











#### **IP COMMUNITY ANNUAL MEETING & SEMINAR 2018**

JAPAN INSTITUTE FOR PROMOTING **INVENTION & INNOVATION (JIPII)** 



## Human Resource Development for IP Expert in Malaysia

Speaker: Mr. Mohd Ismi Aswaly Bin Hanimi 5<sup>th</sup> March 2018 (Monday) **MyIPO Headquarters** Kuala Lumpur, Malaysia







### **ENDORSEMENT**

This work has been presented with extensive discussions in the IP Community KL Meeting 2018. I hereby acknowledge and support on the initiatives stated for a mutual benefit between the Polytechnic and MyIPO, consequently help to improve the Global Innovation Index for the years to come.

Shims

Dato' Shamsiah Binti Kamaruddin Director General Malaysia Intellectual Property Corporation (MyIPO)

Date: 6 March 2018

### **Presentation Outline**

- 1. Overview of MoHE, Polytechnic & Community College
- Malaysia Education Blueprint 2015-2025 (Higher Education): The 10 Shifts
- 3. Research, Innovation & Commercialization Unit (UPIK)
- 4. Previous Initiatives:

   Fundamental Course on Intellectual Property in Malaysia
   & Politeknik Kota Kinabalu 2017
- 5. Publication: ENISHI Magazine No.17, Japan Patent Office
- 6. Challenges & Issues
- 7. Conclusion & Resolution
- 8. References

### Overview

Ministry of Higher Education (MoHE) – established on 28th July 2015 (Tuesday) in accordance to the provisions of the Act relating to higher education.



- MoHE's integral role is to create a higher education ecosystem including public universities, private higher educational institutions, pólytechnics and community colleges. These institutions are the main components in the national education ecosystem and training to generate first-level thinkers, scholars, masters, skilled and semi-skilled human capital in respective roles.
- MoHE has three (3) departments that manages the institutions of higher learning:
  - Department of Higher Education 20 institutions
  - Department of Polytechnic Education 35 institutions
  - Department of Community College Education 92 institutions
- Supported agencies:
  - Malaysian Qualifications Agency (MQA) supervising and coordinating quality assurance as well as accreditation of national higher education.
  - National Higher Education Fund Corporation (PTPTN) coordinating for student's financing of higher education. \* the tagline is used to portray Malaysia's higher education landscape that is progressively improving, while at the same

time, acknowledges continuous efforts that are needed to

propel the nation's higher education to the next level.

# Malaysia Education Blueprint 2015-2025 (Higher Education)

#### The 10 Shifts:

- 1. Holistic, Entrepreneurial and Balanced Graduates.
- 2. Talent Excellence.
- 3. Nation of Lifelong Learners.
- 4. Quality TVET Graduates.
- 5. Financial Sustainability.
- 6. Empowered Governance.
- 7. Innovation Ecosystem.
- 8. Global Prominence.
- 9. Globalized Online Learning.
- 10. Transformed Higher Education Delivery.



# 7<sup>th</sup>: Innovation Ecosystem

Malaysia aspires to make innovation a prime driver of national economic growth.

While research output is improving – Malaysia is ranked 23<sup>rd</sup> for number of publications in 2013, up 11 places from 34<sup>th</sup> in 2009. [4]

Additionally, Malaysia is also ranked 43<sup>rd</sup> out of 110 countries on number of patents [4], however, engagement levels with industry and community are still not as intensive or widespread as desired.

Malaysia needs to move from academia operating in insolation towards a strategic partnership including academia, industry, government and local communities.

As a result, this partnership would incubate new technopreneurs through development and commercialization of ideas holistically and efficiently.

