



MALAYSIA-JAPAN INTERNATIONAL INSTITUTE OF TECHNOLOGY : MJIIT

MASA GOTO

Based on G2G Agreement between Malaysia and Japan

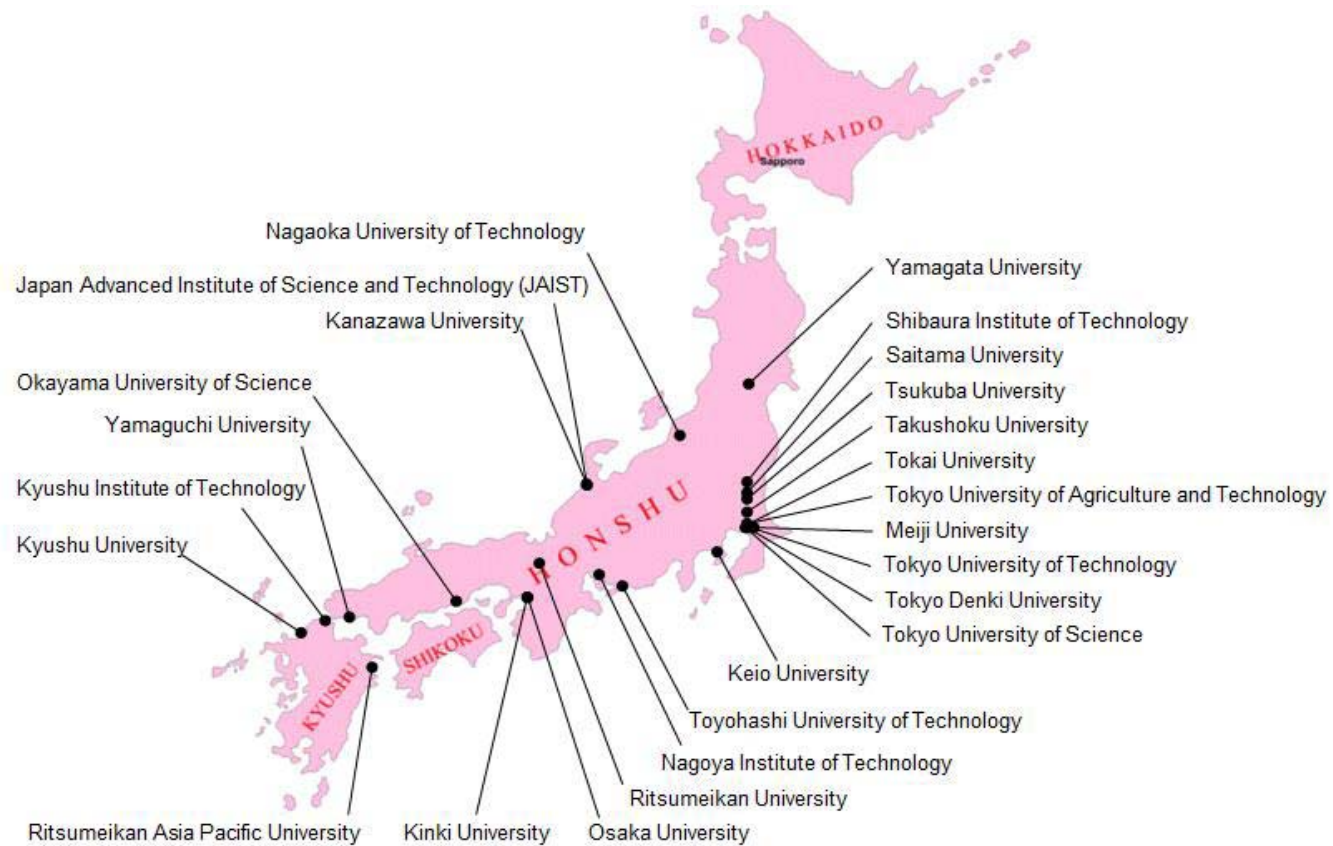
- ▶ G2G (government to government)
 - Tun Mahathir B Mohamad
 - Mr. Jun-ichiro Koizumi
- ▶ Featuring Japanese
 - Cutting-edge Technologies
 - Working culture
- ▶ Final stage of LEP
(**Look East Policy**)
 - LEP: Study in Japan
 - MJIT: Targeted to learn the same in Malaysia



