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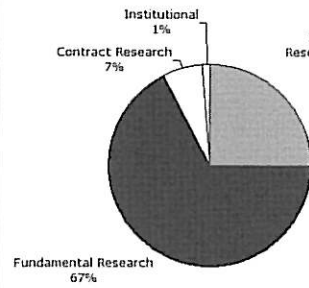
UNIVERSITI TEKNOLOGI MALAYSIA

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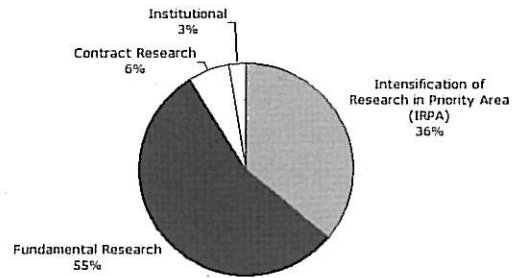
**RESEARCH
PROJECTS
&
GRANTS**

2014

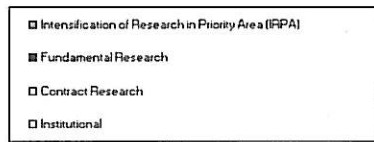
PROJECT DISTRIBUTED



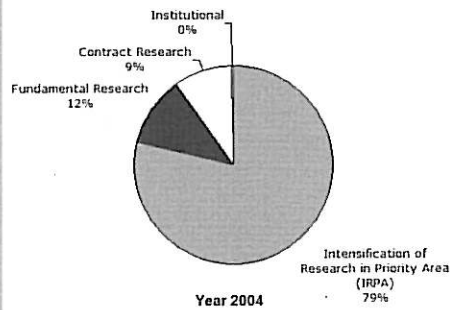
Year 2004



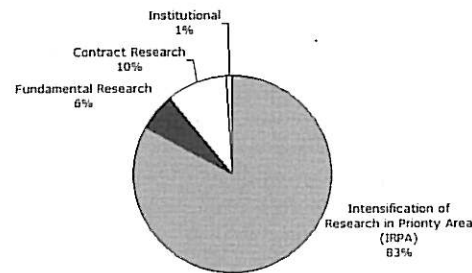
RMK 8 until 31 December 2004



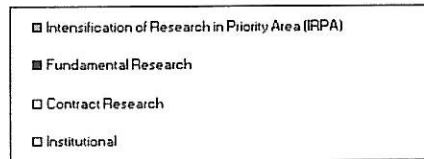
ALLOCATION DISTRIBUTED



Year 2004



RMK 8 until 31 December 2004



8th. Malaysia Plan (RMK 8) ALLOCATION BY FACULTY
Until 31 December 2004

Research & Development

Facts and Figures

No	Faculty	IRPA		FUNDAMENTAL RESEARCH		INSTITUTIONAL RESEARCH UTM		CONTRACT RESEARCH	
		Projects	Allocation (RM)	Projects	Allocation (RM)	Projects	Allocation (RM)	Projects	Allocation (RM)
1	ATMA	1	90,000.00	1	35,000.00	0	0.00	0	0.00
2	FAB	9	1,027,950.00	32	555,820.16	1	25,000.00	8	1,289,634.00
3	FKA	26	5,033,415.00	41	997,388.00	3	78,000.00	7	1,693,822.00
4	FKE	45	17,657,848.00	17	362,250.00	2	480,000.00	4	524,674.00
5	FKKSA	71	30,692,071.00	47	1,059,300.00	1	20,000.00	6	6,935,754.00
6	FKM	39	22,051,230.00	36	862,600.00	4	606,000.00	16	2,657,362.33
7	FKSG	34	8,546,120.00	48	942,920.00	3	53,210.00	4	1,571,165.90
8	FP	0	0.00	43	660,390.00	1	20,000.00	0	0.00
9	FPPSM	11	1,402,876.00	88	1,360,715.73	4	43,750.00	10	398,891.10
10	FS	53	35,361,303.00	66	1,407,330.00	2	35,000.00	3	397,326.00
11	FSKSM	40	6,901,248.00	48	929,700.00	0	0.00	0	0.00
12	PPD	3	620,000.00	22	420,734.64	0	0.00	0	0.00
13	PPIFS	0	0.00	16	256,270.00	0	0.00	0	0.00
14	PSZ	0	0.00	1	19,100.00	0	0.00	0	0.00
15	UNIPEN	0	0.00	0	0.00	2	46,725.89	0	0.00
16	UPSIP	0	0.00	0	0.00	1	27,750.00	0	0.00
TOTAL		312	129,386,061.00	506	9,869,518.53	24	1,435,435.89	58	15,468,629.51

