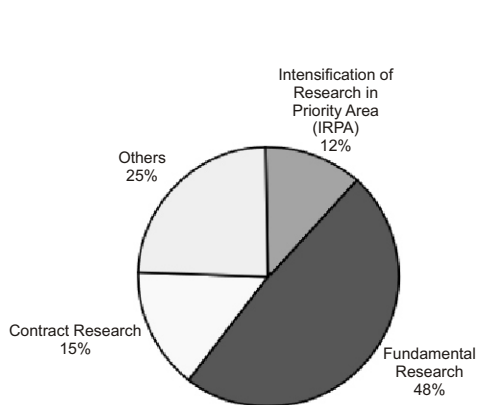


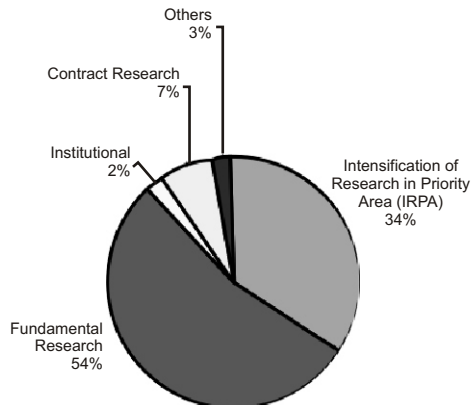


**RESEARCH  
PROJECTS  
&  
GRANTS**

### PROJECT DISTRIBUTION BY CATEGORY

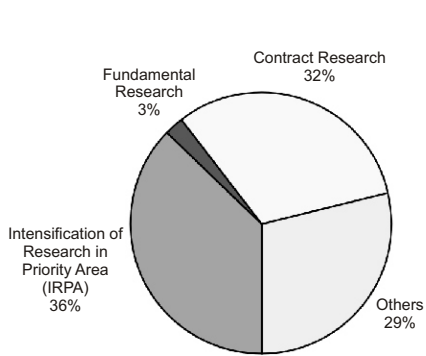


Year 2005

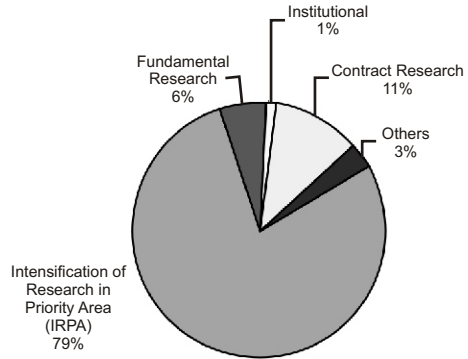


RMK 8 until 31 December 2005

## ALLOCATION DISTRIBUTION



Year 2005



RMK 8 until 31 December 2005

## 8th MALAYSIAN PLAN (RMK 8) PROJECTS & GRANTS ALLOCATION BY FACULTY (UNTIL 31 DEC 2005)

Faculty/ Unit/ Department	IRPA		Fundamental Research		Institutional Research-UTM		Contract Research		Others		Total	
	Projects No.	Allocation (RM)	Projects No.	Allocation (RM)	Projects No.	Allocation (RM)	Projects No.	Allocation (RM)	Projects No.	Allocation (RM)	Projects No.	Allocation (RM)
ATMA	2	276,200.00	3	60,000.00	0	0.00	0	0.00	0	0.00	5	336,200.00
FAB	8	899,950.00	31	514,820.16	1	25,000.00	10	1,518,034.00	0	0.00	50	2,957,804.16
FKA	26	5,157,415.00	47	1,049,888.00	3	78,000.00	7	1,693,822.00	12	4,037,205.00	95	12,016,330.00
FKE	46	19,347,239.19	18	374,750.00	2	480,000.00	6	1,590,156.00	1	83,000.00	73	21,875,145.19
FKKSA	73	31,418,229.00	51	1,119,300.00	1	20,000.00	6	6,935,754.00	2	205,000.00	133	39,698,283.00
FKM	41	24,900,430.00	37	877,600.00	4	606,000.00	16	2,693,923.64	1	115,000.00	99	29,192,953.64
FKSG	34	8,546,120.00	47	918,920.00	3	53,210.00	5	3,271,165.90	2	172,000.00	91	12,961,415.90
FP	0	0.00	42	632,390.00	1	20,000.00	0	0.00	0	0.00	43	652,390.00
FPPSM	11	1,402,876.00	90	1,379,715.73	4	43,750.00	15	564,191.10	0	0.00	120	3,390,532.83
FS	50	30,650,768.00	66	1,398,330.00	2	35,000.00	3	397,326.00	7	1,125,338.12	128	33,606,762.12
FSKSM	42	7,088,248.00	51	966,700.00	0	0.00	0	0.00	0	0.00	93	8,054,948.00
PPD	5	922,000.00	28	476,734.64	0	0.00	0	0.00	0	0.00	33	1,398,734.64
PPIPS	0	0.00	25	308,270.00	0	0.00	0	0.00	0	0.00	25	308,270.00
PSZ	0	0.00	1	19,100.00	0	0.00	0	0.00	0	0.00	1	19,100.00
UNIPEN	0	0.00	0	0.00	2	46,725.89	0	0.00	0	0.00	2	46,725.89
UPSP	0	0.00	0	0.00	1	27,750.00	0	0.00	0	0.00	1	27,750.00
<b>Total</b>	<b>338</b>	<b>130,609,475.19</b>	<b>537</b>	<b>10,086,518.53</b>	<b>24</b>	<b>1,435,435.89</b>	<b>68</b>	<b>18,664,372.64</b>	<b>25</b>	<b>5,737,543.12</b>	<b>992</b>	<b>166,543,345.37</b>

