

Current and Future Direction in Teaching and Learning: A Case for UniKL Malaysian Institute of Information Technology

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INTRODUCTION



UNIVERSITY	UNIVERSITI KUALA LUMPUR
FACULTY	MIIT (School of IT)
TOTAL NO. OF STUDENTS	MIIT : 2600 UNIKL: 23,000+_
ACADEMIC PROGRAM	5 Diploma 7 Degrees 1 MSc 1 PhD
LOCATION	KL City Centre

ACADEMIC



ACADEMIC PROGRAM

LEVEL	PROGRAM
DIPLOMA	 Diploma in Networking Diploma in Computer Engineering Diploma in IT Diploma in Multimedia Diploma in Animation
BACHELOR	 Bachelor in Networking System Bachelor in Computer Engineering Bachelor in Computer Security System Bachelor in Software Engineering Bachelor in Computer Entrepreneurial Management Bachelor in Interactive Multimedia Bachelor in Animation
MASTER	MIT (Research)
PhD	PhD (IT)

STRATEGY 1: EMBEDDED PROFESSIONAL CERTIFICATE

DEGREE	PROFESSIONAL CERTIFICATE
Bachelor in Networking System	✓ CCENT ✓ CCNA CCNA Security CCNP I (Advanced Routing) CCNP 2(Multilayer Switching) CCNP 3(Network Troubleshooting)
Bachelor in Computer Engineering	* MicroChip
Bachelor in Computer Security System	✓ Certified Ethical Hackers✓ CCNA Security
Bachelor in Software Engineering	 ✓ Certified Professional Requirement Engineer ✓ Certified Tester Foundation Level ✓ InfoSys
Bachelor in Computer Entrepreneurial Management	✓ InfoSys ✓ SAP
Bachelor in Interactive Multimedia	✓ Adobe Certified Associate
Bachelor in Animation	✓ NUKE Level 1 Certification

Academic Program











CERTIFICATE BODIES



Networking

Academy











Strategy 2: PROFESSIONAL CERTIFICATE – A requirement to graduate

PERIOD	
2010 - 2014	EMBED PROFESSIONAL CERTIFICATES IN ACADEMIC PROGRAM
	PREPARE STUDENTS FOR EXAMINATION
	ENCOURAGE STUDENTS TO SIT FOR THE EXAM BEFORE THEY GRADUATE
2015 +	PROFESSIONAL CERTIFICATE: REQUIREMENT TO GRADUATE

PROFESSIONALLY CERTIFIED NO. OF STUDENTS

YEAR	201 0	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Cert			200	300	500						

PROVIDE INCENTIVE FOR STUDENTS TO GET PROFESSIONAL CERT!!

Strategy 3: INDUSTRY ATTACHMENT AND MOBILISATION (Overseas) IN THE FORMULATION OF CURRICULUM

SEMESTER	LIST OF SUBJECTS	OUTCOMES	ACADEMIC PLAN
1			
2			
3			
4			INDUSTRIAL ATTACHMENT
5			EXCHANGE 1- (OVERSEAS)
6			EXCHANGE 2 - (Overseas)/ FINAL YEAR PROJECT 1
7			FINAL YEAR PROJECT 2
8	INDUSTRIAL TRAINING		INDUSTRIAL TRAINING

COMPULSORY FOR STUDENTS TO SPEND AT LEAST 1 SEMESTER AWAY FROM UNIKL/MALAYSIA!!

EXAMPLES OF CURRICULUM INCLUDING LIST OF SUBJECTS AND OUTCOMES

 Matrixes for Bachelor of Multimedia Technology in Interactive Multimedia Design

GLOBAL MOBILISATION



INTERNATIONAL STUDENTS EXCHANGE (OUTBOUND)

Year	Universities	Students
Jul 2010	Carinthia University of Applied Sciences, Austria	3
	Politeknik Seni Yogyakarta, Indonesia	6
Jan 2011	Royal University of Agriculture, Cambodia	11
Jul 2011	Hanyang University, South Korea	2
	Royal University of Agriculture, Cambodia	5
	Semyung University, South Korea	4
Jan 2012	Royal University of Agriculture, Cambodia	5
	Semyung University, South Korea	5
Jul 2012	Hanyang University, South Korea	1
	Royal University of Agriculture, Cambodia	6
Jan 2013	Royal University of Agriculture, Cambodia	10
	Semyung University, South Korea	7
Sept 2013	Royal University of Agriculture, Cambodia	9
	Semyung University, South Korea	2