ALLOCATION BY FACULTY
For year 2004

Research & Development

Facts and Figures

No	Faculty	IRPA		FUNDAMENTAL RESEARCH		INSTITUTIONAL RESEARCH UTM		CONTRACT RESEARCH	
		Projects	Allocation (RM)	Projects	Allocation (RM)	Projects	Allocation (RM)	Projects	Allocation (RM)
1	ATMA	1	90,000.00	1	35,000.00	0	0.00	0	0.00
2	FAB	3	406,950.00	3	62,727.00	0	0.00	1	30,454.00
3	FKA	4	700,960.00	17	547,500.00	0	0.00	2	1,042,340.00
4	FKE	8	881,500.00	4	145,000.00	0	0.00	0	0.00
5	FKKSA	8	4,313,271.00	16	475,500.00	1	20,000.00	0	0.00
6	FKM	3	3,910,560.00	12	427,300.00	1	100,000.00	5	1,580,866.64
7	FKSG	4	445,000.00	10	245,500.00	0	0.00	0	0.00
8	FP	0	0.00	14	231,500.00	0	0.00	0	0.00
9	FPPSM	2	368,700.00	15	305,500.00	0	0.00	5	174,300.00
10	FS	13	12,424,521.00	23	666,000.00	0	0.00	0	0.00
11	FSKSM	3	291,000.00	14	345,200.00	0	0.00	0	0.00
12	PPD	1	234,000.00	9	169,300.00	0	0.00	0	0.00
13	PPIFS	0	0.00	2	36,000.00	0	0.00	0	0.00
TOTAL		50	24,066,462.00	140	3,692,027.00	2	120,000.00	13	2,827,960.64

UNIVERSITI TEKNOLOGI MALAYSIA

AWARDS

Facts and Figures

2014

STATISTICS OF OVERALL R & D COMPETITION AWARDS

EVENTS	Gold	Silver	Bronze	Special Awards	TOTAL
International Exhibition of Inventions, New Techniques and Products, Geneva	10	11	6	4	31
Invention and New Products Exposition (INPEX), USA	1	3	1		5
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	2	3	2		7
The Association Hungarian Inventors Genius Prize				2	2
Women Inventor Award, Geneva				1	1
British Invention Show	1			1 (Platinum)	2
International	15	22	10	16	63
EXPO Science and Technology (EXPA S&T)	7	23	23		53
Invention, Innovation, Industrial Design and Technology Exhibition (ITEX)	5	10	13		28
Malaysian Invention and Design Exhibition (MINDEX/INNOTEX)		2	1	1	4
ROBOCON				3	3
Pameran Penyelidikan dan Pembangunan Institusi Pengajian Tinggi Awam (IPTA)				11	11
Petronas Inventors Awards				3	3
Anugerah Saintis Muda Negara				1	1
Anugerah Pereka Cipta Negara				1	1
Korea Invention Academy				1	1
National	12	35	37	21	105

Research & Development

Facts and Figures



UNIVERSITI TEKNOLOGI MALAYSIA

STATISTICS OF R & D COMPETITION AWARDS
Year 2004



EVENTS	Gold	Silver	Bronze	Special Awards	TOTAL
International Exhibition of Inventions, New Techniques and Products, Geneva	3	1	2		6
Invention and New Products Exposition (INPEX), USA	1	1			2
Seoul International Invention Fair (SIIF) Seoul, Korea		3	1		4
International Exhibition Ideas-Invention-New Products (IENA), Germany	1	1	1		3
British Invention Show	1			1 (Platinum)	2
International	6	6	4	1	17
EXPO Science and Technology (EXPA S&T)	1	3	6		10
Invention, Innovation, Industrial Design and Technology Exhibition (ITEX)	1		5	1	7
National	2	3	11	1	17

