



## RESEARCH

Teaching and learning experience can be enhanced through involvement of lecturers and students in research activities and in the development of fields related to the nation's growth. The Faculty ensures that each research and development project run by the lecturers falls into the niche areas identified by the faculty in order to utilize the strength of its pool of expertise and physical facilities available.

Under the Ninth Malaysia Plan (RMK 9), the Ministry of Science, Technology and Innovation (MOSTI) offered 3 research grants : TechnoFund and ScienceFund. In addition, the Ministry of Higher Education (MoHE) initiated the Fundamental Research Grant Scheme (FRGS).

Throughout 2010, a total of 2 research grants applications were approved by MOSTI amounting to a total of RM 333,000.00 while 14 research grant applications were approved by MOHE amounting to a total of RM 660,280.00. Other research grants approved in 2010 were from IRGS and R&D fund for new PhD staff and foreign academic visitors that amounted to a total of RM 1, 010,901.00. The total research grant approved was RM 2,108,280.00 which enabled the Research Division to organize a number of research activities in 2010. This shows that FKA is actively involved in research activities; in line a Research University.

RESEARCH FUND	2009 (RM)	2010 (RM)
UTM/IRGS	50,000.00	20,000.00
Short Term Grant-IRGS	-	20,000.00
MTSF / Petronas	569,026.00	-
UTM / new staff with PhD	50,000.00	40,000.00
MOSTI	1,129,850.00	333,000.00
UTM / Syarikat Air Johor Holding	51,875.00	-
UTM / Foreign Academic Visitors R & D Fund	240,000.00	60,000.00
MOHE	296,900.00	660,280.00
AEC Project Management Sdn. Bhd.	-	150,000.00
UTM / Short Term Grant-FAVF	-	50,000.00
CREAM	-	775,000.00
<b>TOTAL</b>	<b>2,387,651.00</b>	<b>2,108,280.00</b>

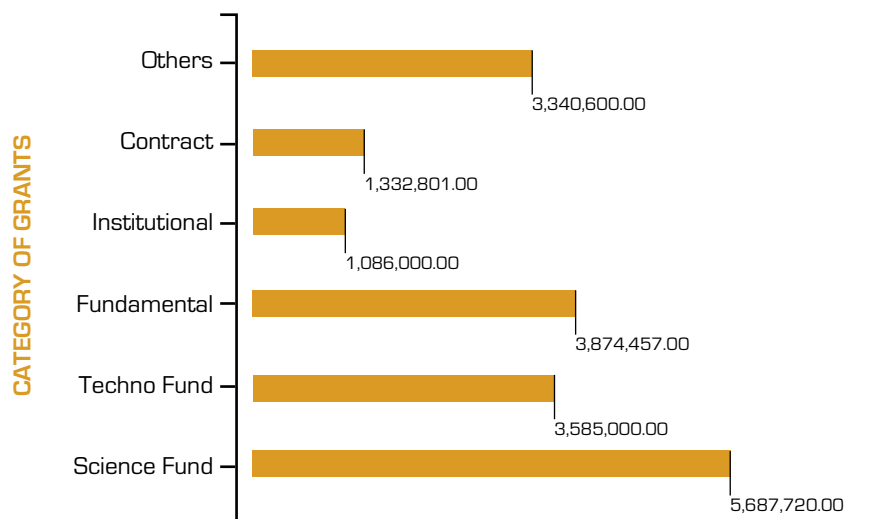
### NUMBER OF TOTAL GRANTS SECURED FOR RMK9

TOTAL AMOUNT OF GRANTS BY CATEGORY (RM)					
SCIENCEFUND	TECHNOFUND	FUNDAMENTAL	INSTITUTIONAL	CONTRACT	OTHERS
5,687,720.00	3,585,000.00	3,874,457.60	1,086,000.00	1,332,801.00	3,340,600.00
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TOTAL PROJECTS BY CATEGORY										
NO	FACULTY	TOTAL PROJECT	AMOUNT APPROVED (RM)	SCIENCE FUND	TECHNO FUND	FUNDAMENTAL	INSTITUTIONAL	CONTRACTS	OTHERS	
1	FKA	169	18,906,578.60	27	1	87	41	7	6	
<b>TOTAL</b>		<b>169</b>	<b>18,906,578.60</b>	<b>27</b>	<b>1</b>	<b>7</b>	<b>41</b>	<b>7</b>	<b>6</b>	

**TOTAL AMOUNT OF GRANTS RESEARCH BY CATEGORY (RM) YEAR 2010**



**LIST OF RESEARCH IN 2010**

NO.	VOTE	TITLE OF RESEARCH	APPROVAL YEAR	RESEARCH ALLIANCE	HEAD OF PROJECT	SPONSOR	BUDGET APPROVED (RM)
1.	79394	Development of an Intelligent Risk Quantification and Assessment Model of Stormwater Detention Pond	2010	WATER	Dr. Supiah Shamsudin	MOSTI	203,000.00
2.	79399	Finite Element Study of Stress Concentration in Hydro-Electric Power House Structures	2010	ICON	Prof. Dr. Jahangir Bakhteri	MOSTI	130,000.00
3.	68745	Development of Quantitative Buildability Index In Building Design	2010	ICON	Assoc. Prof. Ir. Dr. Rosli Mohamad Zin	AEC Project Management Sdn. Bhd.	150,000.00
4.	78556	Structural Performance Evaluation Of Modified Block Pavement: Underside Surface Modification	2010	ICON	Prof. Ir. Dr. Hasanani Md Nor	MOHE	48,800.00