## PROJECTS & GRANTS ALLOCATION BY FACULTY (FOR YEAR 2005)

Faculty/ Unit/ Department	IRPA		Fundamental Research		Contract Research		Others		Total	
	Projects No.	Allocation (RM)	Projects No.	Allocation (RM)	Projects No.	Allocation (RM)	Projects No.	Allocation (RM)	Projects No.	Allocation (RM)
ATMA	0	0.00	2	15,000.00	0	0.00	0	0.00	2	15,000.00
FAB	0	0.00	0	0.00	2	228,400.00	0	0.00	2	228,400.00
FKA	1	298,000.00	6	52,500.00	0	0.00	4	1,102,300.00	11	1,452,800.00
FKE	1	97,000.00	1	12,500.00	2	925,000.00	1	83,000.00	5	1,117,700.00
FKKKSA	2	171,200.00	4	60,000.00	0	0.00	2	205,000.00	8	436,200.00
FKM	1	2,849,200.00	1	15,000.00	0	0.00	1	115,000.00	4	2,979,200.00
FKSG	0	0.00	0	0.00	1	1,700,000.00	2	172,000.00	3	1,872,000.00
FP	0	0.00	1	0.00	5	190,400.00	0	0.00	6	190,400.00
FPPSM	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
FS	0	0.00	1	10,000.00	0	0.00	6	1,077,877.43	7	1,087,877.43
FSKSM	2	162,000.00	2	32,000.00	0	0.00	0	0.00	4	194,000.00
PPD	0	0.00	4	0.00	0	0.00	0	0.00	4	0.00
PPIPS	0	0.00	9	59,500.00	0	0.00	0	0.00	9	59,500.00
<b>Total</b>	<b>8</b>	<b>3,577,400.00</b>	<b>31</b>	<b>256,500.00</b>	<b>10</b>	<b>3,044,000.00</b>	<b>16</b>	<b>2,755,177.43</b>	<b>65</b>	<b>9,633,077.43</b>



**AWARDS**

## OVERALL R&D COMPETITION AWARDS UNTIL 31 DEC 2005

EVENTS	Gold	Silver	Bronze	Special Awards	Total
International Exhibition of Inventions, New Techniques and Products, Geneva	15	14	8	5	42
Invention and New Products Exposition (INPEX), USA	1	5	3	1	10
Seoul International Invention Fair (SIIF) Seoul, Korea	1	5	1		7
Solar Bikerace USA				3	3
World Solar Cycle Challenge Australia				3	3
Anugerah Saintis Muda ASEAN				1	1
Khawarizmi International Award, Iran				1	1
International Exhibition Ideas-Invention-New Products (IENA), Germany	3	5	2		10
The Association Hungarian Inventors Genius Prize				2	2
Women Inventor Award, Geneva				1	1
British Invention Show (BIS)	2	2		2	6
<b>International</b>	<b>22</b>	<b>31</b>	<b>14</b>	<b>19</b>	<b>86</b>
EXPO Science and Technology (EXPO S&T)	7	23	23		53
Invention, Innovation, Industrial Design and Technology Exhibition (ITEX)	7	12	14		33
Malaysian Invention and Design Exhibition (MINDEX/INNOTEX)		2	1	1	4
ROBOCON				3	3
Pameran Penyelidikan dan Pembangunan IPTA	22	9	8	19	58
Petronas Inventors Awards				3	3
Anugerah Saintis Muda Negara				1	1
Anugerah Pereka Cipta Negara				1	1
Korea Invention Academy				1	1
<b>National</b>	<b>36</b>	<b>46</b>	<b>46</b>	<b>29</b>	<b>157</b>

