

Optimizing Innovation for Global Commercialization



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design



Optimizing Innovation for Global Commercialization



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Division of Research,
Industrial Linkages & Alumni (PJI&A)
Universiti Teknologi MARA Melaka

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Optimizing Innovation for Global Commercialization

Research, Invention, Innovation Design

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background of RESEARCH, INDUSTRIAL LINKAGES & ALUMNI

Objectives

- To promote world-class research.
- To administer, coordinate and provide service for research development, consultation and research publication.
- To provide assistance in exploring new subjects and identify niche area of interest.
- To disseminate information and provide ample training in research, consultation and publication of research.
- To ensure innovation, quality research, consultation and publication are maintained.
- To assist in research publication for high impact journals.

Vision

To become the leading administrative centre for research, development, consultation and world-class research publication.

Mision

To enrich the academia, creative ability and innovation through quality service.

Division of Research, Industrial Linkages and Alumni or known as PJI&A started as the Research Management Unit (RMU) or IRDC and was formerly known as Planning, Research and Development Centre which was established in April 1980. However in September 1987, IRDC was restructured with its heightened importance in research and consultation in UiTM and was divided into two units, Research and Consultancy Centre (RACC) and Planning and Evaluation Unit. This centre was then renamed to Research and Consultancy Bureau in 1994 and went through another name change to become Institute of Research, Development and Commercialisation (IRDC) on 15 July 2003.

With the mooted of the post of Deputy Vice Chancellor in March 2008 to take over the intellectual property and commercialisation portfolio, IRDC was given the responsibility to maximise innovation and increase the number of research which will later be published in high impact journals. Ensuing this, on 31 July 2008 IRDC was changed to Research Management Institute (RMI) to synchronise with UiTM's aspiration to become a Research University that will develop innovation activities and new research. It was only in 2011, that RMI became the Research, Industrial Linkages and Alumni Division (PJI&A), headed by its Deputy Rector, Associate Professor Dr. Roaimah Omar. Under her tutelage, Invention, Innovation and Design (IID) was born in 2009.

The different divisions or units in PJI&A are responsible to manage, monitor and conduct research in science and technology, management and social sciences, consultation, financial assistance for consultation, innovation, publication and Information for Research and Consultancy (INFORAC). PJI&A also conducts seminars, workshops and roadshows to encourage, motivate and train the academic and non-academic staffs in research and consultation, securing research grants and projects, to manage good financing and publish research in a responsible and ethical manner.

RIID2013 OBJECTIVES

General Objective

To display research, invention, and design from various institutions (IPTA/IPTS) that can be commercialised for global benefit

To culturalise research and innovation through the sharing of expertise and commercialised, creative and innovative ideas

To instill interest and encouragement to the public towards research, invention and innovation that poses as a medium for the nation's development.

Specific Objective

To identify and promote new and inventive discoveries that are commercialised, creative, and innovative from various institutions (IPTA/IPTS) all over Malaysia.

To select discoveries and new invention to be contested in the national and international level.

To uphold the reputation and image of UiTM as a well-known pioneer in innovation and invention in the national and international level.

CHRONOLOGY OF RIID

RIID Showcase

7 August 2009,
Dewan Kuliah 2,
UiTM Melaka.



1st IID LET'S IID

13 August 2009,
Dewan Bendahara,
UiTM Melaka.



2nd IID Enculturation Of Research & Innovation

5 October 2010,
Dewan Bendahara,
UiTM Melaka.



RIID 2013 Optimizing Innovation For Global Commercialization

16 - 17 December 2013,
Dewan Taming Sari,
UiTM Melaka.



RIID 2012 Innovation for Sustainable Growth

7 - 8 November 2012,
Dewan Taming Sari,
UiTM Melaka.



DERIA 2011 Sound, Image & Object

21 - 22 July 2011,
Mini Stadium Bistari,
Ayer Keroh, Melaka.

foreword message by

CHIEF MINISTER MELAKA



YAB Datuk Seri Ir. Haji Idris Haron

*Chief Minister Melaka
December 2013*

***Assalamualaikum wbk and
best greetings Salam 1Malaysia,***

And foremost, I would like to congratulate Research, Industrial
Parks and Alumni Centre (PIAC), Universiti Teknologi MARA
(UiTM) Melaka for yet another successful organisation of this
rich, Invention, Innovation and Design Exhibition 2013 (RIID

In the era of globalisation, the Malaysian government is stepping
up its efforts in developing the country and its people, be
ing by launching a holistic socioeconomic development programme.
Our Prime Minister Datuk Seri Mohd Najib Tun Abdul Razak
has introduced a massive transformation agenda in implementing the
programme with its approach and philosophy. The Prime Minister has
also outlined five-key strategic thrusts under the 10th Malaysia
Plan (10MP) to enable Malaysia to become a high-income and
developed nation by 2020.

Therefore, the National Key Results Area (NKRA) and the Key
Performance Index (KPI) were introduced towards achieving vision
2020. While moving towards achieving a developed country status,
Malaysia needs to draw up a new approach which emphasises on
quality human capital, innovation and creativity. The government in
addition has to operate as competitive corporation.

I would like to congratulate UiTM Melaka for supporting the
country's vision by hosting RIID2013 competition and exhibition.
With its theme Innovation for Sustainable Growth, this event is a
positive initiative to encourage professionals and academicians
alike to enhance their knowledge and practical skills and these are
parts of their contribution for the nation's building.

