

Research, Development & Innovation (RDI) continues to be a thrust to the forefront by UniMAP. In an effort to be competitive and recognized globally, UniMAP realizes the importance of RDI, which is an expensive activity and must be complemented by external fund sources. The following tables list the amount garnered by UniMAP per year.

Research Grants Received To Date (July 2009)

SOURCES OF RESEARCH GRANTS	2006 (RM)	2007 (RM)	2008 (RM)	JULY 2009 (RM)
FUNDAMENTAL RESEARCH GRANT SCHEME – Ministry of Higher Education Malaysia.	1,712,000.00	4,148,226.00	1,170,100.00	-
SCIENCEFUND – Ministry of Science, Technology & Innovation	1,405,500.00	5,249,912.00	1,655,390.00	345,986.00
SHORT TERM GRANT – UniMAP	606,020.00	30,000.00	514,482.00	293,800.00
FELDA – Government Agency	209,000.00	-	-	-
Astronotic Sdn. Bhd. – Corporate Sector	62,500.00	-	-	-
Other Ministry of Higher Education Malaysia	-	-	350,000.00	350,000.00
Permodalan Nasional Berhad (GLC)	-	-	59,980.00	-
Ministry of Agriculture Research Grant	-	-	-	208,900.00
Others	-	-	265,000.00	-
TOTAL	3,995,020.10	9,428,138.00	4,014,952.00	1,198,686.00

Articles And Conference Papers Indexed By SCOPUS

An important measure of research in universities is publication output. How does one measure the quality of research and related publications? In answering this problem, the present scientific world has a self-regulated system of peer reviewing, impact factors and citation indices. The first, peer reviewing often uses researchers around the world to proof read a particular manuscript and cross-check against known theories and current advances. Impact factor relates to the quality of the journal. The higher its value, the more forefront is the research quality, as well as more prestigious.

The final quality check comes in the form of how seminal is the work published. If it is fundamental for technology advancement, then, many other researchers will cite it, hence, increasing its worth, measured as citation index. The

impact factor can be measured in many ways but the most popular is that by ISI Thomson. Alternatively, Scopus uses all these values and lists them in a searchable archive on its website: www.scopus.com.

Based along this line of well established quality check-and-balance system built into the scientific community, UniMAP has also begun to accumulate quality publications. In 2008 a total of 115 articles and conference papers were published. This is a 42% improvement compared to 2007. It must be mentioned that this is by far the highest from all former technical-universities. The nearest from another is 57% lower! This bodes well for UniMAP's strategies and planning. The yearly increase in publications is indicative of a successful university in the making. This a good sign for UniMAP's R&D programmes.

Research Products Registered For Patent Drafting 2009

RESEARCHERS	TITLE	INTELLECTUAL PROPERTY NUMBER
Brigadier General Dato' Prof. Dr. Kamarudin Hussin Prof. Dr. Shamsul Baharin Jamaludin, Assoc. Prof. Che Mohd Ruzaidi Ghazali Dr. Khairul Nizar Ismail, Mohd Sobri Idris, Mohd Nazry Salleh.	KUKUM Artificial Marble	Filed (PI 20091253)
Ragunathan A/L Santiagoo Dr. Ir. Salman Hissiensyah, , Azlinda Abdul Ghani, Assoc. Prof Che Mohd Ruzaidi Ghazali, Roshasmawi Abdul Wahab.	Recyclable Construction Materials	Filed (PI 20090778)
Prof. Dr. Uda Hashim Mohammad Nuzaihan Md Nor, Nur Hamidah Abdul Halim.	A Method Of Producing Nanowires And A Product Derives Thereof	Filed (PI 20091646)
Suhardy Daud Prof. Dr. Shamsul Baharin Jamaludin, Assoc. Prof. Che Mohd Ruzaidi Ghazali Mohd Nazry Salleh, Farizul Hafiz Kassim, Saiful Azhar Saad Tengku Nadzlan Tengku Ibrahim.	A Board And Its Production Method	Filed (PI 20091352)
Mohd Ichwan Nasution Prof. Dr. Shamsul Baharin Jamaludin, Assoc. Prof. Che Mohd Ruzaidi Ghazali Faizul Che Pa, Che Idrus Omar.	A Cast Product And Its Method Of Production	Filed (PI 20090633)
Soh Ping Jack Arzemi Abdullah Al- Hadi, Mohd Ezanuddin Abdul Aziz Mohamad Ezral Baharudin, Assoc. Prof. Dr. R.Badlishah Ahmad.	A Dielectric Loaded Helical Antenna	Filed (PI 20091543)
Azremi Abdullah Al- Hadi Soh Ping Jack, Assoc. Prof. Dr. R. Badlishah Ahmad, Suhaizal Abu Hassan Mohamad Ezral Baharudin, C.S. Por, Saidatul Norylyana Azemi Nurul Husna Mohd Rais.	Compact Planar Highly Efficient Antenna For Wlan Applications	Filed (PI 20091675)