## R&D COMPETITION AWARDS YEAR 2005

Events	Gold	Silver	Bronze	Special Award	Total
International Exhibition of Inventions, New Techniques and Products, Geneva	5	3	2	1	11
Invention and New Products Exposition (INPEX), USA		2	2	1	5
International Exhibition Ideas-Invention-New Products (IENA), Germany	1	2			3
British Invention Show (BIS)	1	2		1	4
<b>International</b>	<b>7</b>	<b>9</b>	<b>4</b>	<b>3</b>	<b>23</b>
Pameran Penyelidikan dan Pembangunan IPTA (IPTA R&D Expo)	22	9	8	8	47
Invention, Innovation, Industrial Design and Technology Exhibition (ITEX)	2	2	1		5
<b>National</b>	<b>24</b>	<b>11</b>	<b>9</b>	<b>8</b>	<b>52</b>





# INTERNATIONAL AWARDS

**33<sup>RD</sup> INTERNATIONAL EXHIBITION OF INVENTION,  
NEW TECHNIQUES AND PRODUCTS, GENEVA 2005  
6TH 10TH APRIL 2005**

Project Leader	Faculty	Products Title	Medal
Prof. Dr. Ruzairi Abd. Rahim	FKE	Vehicle Security System Via Sms	Gold and Special Jury Award Prix De L' Automobile Club De Suisse
Assoc. Prof. Dr. Azlan Adnan	FKA	Digital Triaxial Seismo Accelerograph System Using Mass And Hall Sensors	Gold
Prof. Dr Mohammed Amin Alias	FKE	Smart Stethoscope	Gold
Assoc. Prof. Mustafa Yusof	FKM	Uni- Tandu Mobile Patient Transfer System	Gold
Assoc. Prof. Dr. Syed Abd. Rahman Syed Abu Bakar	FKE	Hyperbars- High Performance Barcode Reader Software	Gold
Prof. Dr. Nor Aishah Saidina Amin	FKKSA	High Octane Gasoline Range Hydrocarbon S From Palm Oil	Silver
Prof. Dr. Ruzairi Abd. Rahim	FKE	High Speed Online Monitoring System For Solid/Gas Flow In Process Industries	Silver
Prof. Dr. Ruzairi Abd. Rahim	FKE	New Generation Industrial Liquid Flow Imaging Instruments	Silver
Prof Dr Abu Bakar Mohammad	FKE	UTM-Prg- Mems Optical Switch	Bronze
Assoc. Prof. Dr. Safian Sarif	FKM	Special Drill For Drilling Aerospace Material	Bronze

**INVENTION & NEW PRODUCTS EXPOSITION INPEX 2005**  
**PITTSBURGH, PENNSYLVANIA, USA**  
**8TH 11TH JUNE 2005**

Project Leader	Faculty	Products Title	Medal
Muhammad Razib Othman	FSKSM	2D Engineering Drawing Extractor	The Best Invention Of The Pacific RIM Award
Muhammad Razib Othman	FSKSM	2D Engineering Drawing Extractor	Silver - Engineering Category
Muhammad Razib Othman	FSKSM	2D Engineering Drawing Extractor	Silver - Design (Technical)
Muhammad Razib Othman	FSKSM	2D Engineering Drawing Extractor	Bronze - Automotive Category
Muhammad Razib Othman	FSKSM	2D Engineering Drawing Extractor	Bronze - Computer Software Category