#### **Global Innovation Index 2017 - Global Ranking**



#### What about Malaysia?

in 2016, we ranked 35th out of 128 countries

			2009-2010	2014-2015
Global Innovation	Overall		28/132	33/143
Index (GII)	Strength	Market sophistication	5	17
		Business sophistication	26	29
	Weakness	Institution	42	50
		Knowledge and technology outputs	23	39
		Creative outputs	52	39
Source: World Intellec	tual Property O	rganisation and World Bank		

2 Cyprus 3 UAE 1 Chile Central and S 1 India 2 Costa Rica 3 Mexico 3 Kazakhstan 1 South Africa Income group Global Innovation Index 2017, Asia 128 countries Singapore (7th worldwide) Korea (11th worldwide) Japan (14th) Hong Kong (China) (16th) New Zealand (21st) China (22nd) Australia (23rd) Malaysia (37th)

Vietnam (gains 12 positions this year,

ranking 47th worldwide)

Thailand (51st)

Source: Business Insider Portal

10

Regional

1 Singapore

The Global Innovation Index 2017

2 Sweden 3 Netherlands 4 USA

5 UK

1 USA

1 Switzerland Goba

# Research, Innovation & Commercialization Unit (UPIK)

All polytechnics around Malaysia have founded UPIK to sync KPI-related activities at the Department of Polytechnic Education (DoPE), such as:

- organizing research conferences at national/international level.
- conducting analysis on various programmes offered.
- conducting study on graduate employability.
- promoting innovation via competition.
- establishing innovative and creative group (KIK) among staff.
- searching business potentials for commercialization.
- raising awareness on intellectual property.
- filing of intellectual property.

### **Previous Initiatives**







#### FUNDAMENTAL COURSE ON INTELLECTUAL PROPERTY

(PATENT, TRADEMARK, COPYRIGHT, INDUSTRIAL DESIGN)
COMMUNITY COLLEGES OF THE SELANGOR STATE, MALAYSIA
26 – 28 APRIL 2017



### PROGRAM TENTATIVE FUNDAMENTAL COURSE ON INTELLECTUAL PROPERTY (PATENT, TRADEMARK, INDUSTRIAL DESIGN, COPYRIGHT)

#### Day 1 (26 April 2017)

Time	Agenda	
7.30 AM – 8.00 AM	<ul> <li>Registration &amp; Breakfast</li> </ul>	
8.00 AM – 1.00 PM	<ul> <li>Introduction to Intellectual Property</li> </ul>	
1.00 PM – 2.00 PM	Lunch	
2.00 PM – 5.00 PM	Introduction to Patent & Utility Innovation     International Patent Classification (IPC)     Online Patent Searching     Project Evaluation & Innovation Ideas     Group Work 1	

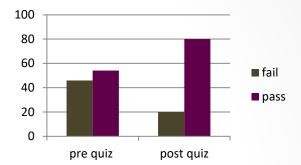
#### Day 2 (27 April 2017)

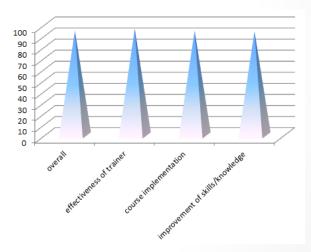
Time	Agenda		
7.30 AM – 8.00 AM	Breakfast		
8.00 AM – 1.00 PM	Patent Drafting Exercise & Sample Draft     Group Work 2		
1.00 PM – 2.00 PM	Lunch		
2.00 PM - 5.00 PM	Group Presentation		

#### Day 3 (28 April 2017)

Time	Agenda	
7.30 AM – 8.00 AM	Breakfast	
8.00 AM – 1.00 PM	Introduction to Intellectual Property (Trademark, Industrial Design & Copyright)	
1.00 PM – 2.00 PM	Lunch	
2.00 PM – 5.00 PM	Specific Protection Scope     (Trademark, Industrial Design &         Copyright)     Legal Approach & Implication     Case Study     Application Procedure (Trademark, Industrial Design & Copyright)     Closing & Certificate Ceremony	

Classification of Gender	Female	38 persons			
	Male	4 persons			
Classification on Rank	Executive Level	29 persons			
	Support Level	13 persons			







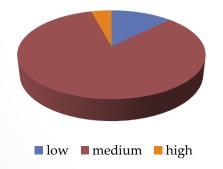




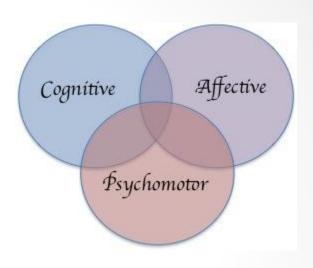


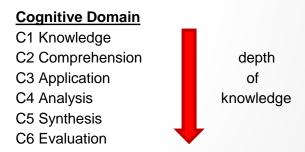
In comparison to pre-quiz & post-quiz, the latter was a bit trickier than the other. It involved questions up to the fourth-level cognitive learning domain [5], including knowledge, comprehension, application and analysis on the case studies found in the questions related to IP types.