INTERNATIONAL AWARDS

32nd INTERNATIONAL EXHIBITION OF INVENTION,
NEW TECHNIQUES AND PRODUCTS, GENEVA 2004

31 March - 4 April 2004

NO	PROJECT LEADER	FACULTY	PROJECT TITLE	MEDAL
1	Prof. Dr. Abu Bakar Mohammad	FKE	Thermooptic Photonic Switch	Gold
2	Mr. Lee Ting Hun	CEPP, FKKSA	Blanching Diagnostic Kit For Vegetables	Gold
3	Assoc. Prof. Dr. Zaleha Ismail	FP	Imfrac : An Interactive Multimedia For Diagnostic and Remedial On Fractions	Gold
4	Prof. Dr. Marzuki Khalid	CAIRO, FKE	KENAL KAYU - An Intelligent Wood Recognition System	Silver
5	Assoc. Prof. Dr. Shaharuddin Salleh	FS	ESSR : Single-Row Routing Technique For High-Performance Printed Circuit Board Designs	Bronze
6	Prof. Ir. Dr. Alias Mohd Noor	FKM	New Pump Impeller Design For Car Engine Cooling System	Bronze

THE BRITISH INVENTION SHOW 2004
ALEXANDRA PALACE, LONDON, ENGLAND

21 - 24 OCTOBER 2004

NO	PROJECT LEADER	FACULTY	PROJECT TITLE	MEDAL
1	Harisun Yaakob	CEPP, FKKSA	Natural Flavour Without Colour	Gold
			Environmental Friendly Bio-Pesticide	Platinum



SEOUL INTERNATIONAL INVENTION FAIR 2004, SEOUL KOREA

10 - 14 December 2004

NO	PROJECT LEADER	FACULTY	PROJECT TITLE	MEDAL
1	Prof. Dr. Tharek Abd. Rahman	FKE	Radial Waveguide Slot Antenna	Silver
2	Assoc. Prof. Dr. Rosli Mohd Yunus	FKKSA	Mobile Ultrasonic Solvent Extraction System, MUSE	Silver
3	Assoc. Prof. Mustafa Yusof	FKM	On-Line Cleaning of Heat Exchanger	Silver
4	Dr. Norma Alias	FS	High Performance Temperature Prediction for Multidimensional Manufacturing Product	Bronze

INVENTION & NEW PRODUCTS EXPOSITION (INPEX) 2004
PITTSBURGH, PENNSYLVANIA, USA

12 - 15 May 2004

NO	PROJECT LEADER	FACULTY	PROJECT TITLE	MEDAL
1	Prof. Dr. Tharek Abd. Rahman	FKE	Flat Antenna for Point-to-Point Microwave Link	Gold
2	Assoc. Prof. Ir. Dr. Mahmood Md. Tahir	FKM	Economic Aspects of Partial Strength Connection Using Trapezoidal Web Profiled (TWP) Section	Silver



INTERNATIONAL EXHIBITION-IDEAS-INVENTION-NEW PRODUCTS
NUREMBERG EXHIBITION CENTRE, HALL 12 .NUREMBERG GERMANY

28 - 31 October 2004

NO	PROJECT LEADER	FACULTY	PRODUCT TITLE	MEDAL
1	Prof. Dr. Hamdani Saifi	BATC FKKKKSA	High Performance Proton Conducting Membranes for PEM Fuel Cell Application	Gold
2	Prof. Dr. Mohamed Khalil Hj. Mohd Hani	FKE	Public Key Infrastructure (PKI) System-On-A-Chip: A Crypto-Processor Microchip Prototype For Next-Generation Smartcards & IT Security	Silver
3	Assoc. Prof. Dr. Azlan Adnan	FKA	Development of a Digital Triaxial Seismo-Accelerograph System using Single Inertial Mass and Megnetometers	Bronze