**THE BRITISH INVENTION SHOW 2005**  
**ALEXANDRA PALACE, LONDON, ENGLAND**  
**20TH 23RD OCTOBER 2005**

Project Leader	Faculty	Products Title	Medal
Prof. Dr. Tharek Abd. Rahman	FKE	Tracking System For Vehicle Monitoring	Special Award Consumer
Prof. Dr. Tharek Abd. Rahman	FKE	Tracking System For Vehicle Monitoring	Gold
Prof. Dr. Tharek Abd. Rahman	FKE	A Wifigeoloc: A Multi- Floor IEEE 802.11b/G Wireless Local Area Network Based Indoor Geo- Location System	Silver
Prof. Dr. Tharek Abd. Rahman	FKE	Microwave Design With Adaptive Transmit Power Control For Rain Attenuation Problem In Tropical Region	Silver

**INTERNATIONAL EXHIBITION IDEAS INVENTION NEW PRODUCTS  
NUREMBERG EXHIBITION CENTRE, HALL 12, NUREMBERG GERMANY  
3<sup>RD</sup> 6<sup>TH</sup> NOVEMBER 2005**

<b>Project Leader</b>	<b>Faculty</b>	<b>Products Title</b>	<b>Medal</b>
Assoc. Prof. Dr Rosli Yunus	FKKSA	A Novel Ultrasonic-Distillation System For Separation Of Azeotropic Mixtures	Gold
Assoc. Prof. Dr Siti Mariyam Hj. Shamsudin	FSKSM	Bahtera Modeler Nurbs Hybrid Parameterization For Ship Hull Design	Silver
Assoc. Prof. Dr Wan Azlina Ahmad	FS	Chromebac Environmental Solution For Cr (VI) Contamination In Wastewater	Silver



# NATIONAL AWARDS

**INDUSTRIAL ART AND TECHNOLOGY EXHIBITION INATEX  
DEWAN SULTAN ISKANDAR DSI , UTM  
10TH 12TH MARCH 2005**

Project Leader	Faculty	Products Title	Medal
Assoc. Prof. Dr. Syed Abd. Rahman Syed Abu Bakar	FKE	High Performance Real-Time Vision Based Barcode Reader	Gold
Muhammad Razib Othman dan Prof. Dr. Safaai Deris	FSKSM	Product Life-Cycle Management System	Gold
Prof. Dr. Abu Bakar Mohammad	FKE	Mems On/Off Optical Switch	Silver
Assoc. Prof. Mustafa Yusof	FKM	Mobile Patient Transfer System	Silver
Prof. Ir. Dr. Mohamed Amin Alias	FKE	Smart Stethoscope	Silver
Prof. Dr. Marzuki Khalid	FKE	Online-Signature Validation and Verification Using Neuro-Template Method	Bronze
Assoc. Prof. Dr. Safian Sharif	FKM	New Drill Geometry for Drilling Aerospace Materials	Bronze
Assoc. Prof. Dr. Rosli Mohd. Yunus.	FKKSA	A Novel Ultrasonic Distillation Technique for Separation of Azeotropic Mixtures	Special Jury Award
Muhammad Razib Othman	FSKSM	Product Life-Cycle Management System	The Best Invention
Muhammad Razib Othman	FSKSM	Product Life-Cycle Management System	Young Researcher 2005

**VENTION, INNOVATION, INDUSTRIAL DESIGN & TECHNOLOGY EXHIBITION ITEX 200  
PUTRA WORLD TRADE CENTRE, KUALA LUMPUR  
19TH 21ST MAY 2005**

<b>Project Leader</b>	<b>Faculty</b>	<b>Products Title</b>	<b>Medal</b>
Assoc. Prof. Dr. Rosli Mohd Yunus	FKKSA	A Novel Ultrasonic Distillation Technique For Separation Of Azeotropic Mixture	Gold
Assoc. Prof. Dr. Siti Mariyam Hj. Shamsudin	FSKSM	As-Hum Forecaster Rough Set Predictor For Stock Market Returns	Gold
Assoc. Prof. Dr. Siti Mariyam Hj. Shamsudin	FSKSM	Bahtera Modeler-Nurbs Hybrid Parameterization For Ship Hull Design	Silver
Prof. Dr. Tajuddin Ninggal	FP	Tajma Psybermatrix	Silver
Assoc. Prof. Dr. Wan Azlina Ahmad	FS	Chrome Bac- Environmental Solution For Cr (VI) Contamination Waste	Bronze