IGP PHOTO

Partnership with Japanese Universities

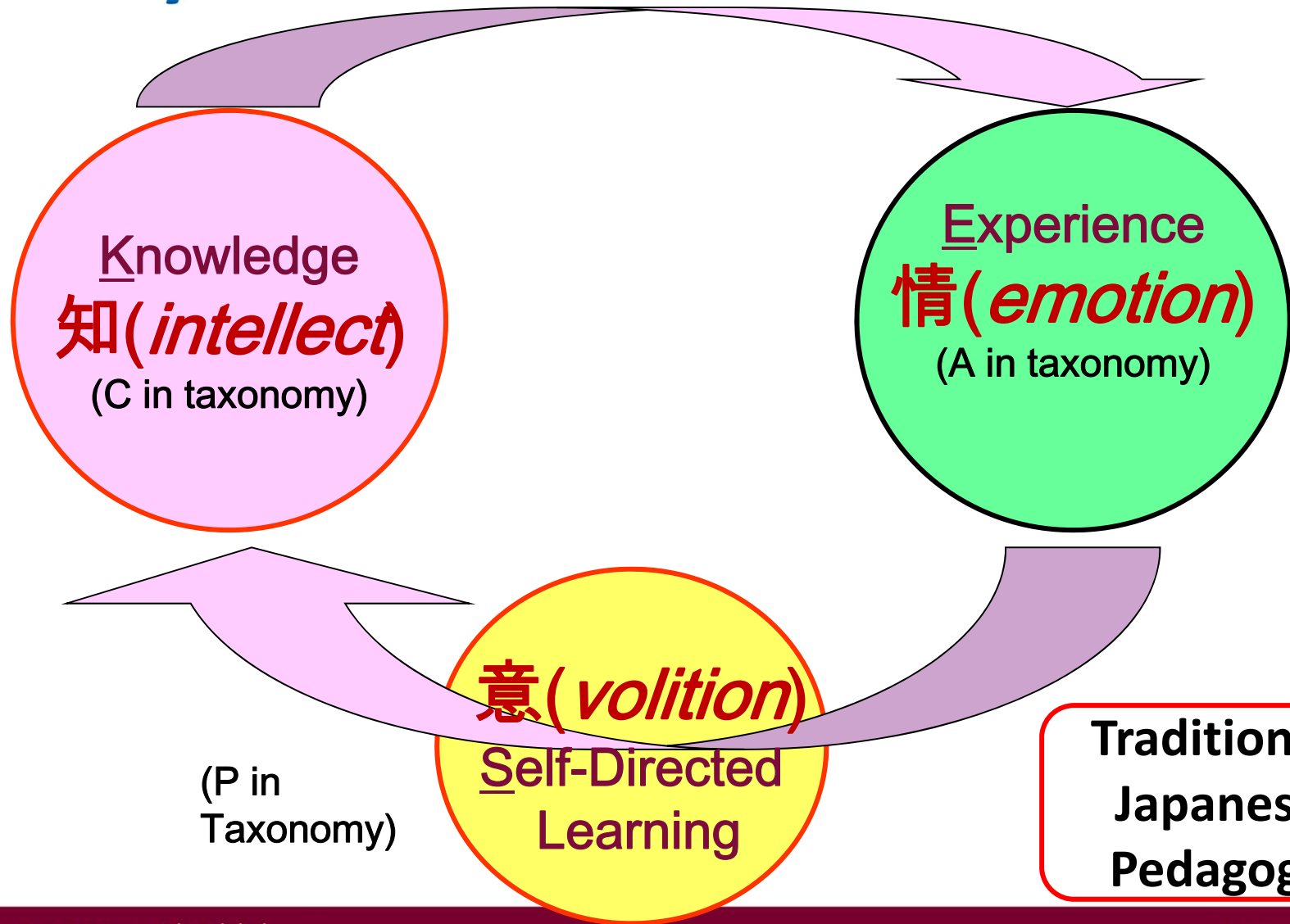
JUC: 29 Japanese Universities and Research Institutes



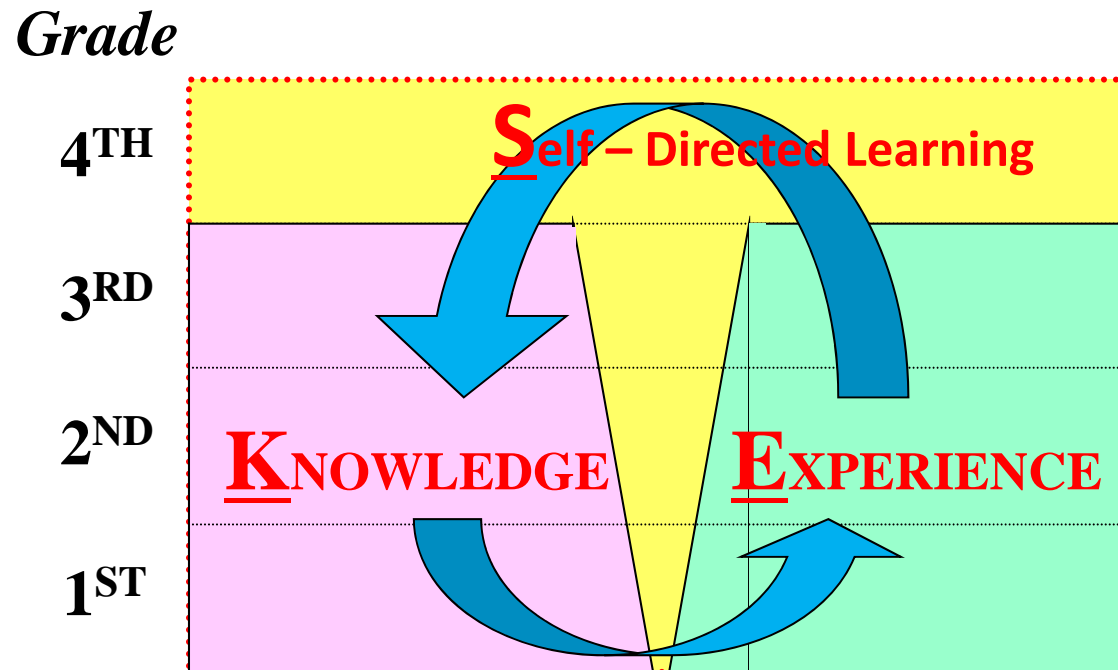
Uniqueness of Education

- **Mandatory Japanese** language courses
- **Leadership lectures**
- Curriculum based on **Knowledge-Experience and Self-study** (KES) pedagogy concept
- Holistic approach in **Nigenryoku**
- “**Sempai-kohai**” relationship through iKohza (FYP, Lab assistants from PG)