NATIONAL AWARDS

INVENTION, INNOVATION, INDUSTRIAL DESIGN & TECHNOLOGY EXHIBITION
(ITEX) 2004, MID VALLEY EXHIBITION CENTRE (MVEC)
MID VALLEY MEGAMALL, KUALA LUMPUR

20 - 22 May 2004

NO	PROJECT LEADER	FACULTY	PROJECT TITLE	MEDAL	AWARD
1	Assoc. Prof. Dr. Muhd Zaimi Abd. Majid	FKA	Automated Low Cost House Demand Forecasting for Urban Area	Gold	Korea Invention Academy
2	Assoc. Prof. Dr. Rio Sumarni Shariffudin	FP	A Constructivist-Contextual Multiple Intelligence Multimedia System for Science Learning	Bronze	-
3	Assoc. Prof. Dr. Widad Othman	FP	E-Engineering Drawing-A Web Based System for Teaching and Learning Engineering Drawing	Bronze	-
4	Assoc. Prof. Dr. Kamarul Baharin Tawi	FKM	Manual CVT Gearbox	Bronze	-
5	Assoc. Prof. Dr. Zaharah Ibrahim	FS	Potential Application of Biofilter for the Treatment to Polluted River Water	Bronze	-
6	Norma Alias	FS	High Performance Temperature Predictions for Multidimensional Manufacturing Components Using Low Cost Supercomputer	Bronze	-

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INDUSTRIAL ART AND TECHNOLOGY EXHIBITION (INATEX) 2004
DEWAN SULTAN ISKANDAR (DSI), UTM

6 - 8 July 2004

Product Category

NO	PROJECT LEADER	FACULTY	PROJECT TITLE	MEDAL
1	Prof. Dr. Mohamed Khalil Hj. Mohd Hani	FKE	Advanced Cryptographic Processor IC Chip Prototype For Next-Generation Smart Cards and Security Devices	Gold
2	Assoc. Prof. Dr. Zainuddin Abd. Manan	FKKSA	Water-Matrix-A Computer Software For Water and Energy Reductions In Industry and Public Buildings	Silver
3	Assoc. Prof. Dr. Azlan Adnan	FKA	Development of a Digital Triaxial Seismo-Accelerograph System Using Inertial Mass and Magnetometers	Bronze

Idea, Concept and Algorithm Category

NO	PROJECT LEADER	FACULTY	PROJECT TITLE	MEDAL
1	Dr. Norma Alias	FS	High Performance Computational Library in Solving Multidimensional Heat Conduction Problems on a Distributed Parallel Computer System	Gold
2	Assoc. Prof. Dr. Siti Mariyam Hj. Shamsuddin	ESKSM	Development of Rough Set Predictor for Stock Market Returns	Silver
3	Norhaida Mohd Suaib	ESKSM	Collision Detection Library for Interactive Virtual Environments	Bronze

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INDUSTRIAL ART AND TECHNOLOGY EXHIBITION (INATEX) 2004
DEWAN SULTAN ISKANDAR (DSI), UTM – cont.

6 – 8 July 2004

Special Jury Awards

NO	PROJECT LEADER	FACULTY	PROJECT TITLE
1	Mohd Fadzil Daud	FKM	Tricycle for Wheelchair User
2	Prof. Dr. Hamdani Saidi	BATC	Development of Competitive PEM Fuel Cell Membranes Using Locally Developed Facilities

NATIONAL ROBOCON COMPETITION 2004
DEWAN SERBAGUNA, SIRIM BERHAD, SHAH ALAM SELANGOR

8 – 9 May 2004

PROJECT LEADER	PROJECT TITLE	AWARDS
Prof. Dr. Shamsudin bin Hj. Amin	ROBOCON 2004 (Reunion of Separated Lovers, Gyeonwoo & Jikyeo)	Winner Best Technology Award

