion of the building cost of 4 lecture halls</i>	0	569,249
(b) Melaraskan perbelanjaan salah caj akaun / <i>Adjustment to wrongly charge expenses account</i>	0	254,330
(c) Melaraskan semula hutang pecah kontrak staf dan pasca siswazah / <i>Readjustment of staff and post graduates breach of contract list</i>	0	(2,941,627)
(d) Melaraskan peruntukan susutnilai yang terlebih diambilkira pada tahun sebelum 2004 oleh kerana pertukaran sistem pengurusan aset / <i>Adjustment to provision for depreciation which had been wrongly accounted for the year before 2004 as a result of changes in the asset management system</i>	(3,880,849)	7,547,521
(e) Selaras cagaran sewa rumah pangsa UPMT / <i>Adjustment for rental deposit for UPMT Flat</i>	(104,580)	0
(f) Selaras pelbagai cagaran Putra Inforport / <i>Adjustment for Putra Inforport miscellaneous deposit</i>	(70,800)	0
(h) Selaras akaun salah caj tahun sebelum (UPM Bintulu) / <i>Adjustment for previous year wrongly charge of account (UPM Bintulu)</i>	61,400	0
	(3,994,829)	5,429,473

Nota-nota kepada Penyata Kewangan (samb.)

Notes to the Financial Statement (cont'd.)

26. PENGLIBATAN MODAL DAN BUKAN MODAL / CAPITAL AND NON-CAPITAL INVOLVEMENT

	2005 RM	2004 RM
Perbelanjaan modal dan bukan modal yang diluluskan tetapi tidak diperuntukkan di dalam akaun: <i>Approved capital and non-capital expenditure but not provided for in the accounts:</i>		
– Baki nilai kerja pembinaan dalam kemajuan / <i>Balance value of works</i>	82,745,748	157,153,024
– Jumlah pesanan belian yang ditanggung / <i>Total committed purchase orders</i>	10,116,892	51,084,903
	92,862,640	208,237,927

Mulai tahun 2003 jumlah nilai kerja yang belum dikontrakkan tidak diambilkira sebagai sebahagian daripada penglibatan modal.

Beginning year 2003, total value of work not yet to be contracted has not been considered as part of the capital involvement

27. LIABILITI KONTINGENSI / CONTINGENT LIABILITIES

	2005 RM	2004 RM
(a) Bayaran terakhir Projek Pembinaan Lubang Kedua Padang Golf, UPM tertanggung sehingga mendapat keputusan mahkamah tinggi / <i>Final payment for Pembinaan Lubang Kedua Padang Golf, UPM pending until received High Court decision</i>	901,710	901,710
(b) Tuntutan saman oleh Acctrack 21 Sdn Bhd terhadap UPM bagi kes hakcipta perisian komputer / <i>Legal proceedings by Acctrack 21 Sdn Bhd against UPM in respect of computer software copyright</i>	250,000	250,000
(c) Tuntutan saman oleh staf terhadap UPM bagi kes pemberhentian kerja / <i>Legal action by UPM staff for termination of employment</i>	200,000	200,000
(d) Tuntutan saman oleh staf terhadap staf UPM yang lain di mana UPM mengakujaji bertindak dan menguruskan bagi pihak defenden / <i>Legal action by staff against other UPM staff wherein UPM undertook to act and defend on behalf of the defendants</i>	5,000,000	5,000,000
(e) Tuntutan saman oleh pelajar yang gagal dan diberhentikan terhadap UPM supaya diambil semula untuk meneruskan pengajian / <i>Legal action against UPM by failed and sacked student seeking to recontinued studies</i>	250,000	0
	6,601,710	6,351,710

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 altered to be in tandem with this year's presentation.

Sidang Pengarang Laporan Tahunan UPM

Pengerusi

Prof. Dr. Jambari Ali

Editor

Pn. Noorizai Haji Mohamad Noor

Encik Muhamad Zaki Mustafa

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Prof. Madya Dr. Mansor Ahmad

Prof. Madya Dr. Raha Abdul Rahim

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Cik Kalpana a/p Subramaniam

Pelatih (FBMK)

Mohamed Faiz Mohamad Hadli





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Universiti Putra Malaysia, 43400 UPM Serdang, Selangor Darul Ehsan, Malaysia

T (603) 8946 6003 **F** (603) 8948 7273

www.upm.edu.my