KES Cycle: Curriculum Base

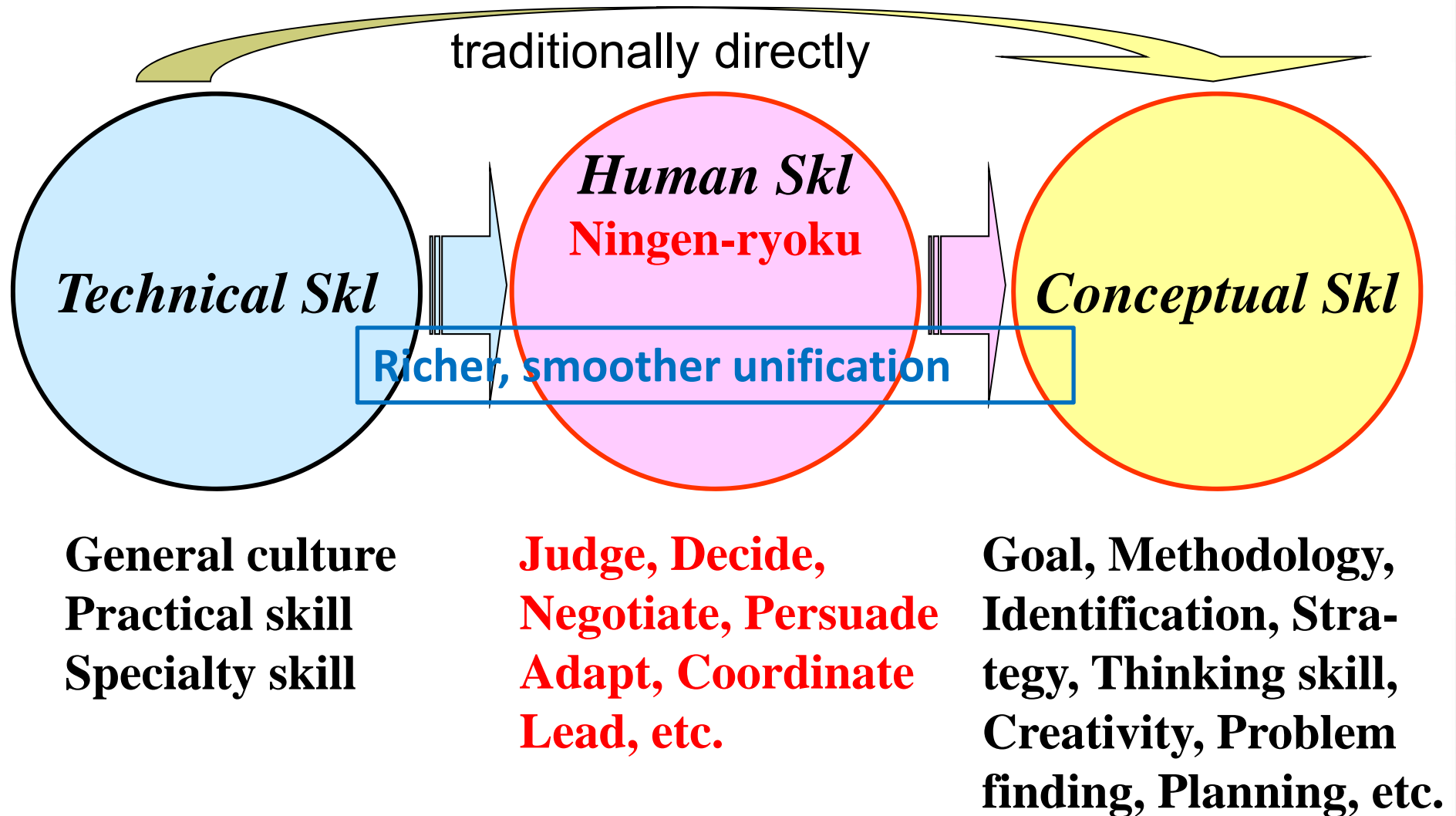


KES-Based Curriculum

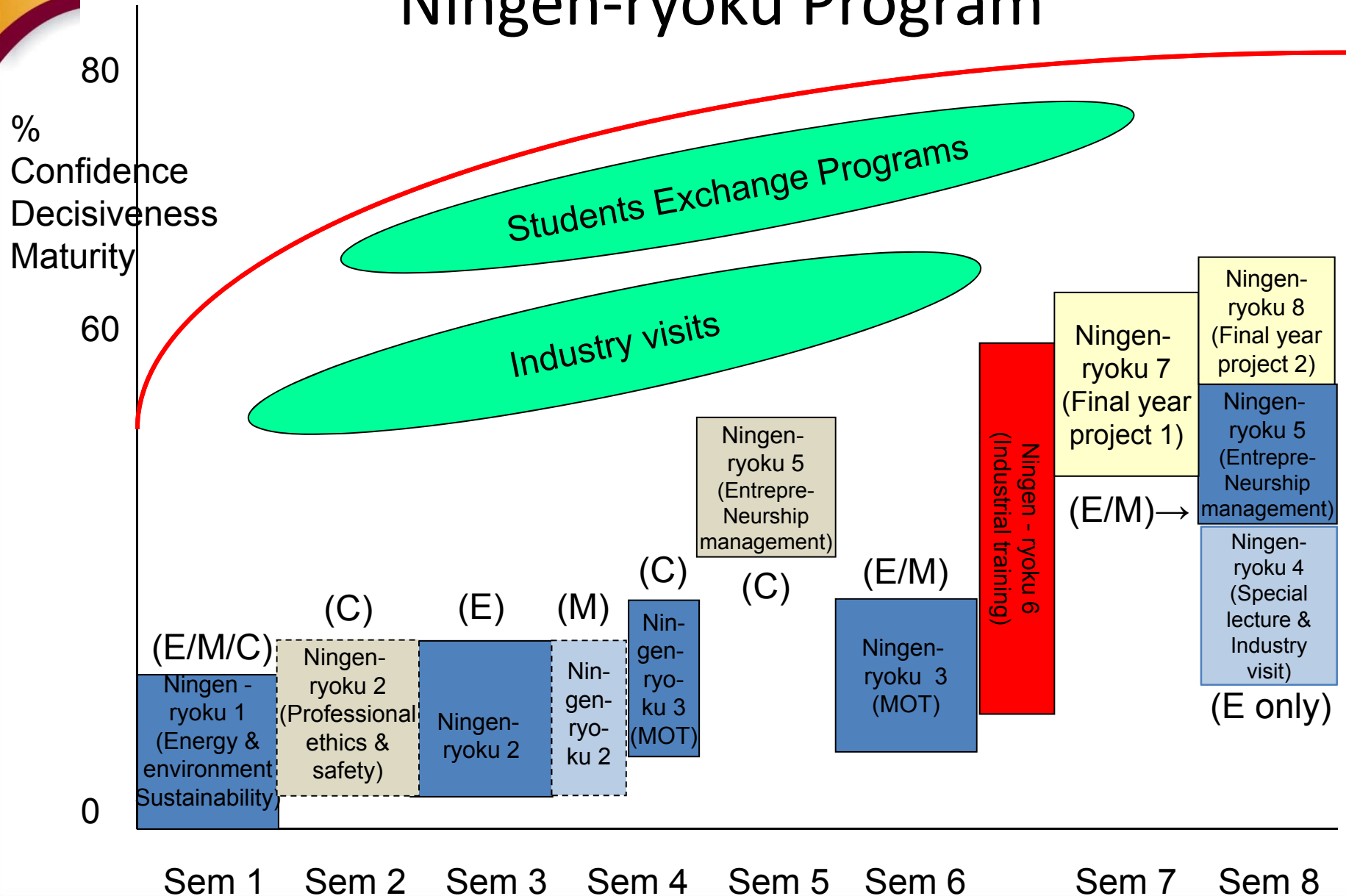