INTERNATIONAL STUDENTS EXCHANGE (OUTBOUND)



INTERNATIONAL STUDENTS EXCHANGE (INBOUND)

Year	Universities	Students
Jul 2009	Carinthia University of Applied Sciences, Austria	2
Jul 2010	Carinthia University of Applied Sciences, Austria	3
	Politeknik Seni Yogyakarta, Indonesia	6
Jul 2011	Semyung University, South Korea	5
Jul 2012	Semyung University, South Korea	5
	ECE Paris, France	13
Jan 2013	Semyung University, South Korea	6
	ECE Paris, France	29
Sep 2013	Carinthia University of Applied Sciences, Austria	4
	ECE Paris, France	31
	Hanyang University, Korea	1
	Semyung University, Korea	3

INTERNATIONAL STUDENTS EXCHANGE



INTERNATIONAL STUDENTS EXCHANGE (SHORT COURSES)

Year	Universities	Programmes / Duration	Students
Jun 2011	International Information Technologies University, Kazakhstan	Edu-Tourism (2 weeks)	21
Jan 2012	Hanyang University, South Korea	English as a Second Language (ESL) (2 months)	20
Jan 2013	International Information Technologies University, Kazakhstan	Internship (1 month)	13
Jun 2013	Hanyang University, South Korea	Korean Cultural Programme (2 weeks)	24
Jul 2013	Semyung University, South Korea	English as a Second Language (ESL) (1 month)	33

INTERNATIONAL STUDENTS EXCHANGE (SHORT COURSES)



AWARD / SCHOLARSHIP



ERICA Scholarship
(combined Masters and Doctoral in Engineering studies)
by HANYANG UNIVERSITY, KOREA

AWARD / SCHOLARSHIP



ACE GLOBAL Scholarship (Degree) by SEMYUNG UNIVERSITY, KOREA

ACADEMIC MOBILISATION



IITU, Kazakhstan AP Dr Shamsul Anuar Mokhtar (Sept – Dec 2012)

LECTURERS EXCHANGE

KazaTU, Kazakhstan Samratul Janin Sidal (Nov – Dec 2012)