**IPTA R&D EXPO 2005**  
**PUTRA WORLD TRADE CENTRE**  
**30TH SEPTEMBER 2ND OCTOBER 2005**

Project Leader	Faculty	Products Title	Medal
Prof. Dr Ahmad Fauzi Ismail	FKKSA	Oxygen Enrichment System (OXES) Using Polysulfone Hollow Fiber Membrane	Best of The Best Award
Prof. Dr Ahmad Fauzi Ismail	FKKSA	Oxygen Enrichment System (OXES) Using Polysulfone Hollow Fiber Membrane	Special Award for Potential for Commercialization
Prof. Dr Noraleni Hj. Mokhtar	FKA	Sine Slab	Special Award for Advanced Manufacturing Cluster
Prof. Dr Sheikh Hussain b. Sheikh Salleh	FKE	Streetlight Monitoring and Management System	Special Award for Advanced Manufacturing Cluster
Prof. Dr Ahmad Fauzi Ismail	FKKSA	Conveyor-Drive Continuous Asymmetric Membrane Casting System and Spiral Wound Module for Gas Separation	Special Award for Advanced Materials Cluster
Harisun Yaakob	FKKSA	Natural Flavour Without Colour	Special Award for Biotechnology Cluster
Harisun Yaakob	FKKSA	The High Viability of Microencapsulated Probiotic bacteria	Special Award for Biotechnology Cluster
Prof. Dr Zaini Ujang	FKA	Decision Support System for design and Assessment of Wastewater Treatment Plant	Special Award for ICT Cluster
Prof. Dr Ahmad Fauzi Ismail	FKKSA	Oxygen Enrichment System (OXES) Using Polysulfone Hollow Fiber Membrane	Gold



Prof. Dr Ahmad Fauzi Ismail	FKKKSA	Conveyor-Drive Continuous Asymmetric Membrane Casting System and Spiral Wound Module for Gas Separation	Gold
Prof. Dr Ahmad Fauzi Ismail	FKKKSA	Novel Enzymatic Membrane Reactor (EMR) for Cyclodextrin Production from Tapioca Starch	Gold
Prof. Dr Ahmad Fauzi Ismail	FKKKSA	Novel Multiwalled Nanotubes (MWNTs) as Hydrogen Storage Material	Gold
Prof. Dr Hammaton Hamdan	FS	Green Chemistry : Nanostructured Materials from Organic Wastes	Gold
Harisun Yaakob	FKKKSA	Natural Flavour Without Colour	Gold
Harisun Yaakob	FKKKSA	The High Viability of Microencapsulated Probiotic bacteria	Gold
Prof. Dr. Marzuki Khalid	FKE	Dynamic Signature Verification System for Time Attendance	Gold
Prof. Dr Mohamed Khalil Hani	FKE	Smartcard Crypto- Processor & Hardware Security Module for Next Generation IT Security	Gold
Assoc. Prof. Dr. Mohd. Nasir Tamin	FKM	Low CTE Substrate for Vehicle Monitoring and Control Applications	Gold
Muhammad Razib Othman & Prof. Dr. Safaai Deris	FSKSM	2D Engineering Drawing Extractor ( EDEX)	Gold
Assoc. Prof. Mustafa Yusof	FKM	On-Line Cleaning of Heat Exchanger	Gold
Assoc. Prof. Dr. Nor Aziah Buang	FS	Methanizer Catalyst( METCAT) for CO <sub>2</sub> Removal in Natural gas via CO <sub>2</sub> /H <sub>2</sub> Methanation Reaction	Gold

Prof Dr. Noraienl Hj. Mokhtar	FKA	Sine Slab	Gold
Assoc. Prof. Dr. Rosli Mohd Yunus	FKKSA	Recycling Base Oil	Gold
Prof Ir. Dr Sheikh Hussain Sheikh Salleh	FKE	Streetlight Monitoring and Management System	Gold
Assoc. Prof. Dr. Syed Abd. Rahman Syed Abu Bakar	FKE	HyperBARS-High Performance Real-Time Vision- Based Barcode Reader	Gold
Prof Dr. Tharek Abd. Rahman	FKE	Tracking System for Vehicle Monitoring and Control Applications	Gold
Prof Dr. V.C Venkatesh	FKM	Novel Bondless Diamond Grinding Wheel for fine Finishing of Si Die and Chip Packaging for Failure analysis and for Generating Aspheric GlassLenses	Gold
Assoc. Prof. Dr. Wan Aizan Wan Abd. Rahman	FKKSA	Crosslinked High Density Polyethylene for Blow Molding Process	Gold
Prof Dr. Zaini Ujang	FKA	Decision Support System for design and Assessment of Wastewater Treatment Plant	Gold
Assoc. Prof. Dr. Zainuddin Abdul Manan	FKKSA	MATRIX- A Computer Software for Maximising Energy and Water Efficiency in Industry and Urban Sectors	Gold
Prof Dr Ali Ourdjini	FKM	Surface Finish Metallurgy for Flip Chip Interconnection	Silver
Assoc. Prof. Dr. Madzian Aziz	FS	Solid Rubber Blend Base Electrolyte for Rechargeable Batteries	Silver