Dominant factor for creativity/novelty

Ningen-Ryoku



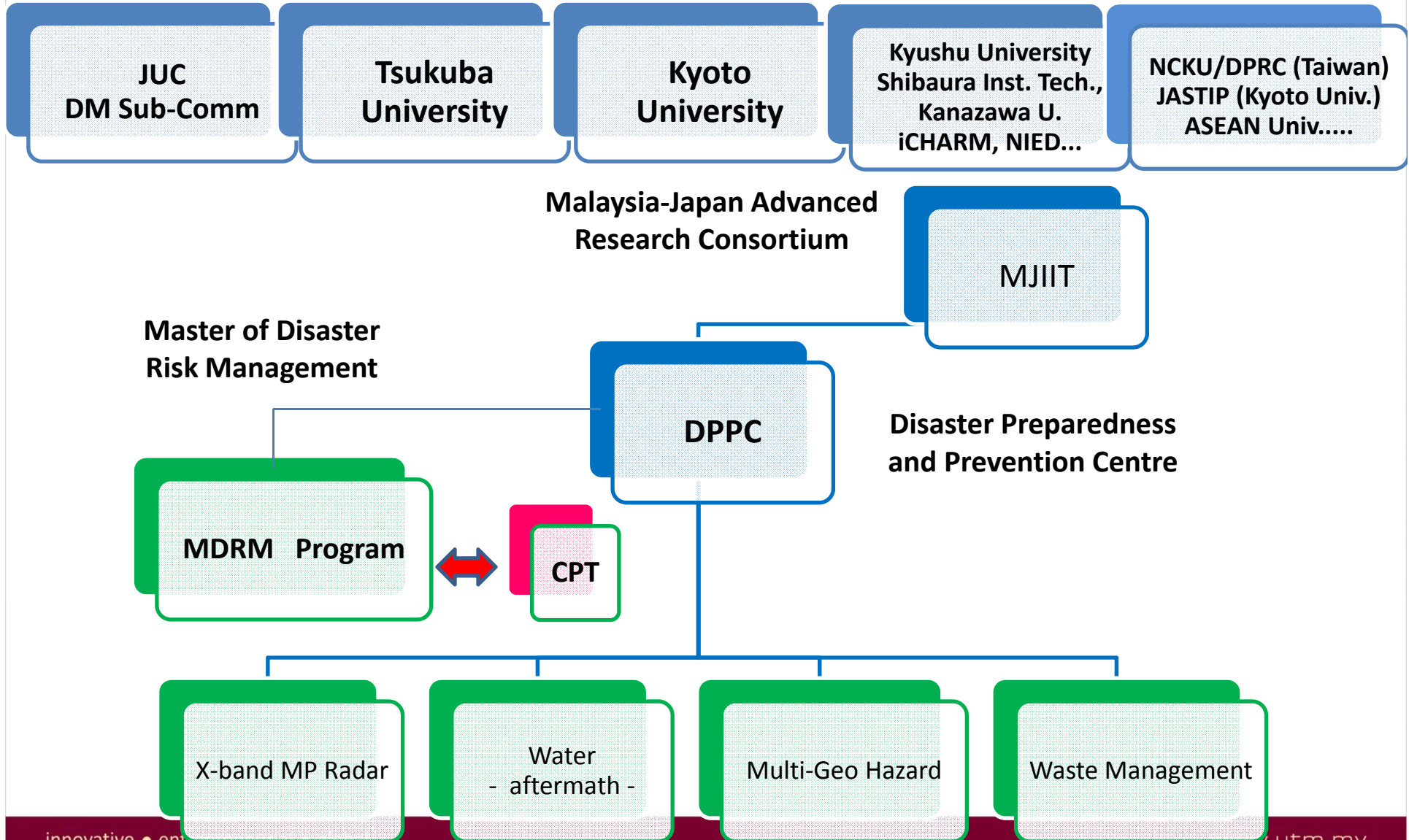