CURRENT UNIVERSITY PARTNERS



AUSTRIA



INDONESIA











FRANCE



CAMBODIA





KAZAKHSTAN

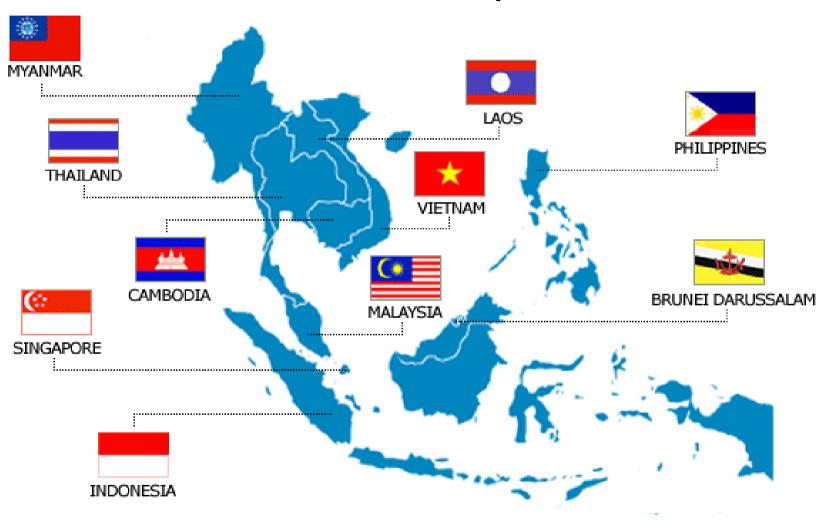




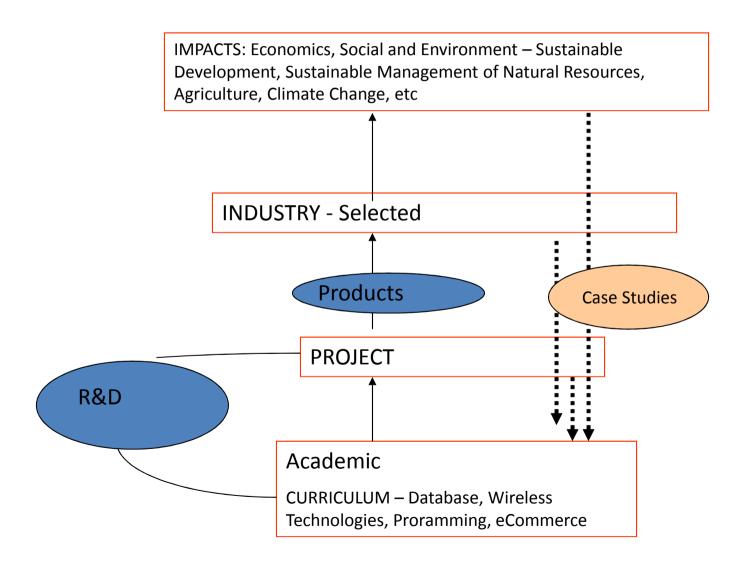
Strategy 4: Promote the Concept of "Associate Campus"

- Register your partner universities as your associate campus
- Gred and subjects studied in associate campus will be calculated as part of GPA and CGPA.

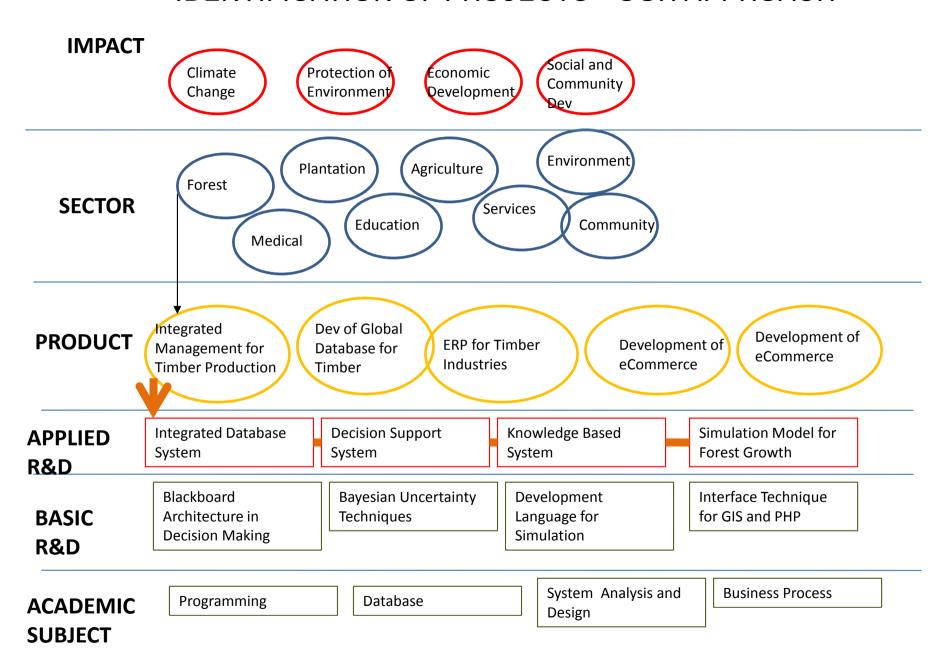
Extension: Universities in ASEAN countries – Associate Campus