Therefore, this course has been proven to have an impact in terms of increased knowledge and understanding of intellectual property among participants.



**Innovator Personality Test\*** 





<sup>\*</sup>an important instrument for assessing participants' true identity in regards to being an innovator.





#### Fundamental Course on Intellectual Property Politeknik Kota Kinabalu 2017









Date Time Venue

Trainer

: 20<sup>th</sup> September 2017 (Wednesday) : 8:00 AM until 1:00 PM

: ULPL Auditorium, Politeknik Kota Kinabalu

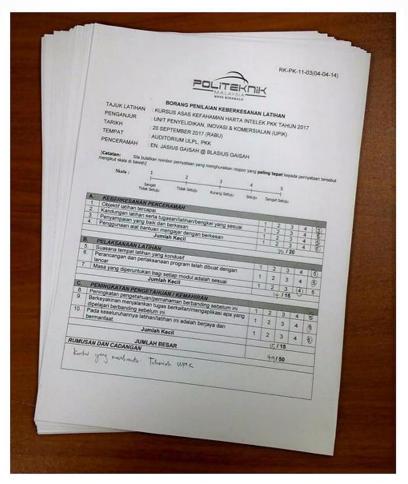
: 1) Mr. Jasius Gaisah @ Blasius Gaisah 2) Mdm. Asmah Binti Khalid

(Officers at MyIPO Sabah State Branch)





#### Course Evaluation Analysis by 65 Participating Lecturers & Students

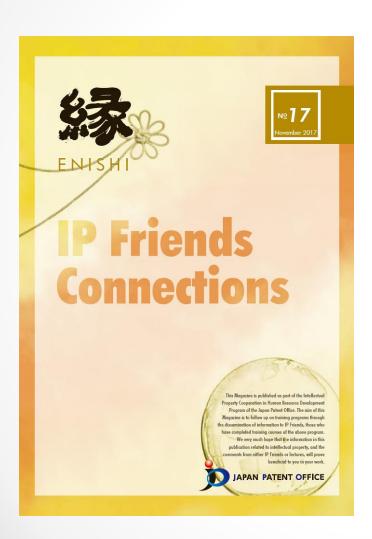


Score for Section A : Effectiveness of Trainer = 88.9% Score for Section B : Course Implementation = 91.3%

Score for Section C: Improvement of Skills/Knowledge = 90.4%

Overall Score = 90.2% (A+ Grade)

### Publication



[The meaning of 緑 (Enishi)]

"Erish" refers to the bond created between people when encountering someone they were destined to meet. We have chosen this term as the title for our publication because we are all members of the Intellectual Property community, and the bonds created between us extend beyond national borders. We hope that you will use this informative publication to deepen the "Enshi" you have created with your IP Friends.

#### **Table of Contents**

- 1. FY 2017 Follow-up Seminars
- 2. FY 2017 Report of IP Trainers Course from coordinator
- 3. Training course experience in Japan
  - 1) "Wareware wa IP Friends (We are IP Friends)"

Ms. Ma. Winelma Meneses Garcia (the Philippines)

- 2) "Sripatum University and the Opportunity for IP Education in Thailand"
  - Ms. Chongnang Wiputhanupong (Thailand)
- "Policy Developer at National Science Technology and Innovation Policy Office, Ministry of Science and Technology, Thailand"

Ms. Panisa Harnpathananun (Thailand)

4. Introduction of FY 2017 Long Term Fellowship Researchers

Mr. C.N. Shashidhara (India)

Mr. Rico Collado (the Philippines)

5. Contributions from FY 2013 Long Term Fellowship Researcher "My Life in Japan as a Long-Term Researcher"

Dr. Moe Moe Thwe (Myanmar)

- 6. Articles from the former trainees
  - "Japan-Colombia, 11 Reasons in Augmented Reality My experience in Tokyo during the "The JPO/IPR Training Course on Substantive Examination of Design".