Ningen-ryoku Program



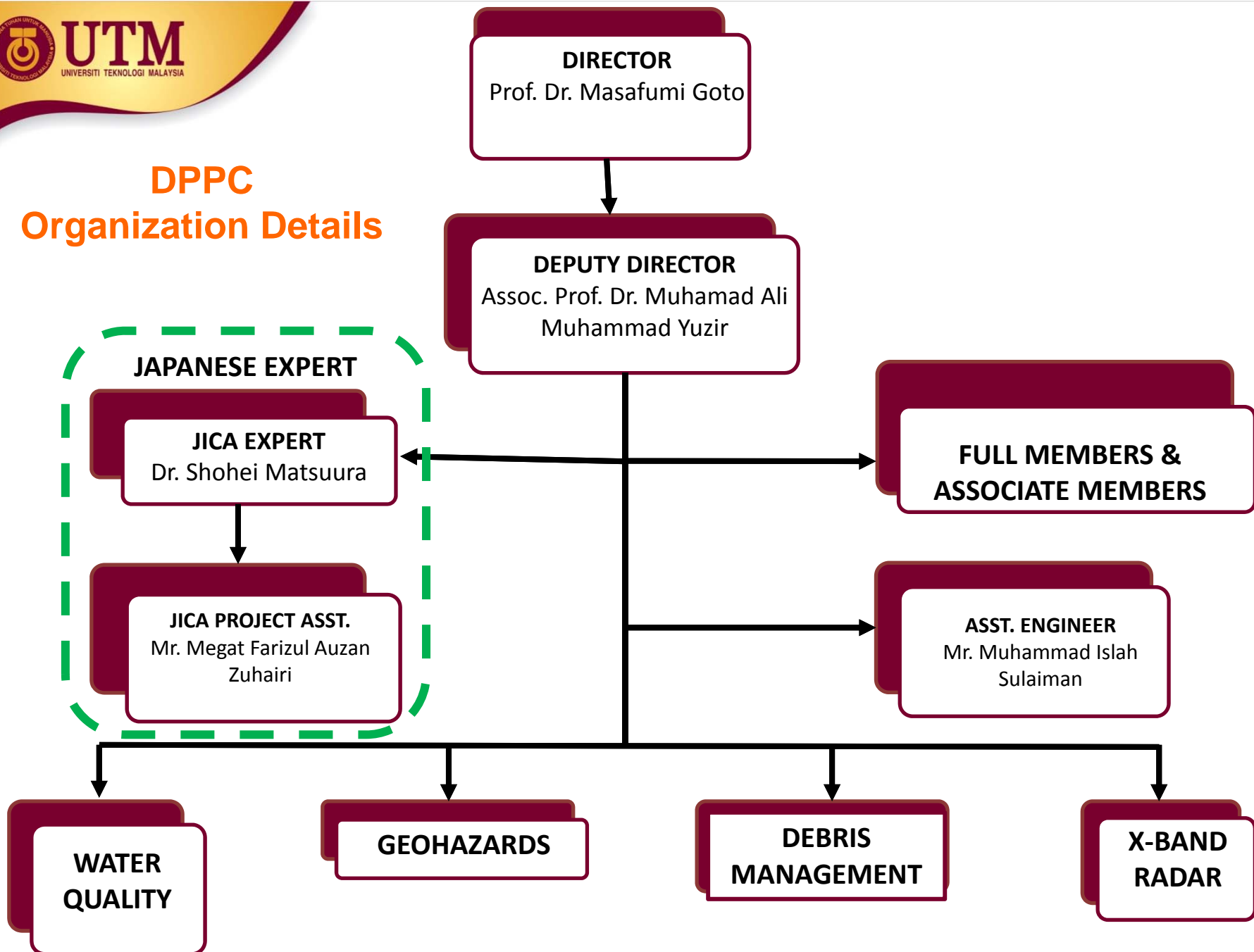
DISASTER PREPAREDNESS & PREVENTION CENTER (DPPC)