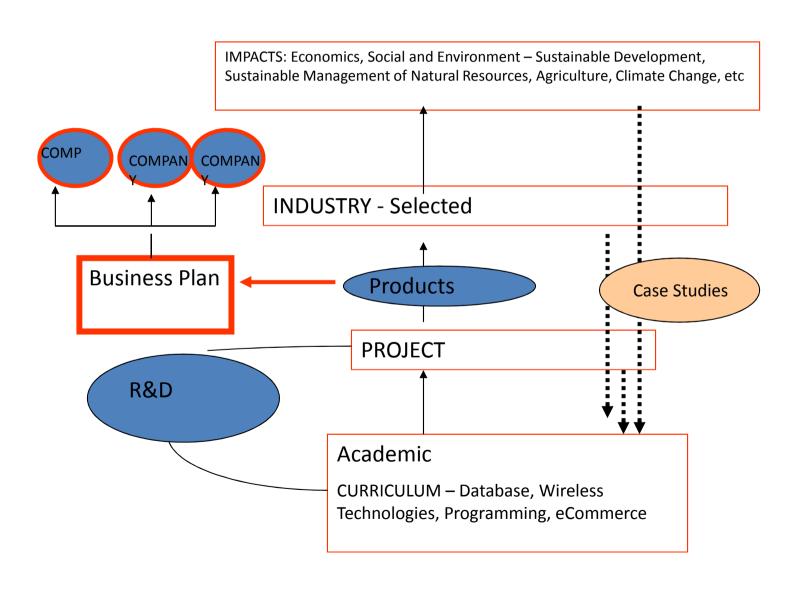
Strategy 5: R&D to Support Academic Excellence



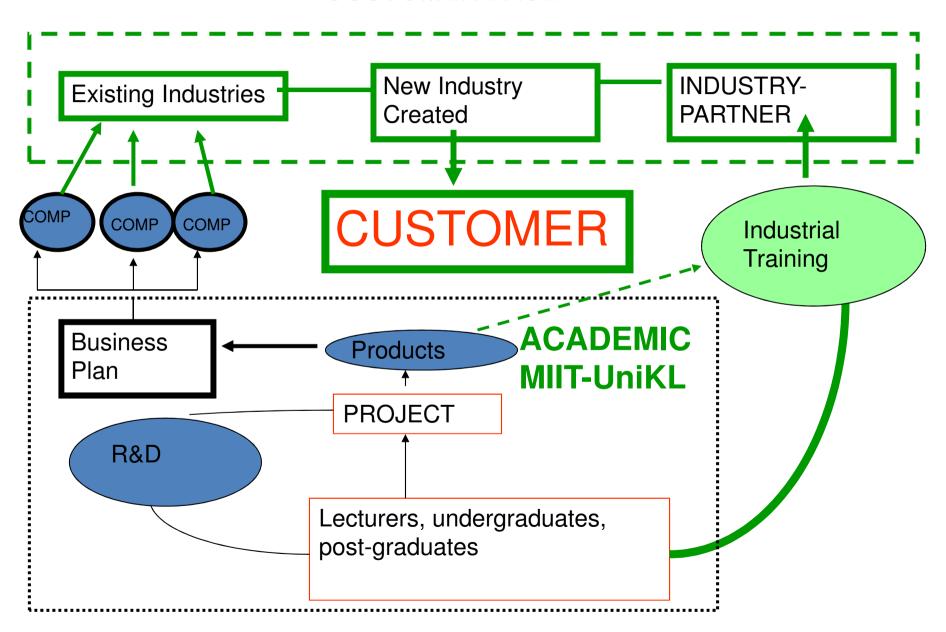
IDENTIFICATION OF PROJECTS – OUR APPROACH