Mr. Freddy Alexander Saavedra Siabatto (Colombia)

- 2) "Fundamental Course on Intellectual Property in Malaysia"
  - Mr. Mohd Ismi Aswaly Bin Hanimi (Malaysia)
- "Intellectual Property Infringement Situation in Thailand and the Role of the Royal Thai Police"

Dr. Chavalit Chavalitphongpun (Thailand)

4) "The Situation of Well-Known Trademark Protection in Thailand"

Mr. Sutee Angsuchaikit (Thailand)

7. Messages from Committee of Human Resource Development

Mr. Kanji OKAUCHI, KYORITSU CHEMICAL-CHECK Lab., Corp.

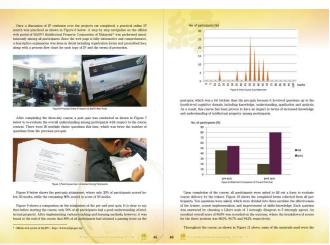
8. Column: "Time"

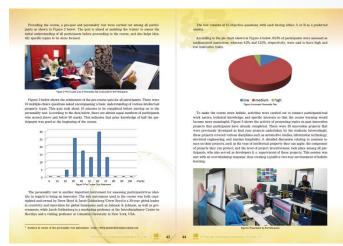
Mr. Takao OGIYA, Director General of APIC

- 9. Selection from TOP 100 Japanese Innovations of "Quartz Wrist Watches"
- 10. Happenings in Japan (Four-Flame Cartoon)
- 11. Editor's Notes

## ENISHI No.17 [6: 41-48]









# Challenges & Issues

"The traditional method of teaching IP was in-person interaction in the classroom....the biggest challenge this posed was the availability of trained IP staff." [8]

- S.E. Lakhan & M. K. Khurana, Global Neuroscience Initiative Foundation

"An entrepreneurial approach would include a greater role for industry and public-private partnerships, drawing on the greater dynamism and innovation in the private sector. This is particularly so in relation to the adoption of digital technologies." [9]

- H.R.H. Sultan Nazřin Muizzuddin Shah, The Ruler of Perak State

"Lack of coordination in research, development, commercialization and innovation initiatives." [11]

- Strategy Paper 21, The 11th Malaysia Plan 2016-2020

"Introduce the subject of IP in the formal education system in primary & secondary schools as well as institutions of higher learning." [12]
- Strategy 5.7, Malaysia National Intellectual Property Policy

#### At polytechnics:

- 1) Awareness of IP knowledge among students and staff is still low.
- 2) Quality of project developed in terms of methodological uniqueness makes patent granting is still hard to be obtained.
- 3) Tendency to lose unprotected ideas exposed in the exhibitions is alarming.