INTRODUCTION: DPPC

Support and Int'l Collaboration



DPPC Organization Details



new

MASTER OF DISASTER RISK MANAGEMENT (MDRM)

- ❖ Taught course Master Programme
- ❖ Full-Time, Mid-career professional
- ❖ 2 Semesters + 1 Short Semester
- ❖ Professional support from Japan
- ❖ More details at mjiit.utm.my/mdrm

**Two weeks
attachment in
Japan!**



SCAN THIS QR CODE WITH
YOUR SMARTPHONE TO SEE
WHERE IT TAKES YOU!



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

Malaysia-Japan
International
Institute of Technology
(MJIIT)



Japan International
Cooperation Agency



JASTIP Signing Ceremony



JASTIP Disaster Prevention Joint Laboratory



Japan - ASEAN
Science, Technology and
Innovation Platform

Researchers from all ASEAN and Japan



Community Initiative
Research for SDG

Joint lab
Environment · Energy

Environment · Energy

National Science and Technology
Development Agency (Thailand)
(NSTDA)



Disaster Prevention
Malaysia-Japan International
Institute of Technology (MJIIT)



Disaster Prevention

Joint lab

Japan-ASEAN Joint Research
to Achieve SDGS

Bio-resources ·
Biodiversity

Joint lab

Disaster Prevention X Biodiversity

Research into prevention of peat bog fires for
biodiversity conservation and ecological restoration

Bio-resources · Biodiversity

Indonesian Institute of
Sciences (LIPI)



DPPC: Office (Level 2 MJIIT)



DPPC: Laboratories (Level 2 MJIIT)



The **laboratory** will be used mainly for water, geohazard and microbiological testing for disaster response.



MJIIT with JASTIP will establish a **disaster prevention joint-laboratory** which aims to build up a comprehensive international laboratory for disaster prevention researches dealing with heavy rain and flood, sediment disaster, volcanic disaster, atmospheric disaster, earthquake and tsunami, etc. which break out frequently in ASEAN countries. MJIIT provides office space for visiting JASTIP and/or Japanese counterparts.

JASTIP Disaster Prevention Joint Laboratory (Level 2 MJIIT)



JASTIP

- Assessing Water Quality in the Langat River Basin During Disaster Period Using Integrated Remote Sensing and Modeling Methodologies