EXPO SCIENCE, TECHNOLOGY AND INNOVATION (EXPO S,T&I) 2004
PUTRA WORLD TRADE CENTRE (PWTC), KUALA LUMPUR
27-29 AUGUST 2004

NO	PROJECT LEADER	FACULTY	PROJECT TITLE	MEDAL
1	Harisun Yaakob	CEPP, FKKSA	Natural Flavour Without Colour	Gold
2	Prof. Dr. Tharek Abd. Rahman	FKE	Small Aperture Radial Waveguide Slot Array Antenna for Indoor Wireless Local Area Network	Silver
3	Assoc. Prof. Dr. Zainuddin Abdul Manan	FKKSA	Water MATRIX- A Computer Software for Water and Energy Reductions in Industry and Public Buildings	Silver
4	Sulaiman Ngadiran	CEPP, FKKSA	Coconut-Based Non Dairy Creamer	Silver
5	Prof. Ir. Dr. Azhar Abdul Aziz	FKM	Improved Single-Cylinder (Gasoline) Air Cooled Step Piston Engine	Bronze
6	Assoc. Prof. Dr. Musa Mailah	FKM	Autonomous Wheeled Mobile Manipulator With Active Force Control	Bronze
7	Mohd Fadzil Daud	FKM	Tricycle for Wheel Chair User	Bronze
8	Roznani Hasham @ Hisam	CEPP, FKKSA	Edible Cosmetic- Lipsticks, Blushers and Eye Shadow	Bronze
9	Noor Azwani Zainol	CEPP, FKKSA	Herbal Nutritional Candy	Bronze
10	Lee Ting Hun	CEPP, FKKSA	New Bird's Extraction Process	Bronze

UNIVERSITI TEKNOLOGI MALAYSIA

INTELLECTUAL PROPERTY

Facts and Figures
2004

OVERALL STATISTICS OF IPR
Until 31 December 2004

No	CATEGORY	TOTAL
1	Patent Filing	34
2	Utility Innovation	3
3	Industrial Design	2
4	Trademark	5
5	Copyright	16
6	Patent Granted	1
Total		61

STATISTICS OF IPR
Year 2004

No	CATEGORY	TOTAL
1	Patent Filing	10
2	Utility Innovation	2
3	Industrial Design	-
4	Trademark	4
5	Copyright	6
6	Patent Granted	-
Total		22



RECORDS OF INTELLECTUAL PROPERTY

TITLE	INVENTOR	NO. FILING/PATENT
Synthesis of Nanostructured Zeolite and Mesoporous Materials from Rice Husk	Prof. Dr. Halimatun Hamdan <i>Faculty of Science</i>	PI 2004 0506
Method for Obtaining Base Oil from Spent Lubricant-Pilot Scale Design	Assoc. Prof. Dr. Rosli Mohd Yusus <i>Faculty of Chemical Engineering & Natural Resources</i>	PI 2004 0835
Testing Blanching Kit	Lee Ting Hun <i>CEPP</i>	PI 2004 1745
Oxygen Enrichment System	Prof. Dr. Ahmad Fauzi Ismail <i>Faculty of Chemical Engineering and Natural Resources</i>	PI 2004 1881
Improvement in Apparatus and Methods for Erosion Control	Prof. Dr. Noraieni Hj. Mokhtar <i>Faculty of Civil Engineering</i>	PI 2004 1990
Dual Acting Continuously Variable Transmission System	Dr. Kamarul Bahrin Tawi <i>Faculty of Mechanical Engineering</i>	PI 2004 2705
Surface Micromachined Fiber Alignment Microstructure with High Controllability	Prof. Dr. Abu Bakar Mohammad <i>Faculty of Electrical Engineering</i>	PI 2004 4216
Surface Micromachined Fiber Alignment Microstructure	Prof. Dr. Abu Bakar Mohammad <i>Faculty of Electrical Engineering</i>	PI 2004 4215
An Integrated Reactor-Fermenter-Permeator for Natural Gas Conversion	Assoc. Prof. Dr. Nur Aishah Saidina Amin <i>Faculty of Chemical & Natural Resources</i>	PI 2004 3759
Method of Reducing Energy Consumption in a Process Plant	Assoc. Prof. Dr. Zaimulilin Abul Manan <i>Faculty of Chemical & Natural Resources</i>	PI 2004 4908
Prefabricated Timber Raft (Improvements to a Raft and a Method of Erecting)	Assoc. Prof. Ismail Said <i>Faculty of Built Environment</i>	UI 2004 3017 (Utility Innovation)
Timber Blanching Bar (A Bench)	Assoc. Prof. Ismail Said <i>Faculty of Built Engineering</i>	UI 2004 3018 (Utility Innovation)
UR SAND (Class 19)	Assoc. Prof. Dr. Fadhadli Hj. Zakaria <i>Faculty of Civil Engineering</i>	2004-02732 (Trademark)
UR PLASCRETE (Class 19)	Assoc. Prof. Dr. Fadhadli Hj. Zakaria <i>Faculty of Civil Engineering</i>	2004-02734 (Trademark)