# Student's Final Year Diploma Project – The Syllabuses

RESTRICTED DPM6033 Marketing Plan RESTRICTED DTH6034 Project POLYTECHNICS POLYTECHNICS MINISTRY OF EDUCATION MALAYSIA MINISTRY OF EDUCATION MALAYSIA DEPARTMENT OF COMMERCE DEPARTMENT OF TOURISM AND HOSPITALITY COURSE : DPM6033 MARKETING PLAN COURSE : DTH6034 PROJECT CREDIT CREDIT(S) PRE-REQUISITE(S) : NONE PRE REQUISITE(S) : NONE SYNOPSIS SYNOPSIS MARKETING PLAN is a course that provides students with an opportunity to gain PROJECT is catered for the final semester students of diploma programme. It can be knowledge on how to market a new product or services. Students will be able to integrate all of marketing concepts and strategies acquired. At the end of this implemented individually or in groups. Project coordinator chosen among the lecturers will set the format of the project at the beginning of the semester. The course, students will be able to write and develop an effective marketing plan of project consists of case studies, scientific research, activities or production-related. marketing strategies. Students may be required to make presentations or reports. Each student will be supervised by a lecturer who acts as their project supervisor. COURSE LEARNING OUTCOMES (CLO) COURSE LEARNING OUTCOMES (CLO) Upon completion of this course, students should be able to: 1. construct a marketing proposal and marketing plan document on marketing effort Upon completion of this course, students should be able to: to introduce a new product or service to market. (P4.PLO2) carry out project chosen that can consist of case studies, scientific research services or products align with project procedures and guidelines accurately. 2. construct a basic product prototype and develop an effective marketing plan with (C3, PLO1) a given standard format. (P5,PLO6) 3. practice leadership capabilities, team communication and business decision 2. produce a complete report based on the project conducted that consists of making while completing the marketing plan and presenting the report. results, analysis, discussion and recommendations in a correct format. (C3,PLO1), (A5, PLO9) 3. perform specific project that will benefit to the tourism and hospitality industry confidently. (P4, PLO2) RESTRICTED Version: 090514 1.0 Effective: June2014

Note: Approval Requisition Letter for Public Display to Department of Polytechnic Education Malaysia dated on 14 February 2018 with Reference No. PKK/UPIK/INOVASI/2018 JLD (1)

# Student's Final Year Diploma Project – The Syllabuses

RESTRICTED DCW6124 Wood Based Technology Project POLYTECHNICS MINISTRY OF HIGHER EDUCATION DEPARTMENT OF CIVIL ENGINEERING COURSE : DCW6124 WOOD BASED TECHNOLOGY PROJECT CREDIT(S) PREREQUISITE(S) : DCW 5022 RESEARCH METHODOLOGY SYNOPSIS WOOD BASED TECHNOLOGY PROJECT provides fundamental knowledge in developing, organizing and completing the final project. This course exposed the students on the report writing techniques which covering the introduction, literature review, methodology, project's findings or outcomes' analysis, discussion and conclusion. At the end of the course, a final year project report which implementing the knowledge in wood based technology will be produced. COURSE LEARNING OUTCOMES (CLO) Upon completion of this course, students should be able to: 1. Produce a final year project report which consisting all the fundamental elements according to the required writing format. (C5, PLO1) Propose critical and creative solutions to solve problem regarding final year project related in wood based technology. (A3, PLO4) 3. Demonstrate professionalism and ethics in applying wood based technology knowledge to produce a quality project. (A3, PLO8)

Version: 090514\_1.1 Effective: June 2014

RESTRICTED

RESTRICTED DCQ6253 Quantity Surveying Project POLYTECHNICS MINISTRY OF HIGHER EDUCATION DEPARTMENT OF CIVIL ENGINEERING COURSE : DCQ6253 QUANTITY SURVEYING PROJECT CREDIT(S) . 3 PRE REQUISITE(S) : NONE SYNOPSIS QUANTITY SURVEYING PROJECT course enables students to apply knowledge and technical expertise gained throughout the semester. It requires the students to prepare Bills of Quantities by using computer. This course also offers experience in communication skills, group work, work planning, decision making and also critical and creative thinking. COURSE LEARNING OUTCOMES (CLO) Upon completion of this course, the students should be able to: 1. organize a work programme to prepare bills of quantities accurately. (C5, PLO1) 2. measure the quantities for construction works according to Standard Method of Measurement. (P5, PLO2) 3. demonstrate continuous learning and information management skill while engaging in independent acquisition of new knowledge and skill to develop a 4. demonstrate ability to lead a team to complete assigned project within a stipulated time frame. (A3, PLO9)

RESTRICTED DCC5191 Civil Engineering Project 1 POLYTECHNICS MINISTRY OF HIGHER EDUCATION MALAYSIA DEPARTMENT OF CIVIL ENGINEERING COURSE : DCC5191 CIVIL ENGINEERING PROJECT 1 CREDIT(S) PRE REQUISITE(S) : NONE SYNOPSIS CIVIL ENGINEERING PROJECT 1 covers knowledge and display practice skills in civil engineering. The student also exposed in communication skills, group works, work planning, decision making, recommendation and creativity using available COURSE LEARNING OUTCOMES (CLO) Upon completion of this course, students should be able to: 1. produce preliminary project report based on knowledge and information in civil engineering study according to format given. (C3,PLO1) 2. demonstrate competency in written and oral communication skills in group.(A3,PLO6) 3. adopt values of learning and continuing professional development related to technology advancement in civil engineering based on research topic. (A3,PLO8)