When research activities are conducted continuously, it is expected
that more innovations will be generated. UiTM Melaka's initiative
is highly commendable as it manages to attract 340 products to
be displayed and competed at this event. It is hoped that this event
will serve as a catalyst in enhancing the roles of professionals in
various industries.

***Assalamualaikum wbkt, Salam 1Malaysia
and Salam UiTM Sentiasa Di Hatiku.,***

I would like to welcome our honourable guests, professionals, and academicians from schools, colleges and universities to the 5th Research, Invention, Innovation and Design 2013 (RIID 2013) competition proudly organised by the Research, Industry Linkage and Alumni Division (PJI A) Centre Universiti Teknologi MARA (UiTM) Melaka.

In line with the government's aspiration to nurture and cultivate innovation, UiTM Melaka has taken the initiative to organise RIID 2013 Melaka Innovation Festival. One of the main objectives of the event is to raise the status of local universities globally. To achieve the status of a Research University (RU), one of the criteria is to emphasise on high impact innovation research which leads to invention of new business models, or innovative processes. This would result in an improved efficiency of the organisation and contributes towards better quality of life.

Since innovation is a vital catalyst to attain the status of developed nation in the year 2020, UiTM Melaka is heading the nation's call to attain aspiration through innovative programmes with staff and students. These creative and innovative abilities could be brought to greater heights through competitions and innovation exhibitions held annually. During this two-day event, a talk on innovation will also be held. Innovation is one of the key factors that could push the economy forward. In line with the strategic thrusts, the RIID 2013 competition will serve as a platform for researchers to expand their researches into innovations while becoming a venue for them to showcase their products, prototypes and new ideas.

This competition also serves as a platform for students, lecturer's administrative officers and the public to demonstrate their products or prototypes as well as sharing new ideas for commercial value. Therefore, PJI A decided the Optimizing Innovation for Global Commercialization as our theme for this year 5th Research, Invention, Innovation and Design 2013.

I am proud to announce that the number of participants in this event has increased to more than 300 participants compared to the previous year event. I would like to extend my sincere thanks and gratitude to the committee members who have persistently given their full commitment to this event.

I wish all the participants all the best in the competition.

foreword by
RECTOR



Associate Professor Dr. Adnan bin Hashim

*Rector
Universiti Teknologi MARA Melaka
December 2013*



Kajian Pelan Potensi Kawasan Pembangunan Berorientasikan Transit (Tod) Di Negeri Selangor

Prof. Madya Zakaria Ahmad; Dr. Siti Zaharah Ishak ; Dr Intan Rohani Endut ; Arina Rahmat

Malaysia Institute of Transport (MITRANS) Universiti Teknologi MARA Shah Alam

Tujuan kajian ini dijalankan adalah untuk menyediakan satu pelan yang komprehensif dengan mengenalpasti potensi pusat - pusat TOD dan mencadangkan ciri - ciri pembangunan yang dapat menyokong pertumbuhan pusat - pusat TOD mengikut hierarki. Untuk memastikan tujuan kajian ini tercapai, beberapa objektif telah digariskan seperti mengenalpasti dan membuat perbandingan best practice pelaksanaan TOD di negara luar dan kesesuaian per laksanaannya di Negeri Selangor, mengenalpasti dan menganalisa kriteria/indikator pemilihan kawasan berpotensi TOD di Negeri Selangor, mengenalpasti dan mencadangkan pusat - pusat berpotensi TOD mengikut hierarki secara terperinci dan mengenalpasti tahap dan ciri - ciri pembangunan yang perlu disediakan di setiap pusat TOD yang dicadangkan . Kajian ini merangkumi keseluruhan Negeri Selangor dan merupakan kajian komprehensif mengenai pelan potensi kawasan TOD di Negeri Selangor. Negeri Selangor merangkumi kawasan seluas 810,400 hektar dan mempunyai Sembilan daerah . Pemilihan ini akan berlandaskan ciri - ciri dan kesesuaian kawasan yang akan dikenalpasti dan pengalaman dalam pelaksanaan best practise TOD di negara - negara maju melalui proses benchmarking .

RateSkill: Mining Data from Log File to Classify Children's ICT Skill

Mohd Talmizie Amron; Norizan Mohamad; Azlin Dahlan; Zairi Ismael Rizman

Universiti Teknologi MARA Terengganu; Universiti Teknologi MARA Melaka

In Terengganu, the Year 6 school children have been given e-books to help them keeping pace with the technology. Thus, the ability to assess these children's competency skill in ICT is very important to determine their progress in becoming fully computer competent. Learning the children's behavior and interaction towards the use of computer enable us to identify the incompetent ones for necessary 'skill upgrade' training. However, learning user behavior can be very time-consuming since the evaluator needs to be present and observe the direct actions performed by each user on a given task. In this situation, the presence of observers may hinder these children from demonstrating their actual skills. We present RateSkill that analyzes and interprets the children's activities in completing a set of given tasks. Their activities are captured and stored into log files which are then read by RateSkill application. The log file analysis allows the characterization of the children's behavior that relates to their actual competency skills. RateSkill is equipped with its ability to classify the children's skill into beginner, intermediate or expert level. The RateSkill has great potential to be commercialised to suit the demands of other domains such as future employers seeking for ICT competent candidates as well as current employers looking for ways to reduce the 'skills gap' among the employees.