Prof Dr. Md. Nor Musa	FKM	Rotary Compressor	Silver
Assoc. Prof. Dr. Mohd. Nasir Tamin	FKM	Methodology for Assessment of Plastic/Organic Package Failure Process Under Thermo-Mechanical Loading Conditions	Silver
Assoc. Prof. Dr. Nor Azlah Buang	FS	Novel Bimetallic Catalyst for the Production of High Purity Multi- Walled Carbon Nantubes (MWNTs)	Silver
Dr Norma Alias	FS	EPCL-High Performance Temperature Prediction for Multidimensional Manufacturing Product	Silver
Assoc. Prof. Dr. Shaharuddin Salleh	FS	ESSR- Single row Routing Technique for HighPerformance Network Designs.	Silver
Assoc. Prof. Dr. Wan Khairuddin Wan Ali	FKM	Compact Antenna	Silver
Assoc. Prof. Dr. Ahmad Zuri Shaameri	FKE	Secured HF Messaging System	Bronze
Prof Ir. Dr Azhar Abdul Aziz	FKM	Remotely- Piloted Surface Craft ( RPSC)	Bronze
Assoc. Prof. Dr. Azlan Adnan	FKA	SEER-SAG-THE SEISMO- ACCELERO -GRAPH	Bronze
Lee Ting Hun	FKKSA	Blanching Diagnostic Kit	Bronze
Lee Ting Hun	FKKSA	New Bird's Nest Extraction method	Bronze
Assoc. Prof. Dr. Mohd. Rozainee Taib	FKKSA	Conveyorised Microwave Dehydration System	Bronze
Assoc. Prof. Dr. Siti Maryam Hj. Shamsudin	FSKSM	As Hum Forecaster Rough Set Predictor (RSP) For Stock Market Returns	Bronze
Assoc. Prof. Dr. Zainal Salam	FKE	A New Bidirectional High-Frequency Link Inverter for Photovoltaic Application	Bronze



# INTELLECTUAL PROPERTY

**INTELLECTUAL PROPERTY RIGHTS  
UNTIL 31 DECEMBER 2005**

<b>CATEGORY</b>	<b>TOTAL</b>
Patent Filing	41
Utility Innovation	2
Industrial Design	2
Trademark	15
Copyright	31
Patent Granted	1
<b>TOTAL</b>	<b>92</b>
Disclosure	162

**INTELLECTUAL PROPERTY RIGHTS  
YEAR 2005**

<b>CATEGORY</b>	<b>TOTAL</b>
Patent Filing	7
Utility Innovation	0
Industrial Design	0
Trademark	9
Copyright	9
Patent Granted	0
<b>TOTAL</b>	<b>25</b>
Disclosure	54

## INTELLECTUAL PROPERTY FOR YEAR 2005

Title	Inventor	No.Filing / Patent
Electronic Cash System	Assoc. Prof. Dr. Jasmy Yunus. <i>Faculty of Electrical Engineering</i>	PI 2005 0110
Process for Production of High Purity, Amorphous, Carbon-Free Silica.	Assoc. Prof. Dr. Rozainee Taib <i>Faculty of Chemical &amp; Natural Resources Engineering</i>	PI 2005 0020
A Process for Producing Silane-Crosslinked High Density Polyolefin	Assoc. Prof. Dr. Wan Aizan Wan Abd. Rahman <i>Faculty of Chemical &amp; Natural Resources Engineering</i>	PI 2005 0854
Reverse Mechanism for Continuously Variable Transmission	Assoc. Prof. Dr. Kamarul Baharin Tawi <i>Faculty of Mechanical Engineering</i>	PI 2005 0682
Crosslinkable High Density Polyethylene Composition for Blow Molding Process	Assoc. Prof. Dr. Wan Aizan Wan Abd. Rahman <i>Faculty of Chemical &amp; Natural Resources Engineering</i>	PI 2005 2295
Small-Sized Slotted Radial Waveguide Antenna	Prof. Dr. Tharek Abd. Rahman <i>Faculty of Electrical Engineering</i>	PI 2005 3657
Data Selection From A Cadastral Database	Dr. Abdullah Hisam Omar <i>Faculty of Geoinformation Science and Engineering</i>	PI 2005 4560
UR SIGASAND (Class 1)	Assoc. Prof. Dr. Fadhadli Hj. Zakaria <i>Faculty of Civil Engineering</i>	05000 194 (Trademark)