Version:090514 1.0 Effective:December2015 1/10

RESTRICTED

Version: 090514 1.0 Effective: June 2014 1/7

RESTRICTED

# Student's Final Year Diploma Project – The Syllabuses

RESTRICTED DEE5081 Project 1 POLYTECHNICS MINISTRY OF EDUCATION MALAYSIA DEPARTMENT OF ELECTRICAL ENGINEERING **COURSE** : DEE5081 PROJECT 1 CREDIT(S) PREREQUISITE(S) : NONE SYNOPSIS PROJECT 1 provides knowledge regarding the implementation and development methods of a project based on hardware or software or a combination of tools and software. This course provides exposure to the selection and early planning of a project, techniques to develop project, application of computer aided design as well as methods of preparing and presenting project. COURSE LEARNING OUTCOMES (CLO) Upon completion of this course, students should be able to: conduct research in order to make improvements on a chosen project whether the project is on the hardware, the software or hardware-software interface and submit a proposal. (C3, PLO1) plan project for the chosen category in a Gantt Chart form and deliver a presentation with a written final proposal within a given time frame. (C5, carry out project construction procedures (hardware project) or produce flowchart and draft algorithm for system programme (software project) systematically. (P4, PLO5) demonstrate continuous learning and information management skill while engaging in independent acquisition of new knowledge and skill to develop the chosen project. (A3, PLO8) RESTRICTED Version: 090514 1.0 Effective: June 2014

RESTRICTED DJJ5141 Project 1 POLYTECHNICS MINISTRY OF HIGHER EDUCATION DEPARTMENT OF MECHANICAL ENGINEERING COURSE D.I.I5141 PROJECT 1 CREDIT(S) PRE REQUISITE(S) : NONE SYNOPSIS PROJECT 1 provides students with solid foundation on knowledge and skills in preparing project proposal, writing and presentation of proposal. COURSE LEARNING OUTCOMES (CLO) Upon completion of this course, students should be able to 1. organize research or project systematically. (C4, PLO3) 2. demonstrate good communication skill of oral presentation in group. (A3, demonstrate continuous learning and information management skills while engaging in independent acquisition of new knowledge and skill to develop a project. (A3, PLO11) Version: 090514 1.1 Effective: June 2014 RESTRICTED

Note: Approval Requisition Letter for Public Display to Department of Polytechnic Education Malaysia dated on 14 February 2018 with Reference No. PKK/UPIK/INOVASI/2018 JLD (1)

### Conclusion & Resolution

- Undeniably, Malaysia is developing innovation agendas quite rapidly [11]
  in a world of finite resources but infinite passion and creativity.
  Transformation is a constantly changing journey and is vital in the direction of being better tomorrow.
- Industry Visiting Lecturer (PPI) program, for example, can be expanded by engaging Attorneys and IP Examiners working in a private sector [8] which is currently running in Thailand, to further helps in advising certain aspects with respect to the technical and law. Provided that there is a basic chapter about IP in the existing syllabus, this initiative is possible considering the online content provided on the MyIPO & WIPO portals.
- Overall, a holistic resolution should consider IP education at Malaysian Polytechnics similar to the USA [13], particularly on its basics. Thus, an inclusion of IP chapter in the existing syllabus, through a collaboration between DoPE & MyIPO, for instance, will definitely help in realizing Malaysia's TN50 aspiration to become a top 20 nation in economic development, social advancement and innovation.[14]

Thank you.

### References

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- 2. Department of Polytechnic Education. Internet: <a href="https://www.mypoliteknik.edu.my/">https://www.mypoliteknik.edu.my/</a> [Feb. 10, 2018].
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