Aftermath counter measure
on water supply and
sanitation in disaster area



Integrated Study
On
Disaster
Management In
Malaysia

Development of
natural disaster
vulnerability index
for Malaysia

Machine learning
and drones for
disaster response
and relief
operation



Flood and landslide
forecasting



JASTIP Project : Objectives

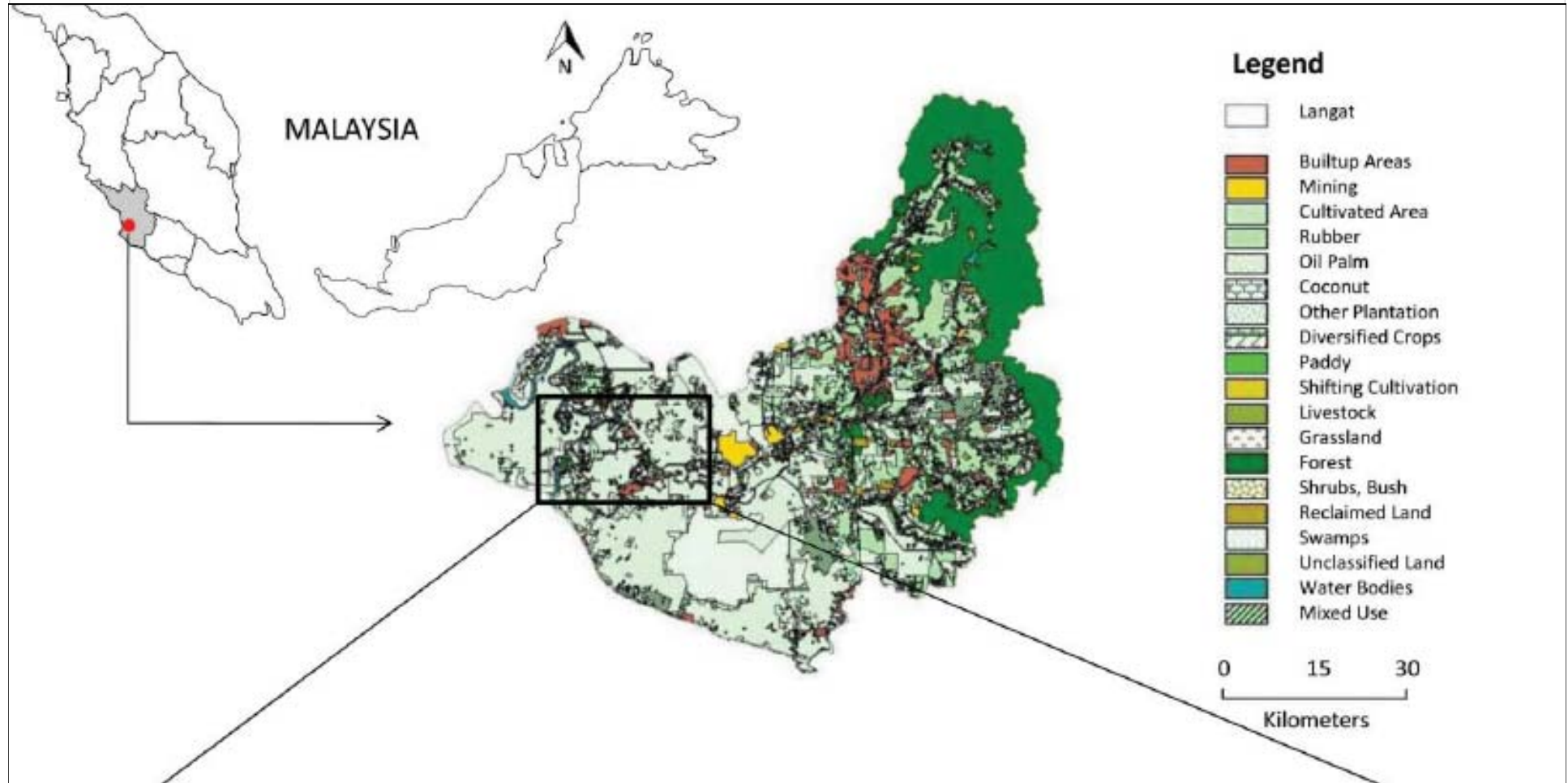
- To produce a risk map for natural disaster induced by climate change considering the adaptive capacity of the Malaysian people.
- To produce plan or systems for disaster risk reduction.
- To engage and educate the community on disaster issue (colloborate with NCKU, Taiwan)

Challenges:

- Subjected to regular flooding





LAND USE



(Source : Mokhtar et al., 2011)

Sungai Langat 78 km, 2350 km²



 Paddy
 Shifting Cultivation



MASTER OF DISASTER RISK MANAGEMENT

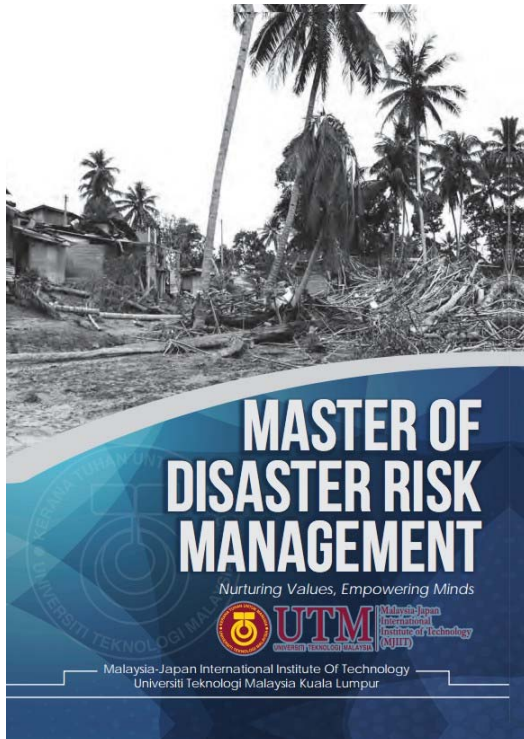
INTRODUCTION: MDRM

DISASTER RISK MANAGEMENT (DRM) @MJIIT, UTM KUALA LUMPUR

Master by taught course
(MDRM)

PhD/Master by research

Certified Professional
Training (CPT)



Facilitating Disaster Risk Reduction in Asia through Training –Research – Field
Practice

Disaster Prevention & Preparedness Center (DPPC)

Advice & Coordination

Tsukuba University & DRM
Subcommittee members

Operational Support

JICA Expert



Master of Disaster Risk Management (MDRM)

DRM's Certified Professional Training (CPT)