RECORDS OF INTELLECTUAL PROPERTY (cont.)

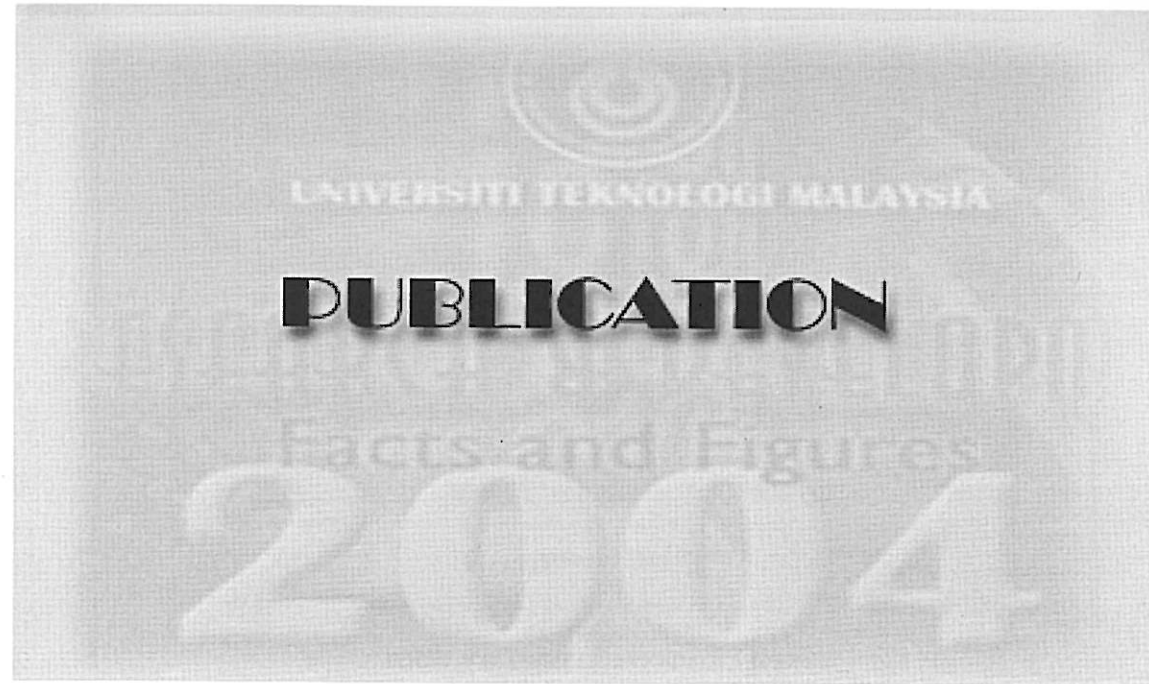
Research & Development

Facts and Figures

TITLE	INVENTOR	NO. FILING/PATENT
UR CHEM (Class 1)	Assoc. Prof. Dr. Fadhlidli Hj. Zakaria <i>Faculty of Civil Engineering</i>	2004-02735 (Trademark)
UR GROUT (Class 19)	Assoc. Prof. Dr. Fadhlidli Hj. Zakaria <i>Faculty of Civil Engineering</i>	2004-02733 (Trademark)
E-Engineering Drawing - A Web-Based System Teaching and Learning Engineering Drawing	Assoc. Prof. Dr. Widad Othman <i>Faculty of Education</i>	Copyright Software (2004)
Multiple Intelligences Multimedia Courseware (MIMCO)	Assoc. Prof. Dr. Rio Sumarni Sharifuldin <i>Faculty of Education</i>	Copyright Software (2004)
IMfract Integrative Multimedia for Diagnostic Remedial on Fractions	Assoc. Prof. Dr. Zaleha Ismail <i>Faculty of Education</i>	Copyright Software (2004)
Design Guidelines & Recommendation for the Development of Children Restorative Garden in Malaysia Hospital	Assoc. Prof. Ismail Said <i>Faculty of Built Environment</i>	Copyright Software (2004)
Mathematics KBSR Year 2: Based in the EIF Techniques	Assoc. Prof. Dr. Ab. Rahman Ahmad <i>Faculty of Computer Science and Information System</i>	Copyright Software (2004)