UR PETSAND (Class 1)	Assoc. Prof. Dr. Fadhadli Hj. Zakaria <i>Faculty of Civil Engineering</i>	05000 195 (Trademark)
UR AKUASAND (Class 19)	Assoc. Prof. Dr. Fadhadli Hj. Zakaria <i>Faculty of Civil Engineering</i>	05000 193 (Trademark)
UTM (COLOUR) (Class 41)	Prof. Dr. Bahrom b. Sanugi <i>Dean of Corporate Affairs</i>	5013088 (Trademark)
UTM (COLOUR) (Class 42)	Prof. Dr. Bahrom b. Sanugi <i>Dean of Corporate Affairs</i>	5013092 (Trademark)
UTMOST (COLOUR) (Class 16)	Prof. Dr. Bahrom b. Sanugi <i>Dean of Corporate Affairs</i>	5013087 (Trademark)
UTMOST (COLOUR) (Class 17)	Prof. Dr. Bahrom b. Sanugi <i>Dean of Corporate Affairs</i>	5013090 (Trademark)
UTMOST (COLOUR) (Class 41)	Prof. Dr. Bahrom b. Sanugi <i>Dean of Corporate Affairs</i>	5013089 (Trademark)
UTMOST (COLOUR) (Class 42)	Prof. Dr. Bahrom b. Sanugi <i>Dean of Corporate Affairs</i>	5013091 (Trademark)
Water-Matrix- A Computer Software for Water and Energy Reductions in Industry and Public Buildings	Assoc. Prof. Dr. Zainuddin Abd. Manan <i>Faculty of Chemical &amp; Natural Resources Engineering</i>	Copyright 2005



As-Hum Data Manipulator	Assoc. Prof. Dr. Siti Mariyam Hj. Shamsuddin <i>Faculty of Computer Science &amp; Information System</i>	Copyright 2005
As-Hum Discretizer	Assoc. Prof. Dr. Siti Mariyam Hj. Shamsuddin <i>Faculty of Computer Science &amp; Information System</i>	Copyright 2005
As-Hum Predictor	Assoc. Prof. Dr. Siti Mariyam Hj. Shamsuddin <i>Faculty of Computer Science &amp; Information System</i>	Copyright 2005
Bahtera Modeler	Assoc. Prof. Dr. Siti Mariyam Hj. Shamsuddin <i>Faculty of Computer Science &amp; Information System</i>	Copyright 2005
Wind Power Map of Sabah & Sarawak	Prof. Ir. Dr. Abas Abd. Wahab <i>Faculty of Mechanical Engineering</i>	Copyright 2005
High Performance Temperature Behaviour for Multi-Dimensional Manufacturing Product	Assoc. Prof. Dr. Norma Alias <i>Faculty of Science</i>	Copyright 2005
Cascade Analysis Technique for Targetting The Minimum Resouce Requirement	Assoc. Prof. Dr. Zainuddin Abd. Manan <i>Faculty of Chemical &amp; Natural Resources Engineering</i>	Copyright 2005
A Hybrid Parametrization Method For Nurbs	Assoc. Prof. Dr. Siti Mariyam Hj. Shamsudin <i>Faculty of Computer Science &amp; Information System</i>	Copyright 2005



**PUBLICATION**

**LOCAL & INTERNATIONAL  
RESEARCH PAPER PUBLICATION PROCEEDING  
YEAR 2005**

Faculty / Department / Unit	Total
ATMA	1
FAB	0
FKA	3
FKE	4
FKKKSA	1
FKM	3
FKSG	0
FP	0
FPPSM	0
FS	1
FSKSM	7
PPD	1
PPIPS	0
<b>Total</b>	<b>21</b>