NO.	VOTE	TITLE OF RESEARCH	APPROVAL YEAR	RESEARCH ALLIANCE	HEAD OF PROJECT	SPONSOR	BUDGET APPROVED (RM)
5.	78557	Derivation Of Element Type Properties And Characteristics For Seismic Modelling Of Industrialized Building System (Ibs) Construction Joints	2010	ICON	Prof. Dr. Azlan Adnan	MOHE	48,000.00
6.	78558	Effect Of Blended Lime Zeolite On The Microstructure And Strength Of Stabilized Organic Soils	2010	ICON	Prof. Dr. Khairul Anuar Kassim	MOHE	48,000.00
7.	78559	Future Building Performance Factors In Regional Development Towards Energy Efficient Travel Plan	2010	ICON	Prof. Dr. Muhd Zaimi Abd Majid	MOHE	43,200.00
8.	78579	Development New Impervious Concrete Material For Floating House In Flood Plain Area	2010	ICON	Assoc. Prof. Dr. Mohamad Ibrahim Mohamad	MOHE	44,000.00
9.	78581	Study On The Influence Of Soil Micro-Structure And Engineering Properties Towards Time-Variant Corrosion Dynamic	2010	ICON	Dr. Norhazilan Md. Noor	MOHE	40,000.00
10.	78582	Initial Assessment Of Vegetative Induced Moisture Migration And Effects On Land Deformations	2010	ICON	Dr. Nazri Ali	MOHE	48,000.00
11.	78613	An Experimental And Numerical Modeling Study On Biomass Dynamic In Aerobic Sludge Granulation	2010	WATER	Dr. Aznah Nor Anuar	MOHE	52,000.00
12.	78618	3 Dimensional Effect Of Tunnel Excavation Beneath Existing Structures	2010	ICON	Dr. Hisham Mohamed	MOHE	44,000.00



NO.	VOTE	TITLE OF RESEARCH	APPROVAL YEAR	RESEARCH ALLIANCE	HEAD OF PROJECT	SPONSOR	BUDGET APPROVED (RM)
13.	-	Development Of Indicators To Assess Urban Sustainability In Malaysia	2010	WATER	Mdm. Juhaizah Talib @ Harun	MOHE	44,000.00
14.	78663	A Study Of Wind And River Pulses Influence On The Estuarine Turbidity Maximum	2010	WATER	Dr. Noor Baharim Hashim	MOHE	60,000.00
15.	77541	Effect of Contamination on the Engineering Behavior of Soils in the Malaysia Peninsula	2010	ICON	Dr. Rajeev Kumar Prasannan Pillai	UTM/ Foreign Academic Visitors R&D Fund	30,000.00
16.	77542	Macrobenthos as a Potential Bioindicator for Tropical Rivers	2010	WATER	Dr. Salmiati	UTM/ Foreign Academic Visitors R&D Fund	30,000.00
17.	-	Structural Damage Detection Using Vibration Data	2010	ICON	Prof Dr. Azlan Ab. Rahman/Goh Lyn Dee	UTM/IRGS	20,000.00
18.	75237	An Automated Decision Support System for Determining Optimum Rain Gauge Network	2010	WATER	Prof. Dr. Zulkifli bin Yusop	Without allocation	0.00
19.	-	Development of Construction Quality Cost Matrix	2010	ICON	Assoc. Prof. Ir. Dr. Rosli Mohamad Zin	Without allocation	0.00
20.	78939	Strength Performance and Durability of Palm Oil Fuel Ash Geopolymer Concrete	2010	ICON	Prof. Ir. Dr. Mohd. Warid bin Hussin	Short Term Grant-IRGS	20,000.00
21.	77550	Performance of Aqua-Advanced-FRP for Retrofitting of Underwater Concrete Structural Members	2010	WATER	Dr. Abdul Chalid	UTM/Short Term Grant-FAVF	20,000.00
22.	77966	Parametric Study if Cruciform Column Sections in Multi-Storey Un-braced Steel Frame Design	2010	ICON	Dr. Shek Poi Ngian	UTM/New Staff With PHD	20,000.00



NO.	VOTE	TITLE OF RESEARCH	APPROVAL YEAR	RESEARCH ALLIANCE	HEAD OF PROJECT	SPONSOR	BUDGET APPROVED (RM)
23.	77967	Numerical Study on Advanced Joints for Light Steel Flaming	2010	ICON	Dr. Tan Cher Siang	UTM/New Staff With PHD	20,000.00
24.	73750	The Application of Base Isolators to Bridges Including the Performance Study of Existing JKR Bridge Bearings under Earthquake Loading	2010	ICON	Prof. Dr. Azlan Adnan	CREAM	775,000.00
25.	77552	Screening of Low-Cost Adsorbents for Synthetic Dye Removal	2010	WATER	Dr. Tony Hadibarata	UTM/Short Term Grant-FAVF	30,000.00
26.	78668	Multi-Site Disaggregation Of Daily Rainfall Into Hourly Rainfall	2010	WATER	Prof. Dr. Zulkifli bin Yusop	MOHE	56,000.00
27.	78683	The Use Of Drillability In The Measurement Of Strength Of Hardened Concrete	2010	ICON	Assoc. Prof. Ir Dr. Mohd. Hanim Osman	MOHE	43,000.00
28.	78684	Markov Chain Modelling Of Pitting Corrosion In Multi-Location Based Pipelines	2010	ICON	Dr. Norhazilan bin Md. Noor	MOHE	41,280.00