Automated Low Cost House Demand Forecasting for Urban Area	Assoc. Prof. Dr. Mohd. Zaimi Abul. Majid <i>CTMC, Faculty of Civil Engineering</i>	Copyright Software (2004)



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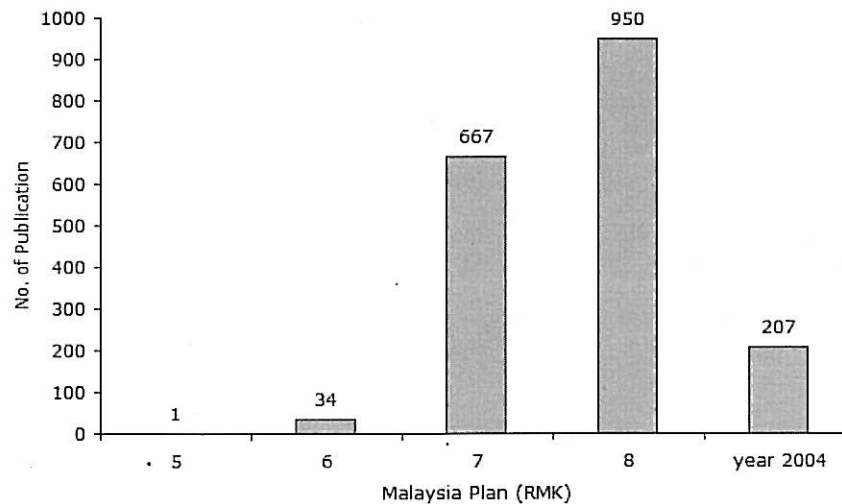


LOCAL & INTERNATIONAL PUBLICATION
YEAR 2004

NO	FACULTY	TOTAL
1	ATMA	2
2	FAB	6
3	FKA	27
4	FKE	12
5	FKKSA	27
6	FKM	20
7	FKSG	14
8	FP	14
9	FPPSM	22
10	FS	34
11	FSKSM	17
12	PPD	10
13	PPIPS	2
TOTAL		207



LOCAL & INTERNATIONAL PUBLICATION BY MALAYSIA PLAN (RMK)



* RMK 8, until 31 December 2004





UNIVERSITI TEKNOLOGI MALAYSIA

POSTGRADUATE RESEARCH GRANT FUNDING

POST GRADUATE BY FACULTY, 8th Malaysian Plan (RMK 8)

Until 31 December 2004

No	Faculty	MSc		PhD	
		ENR.	ALLOWANCE	ENR.	ALLOWANCE
1	FAB	1	27,000.00	0	0.00
2	FKA	8	190,950.00	7	176,880.00
3	FKE	28	599,994.89	8	309,712.00
4	FKM	26	531,865.60	2	46,200.00
5	FKKSA	23	287,325.00	4	130,224.00
6	FKSG	22	364,734.00	3	58,400.00
7	FP	0	0.00	0	0.00
8	FPPSM	6	126,480.00	1	64,800.00
9	FS	31	512,839.94	7	174,558.00
10	FSKSM	29	447,074.34	2	65,556.00
TOTAL		174	3,088,263.77	34	1,026,330.00