**POSTGRADUATE  
RESEARCH GRANT**

**POST GRADUATE RESEARCH GRANTS BY FACULTY, 8<sup>th</sup> MALAYSIAN PLAN (RMK 8)  
YEAR 2005**

Faculty	MSc		PhD	
	ENR.	ALLOWANCE	ENR.	ALLOWANCE
FAB	0	0.00	0	0.00
FKA	6	144,694.00	3	5,826.00
FKE	4	71,594.00	4	10,888.00
FKM	1	197,969.31	0	0.00
FKKSA	14	22,200.00	4	7,750.00
FKSG	5	26,904.00	0	0.00
FP	0	0.00	0	0.00
FPPSM	1	8,400.00	0	0.00
FS	39	628,233.65	3	6,862.00
FSKSM	4	48,940.50	3	8,076.00
<b>TOTAL</b>	<b>74</b>	<b>1,148,935.46</b>	<b>17</b>	<b>39,402.00</b>



**R & D**  
**COLLABORATION**

## CONTRACT RESEARCH FOR YEAR 2005

PROJECT TITLE	RESEARCHER	CLIENT	COST (RM)
Study on the Role and Effectiveness of Tourism in Urban Poverty Reduction: Case Study of Melaka Historic City	Assoc. Prof. Dr. Amran Hamzah	Kementerian Pelancongan Malaysia	149,400.00
Design of a RSA Crypto Coprocessor for smarted Microchip	Prof Dr. Mohamed Khalil B. Mohd Hani	Malaysia Microelectronics Solutions	24,000.00
Dokumentasi Prosedur Operasi Haji	Assoc. Prof. Mohd Shoki Md Ariff	Lembaga Tabung Haji	50,000.00
Penempatan Semula Kampung (PPSK) Kg. Belimbing Sarawak	Prof Dr. Noor Sharipah Bt Sutan Sidi	Felcra Berhad	79,000.00
Identifikasi dan Pembentukan Standard Efektif dan Efisien untuk Perkhimatan Penyenggaraan Bangunan Lembaga Tabung Haji	Assoc. Prof. Mohd Shoki Md Ariff	Lembaga Tabung Haji	31,400.00
Persijilan ISO9001: 2000: Pengurusan Kewangan di Jabatan Kewangan	Assoc. Prof. Mohd Shoki Md Ariff	Lembaga Tabung Haji	32,000.00
Projek Pembangunan dan Perlaksanaan MS ISO 9001 : 2000	Assoc. Prof. Mohd Shoki Md Ariff	Lembaga Tabung Haji	37,600.00
Persijilan ISO 9001:2000 Perpustakaan Tun Abdul Razak UiTM Shah Alam	Assoc. Prof. Mohd Shoki Md Ariff	Perpustakaan Tun Abdul Razak	39,400.00
Kajian Penilaian Kadaran dengan Menggunakan Sistem Penilaian Automasi (MPBP AVS-GIS) Berintegrasikan GIS	Dr.Hishamuddin b.Mohd Ali	Majlis Perbandaran Batu Pahat	1,700,000.00
Street Light Management System	Prof. Ir Dr. Sheikh Hussain Shaikh Salleh	Iconenergy Sdn Bhd	901,200.00
<b>TOTAL</b>			<b>3,044,000.00</b>



# MANPOWER IN R & D



**R & D MANPOWER BY FACULTY  
8<sup>th</sup> MALAYSIAN PLAN (RMK 8) YEAR 2005**

<b>Faculty</b>	<b>Project Leader</b>	<b>Researcher</b>	<b>Research Officer</b>	<b>Research Assistant</b>	<b>Working Student Scheme</b>	<b>MSc.</b>	<b>PhD.</b>
ATMA	2	4	0	0	0	0	0
FAB	2	0	1	7	1	0	0
FKA	10	20	8	34	31	6	3
FKE	5	6	20	16	16	4	4
FKKSA	7	9	9	16	35	14	4
FKM	10	15	13	15	20	1	0
FKSG	4	6	4	21	25	5	0
FP	1	0	0	1	0	0	0
FPPSM	2	4	2	7	0	1	0
FS	7	10	10	44	41	39	3
FSKSM	6	7	2	13	20	4	3
PPD	3	5	4	1	2	0	0
PPIPS	7	16	0	0	4	0	0
HEP	0	0	1	0	0	0	0
<b>TOTAL</b>	<b>66</b>	<b>102</b>	<b>74</b>	<b>175</b>	<b>195</b>	<b>74</b>	<b>17</b>