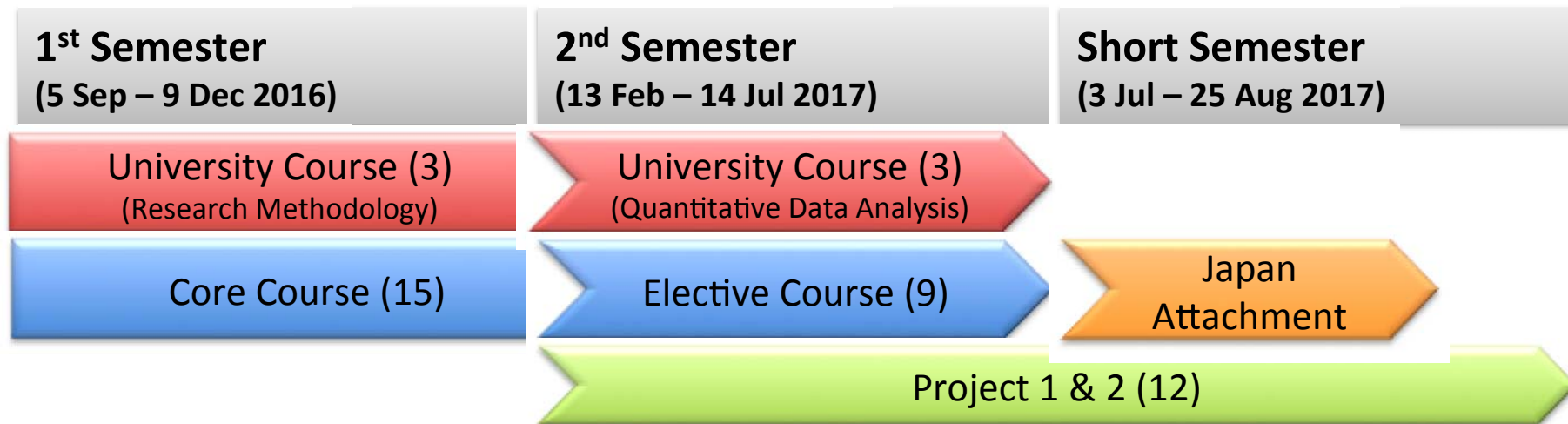
Supported by:



@ <http://mjiit.utm.my/mdrm/>



- 1 year Master's Degree Taught Course



FIRST SEMESTER

COMPONENT	COURSE	CREDIT
University Course	Research Methodology	3
Core Course	Integrated Disaster Management	3
Core Course	Disaster Data Management And Forecasting	3
Core Course	Control Measures And Mitigation Planning	3
Core Course	Emergency Reponse Planning And Communication	3
Core Course	Recovery And Reconstruction Management	3

SECOND SEMESTER

COMPONENT	COURSE	CREDIT
University Course	Quantitative Data Analysis For Disaster Management	3
Elective	Refer To The Table Of Elective Courses	3
Elective	Refer To The Table Of Elective Courses	3
Elective	Refer To The Table Of Elective Courses	3
Project	Project 1	3

SHORT SEMESTER

COMPONENT	COURSE	CREDIT
Project	Project 2	3

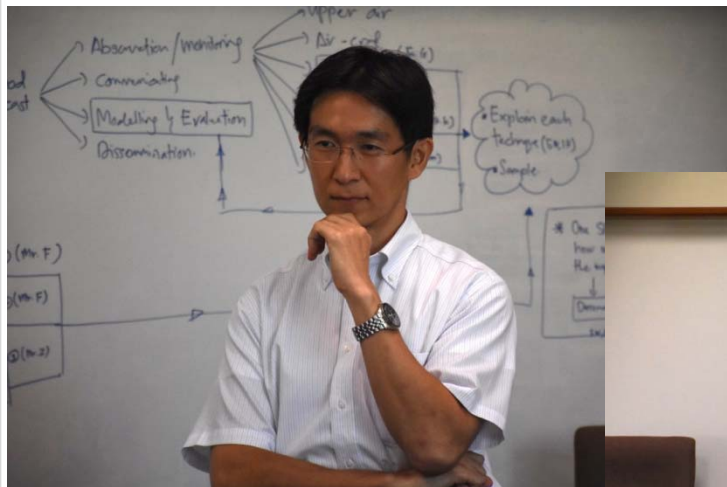
ELECTIVE COURSES

TECHNICAL	POLICY & MANAGEMENT	CREDIT
Control Measures For Landslides And Debris Flow Flood Forecasting And Hazard Mapping River Systems And Management Geo Information In Disaster Risk Assesment Flood Hydraulics And Mechanics Of Sediment Transportation	Disaster Education And Preparedness Community And Social Resilience Public Health Policy And Management Healthcare In Emergencies And Rehabilitation Disaster Psychology	3 / COURSE



Features of MDRM :

- Exclusive master course for working professionals
- Sharing of knowledge and experience from Japan and Asia
- Lectures by team of Japanese and Malaysian lecturers
- Module based courses (2 weeks for each course)



Dr. Koji Dairaku, NIED

Prof. Kenichi Tsukahara
Kyushu University



Prof. Emeritus Kuniyoshi Takeuchi
Yamanashi University and ICHARM

Certified Professional Training

INTRODUCTION: CPT

Certified Professional Training

CPT students have the option to take the **2-week full course** or to attend lecture sessions given by **Japanese lecturers (2-3 days)** depending on their **time availability**.

Students who complete the full course will get 3 credits that can be accumulated over a period of 3 years to pursue a MA degree. Students who attend the 2-3 days session will be certified for **Continuing Professional Development (CPD)**.

**CPD application in process.*

FEE INFORMATION

RM 2,500 per full course (2 weeks)

RM 1,300 per 2-3 days session by Japanese lecturers

MDRM Seminar 2016



UTM Disaster Risk Reduction (DRR) Forum 2016



UTM Disaster Risk Reduction (DRR) Day 2016



**MDRM Seminar
(August)**

**UTM DRR Day
(October 13)**

**UTM DRR Forum
(November)**



- In-class program (lectures, exercises, etc.)



- Out-of-class programs (field programs, visits to DRM agencies, etc.)



Terima Kasih
Thank you