UNIVERSITI TEKNOLOGI MALAYSIA

R & D COLLABORATION

Facts and Figures
2004

CONTRACT RESEARCH

PROJECT TITLE	RESEARCHER	COMPANY	TOTAL FUNDING (RM)
Eurasian Network for Product Lifecycle Support and Training (EAPSTRA)	Dr. Adnan Hassan	European Commission	1,302,316.64
QS Industry Profile	Dr. Fadhlin Abdullah	Lembaga Jurukur Bahan Malaysia	30,454.00
Study Comprehensive Fure Suppresion System	En. Istas Fahrurrazi Nusyirwan	Parker Hannifin (M'sia) Sdn. Bhd.	150,000.00
Machining Research on Timet Alloys	Prof. Dr. V.C. Venkatesh	TIMET, US	7,550.00
Kajian Penyelidikan terhadap Pembangunan dan Keperluan Pemandu Pelancong dalam Industri Pelancongan di Malaysia	Assoc. Prof. Dr. Zainab Khalifah	Kem. Kebudayaan, Kesenian & Pelancongan Malaysia	60,000.00
Development of Hydrodynamic and Water Quality Models for Melaka River	Dr. Noor Baharim bin Hathim	Jurutera Perunding Zaaba Sdn. Bhd.	45,000.00
Low CTE Substrate to Improve Warpage and Solder Joint Reliability	Assoc. Prof. Dr. Mohd Nasir Tamin	INTEL Technology Sdn. Bhd.	91,000.00
Merekabentuk Sistem Pengurusan Kualiti untuk Pendaftaran dan Pengendalian Tabung Haji di Ibu Pejabat Tabung Haji	Assoc. Prof. Mohd Shoki Md Ariff	Lembaga Tabung Haji Malaysia	32,000.00
Penambalbaikan Interaksi Proses Bines untuk Perkhidmatan Deposit dan Pengeluaran Tabung Haji	En. Shoki Md Ariff	Lembaga Tabung Haji Malaysia	32,000.00

CONTRACT RESEARCH (cont.)

PROJECT TITLE	RESEARCHER	COMPANY	TOTAL FUNDING (RM)
Penambahbaikan Perkhidmatan Perpustakaan Awam Negeri Johor Menggunakan Model System Pengurusan Kualiti Berasaskan Proses	En. Shoki Md Ariff	Perpustakaan Awam Negeri Johor	25,900.00
Innovative Decision Making for Sustainable Management of Water in Developing Countries (Dim-Sum)	Prof. Dr. Mohd Zaini Ujang	European Commission	997,340.00
An Analysis on Business Process, Core Services and Outsource Activities of Haji Operations in Malaysia and Saudi Arabia for Developing an Effective Quality Management System	En. Shoki Md Ariff	Lembaga Tabung Haji Malaysia	24,400.00
Study of Intermetallic Compounds Formation Between Lead-free Solders and Different Surfaces Finishes	Assoc. Prof. Dr. Ali Outdjini	INTEL Technology Sdn. Bhd.	30,000.00



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MANPOWER IN R & D

Facts and Figures

2004

R & D MANPOWER BY FACULTY

8th Malaysian Plan (RMK 8) until 31 December 2003

No	Faculty	Project Leader	Researcher	Research Officer	Research Assistant	Working Student Scheme
1	FAB	30	54	5	35	37
2	FKA	66	98	33	67	102
3	FKE	45	90	63	54	94
4	FKKKSA	74	127	71	122	140
5	FKM	60	106	54	60	96
6	FKSG	53	89	10	92	146
7	FP	31	48	1	4	12
8	FPPSM	71	143	5	65	37
9	FS	50	133	13	149	120
10	FSKSM	75	113	24	105	219
11	PPD	19	33	2	6	-
12	PPIPS	30	38	-	7	-
TOTAL		604	1072	281	766	1003