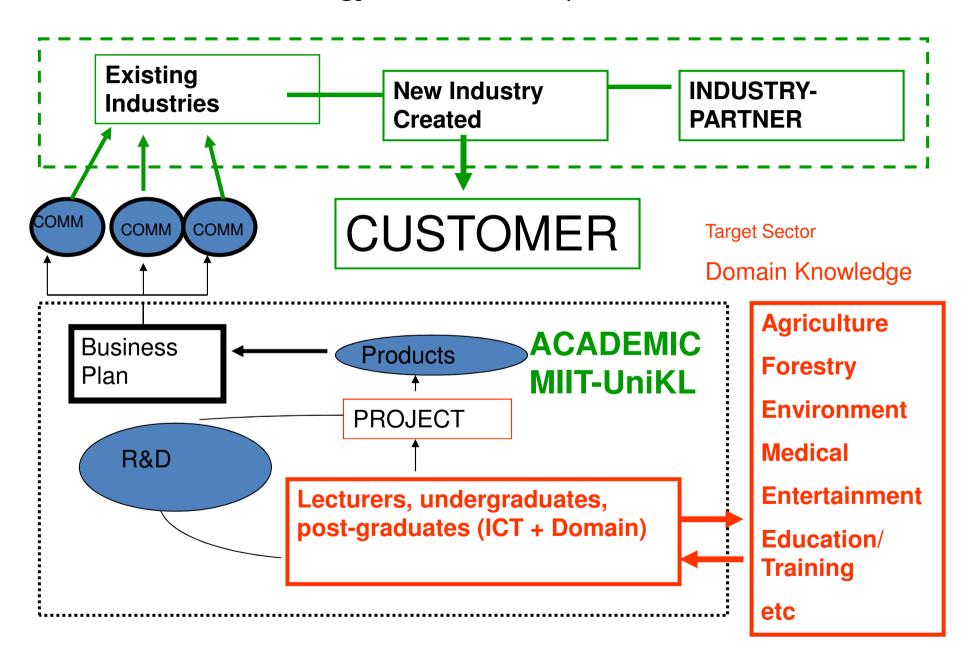
Strategy 5b: Integrate ACADEMIC, R&D AND TECHNOPRENUER



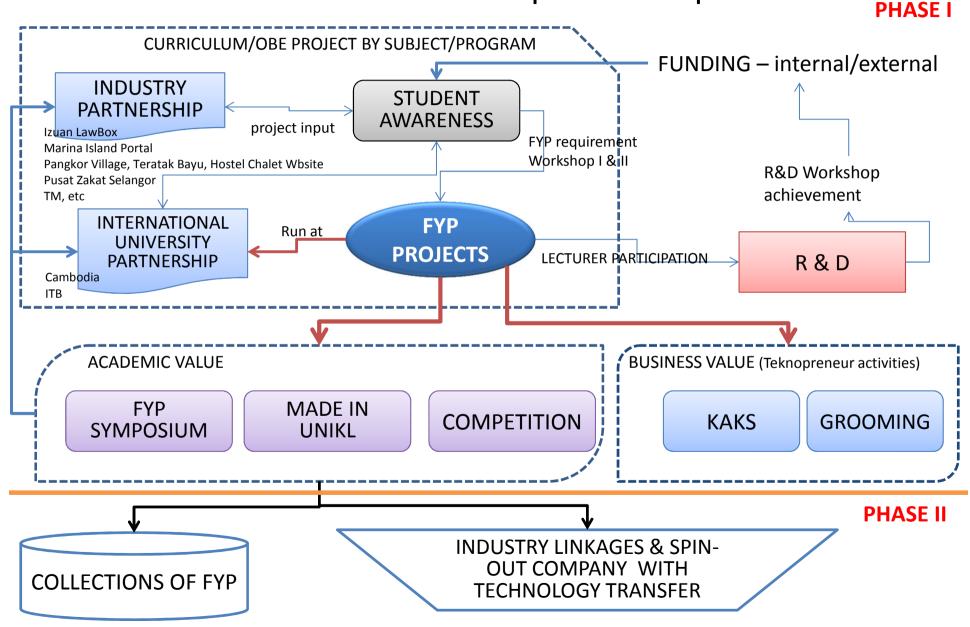
Strategy 5c: Strengthen Linkages with Industries - CUSTOMER BASE



Strategy 5d: Focus on Specific Sector



Strategic 6: FYP – Integration of Academic, R&D and Technoprenuership



SEG - AGRICULTURE & FORESTRY PROJECT				
PROJECT	SIG	STATUS		
Flexible Smart Greenhouse Computing	AI, Robotic	FYP PROJECT – APPLY FOR MARA & STRG		
Hybrid Bio-Kinetic wireless charger	IMAGE	FYP PROJECT		
Robot Surveyor	ROBOTIC	FYP PROJECT		
An Integrated Learning Infrastructure using Cloud- based Environment	SECURITY	FYP PROJECT – APPLY FOR MARA & STRG		

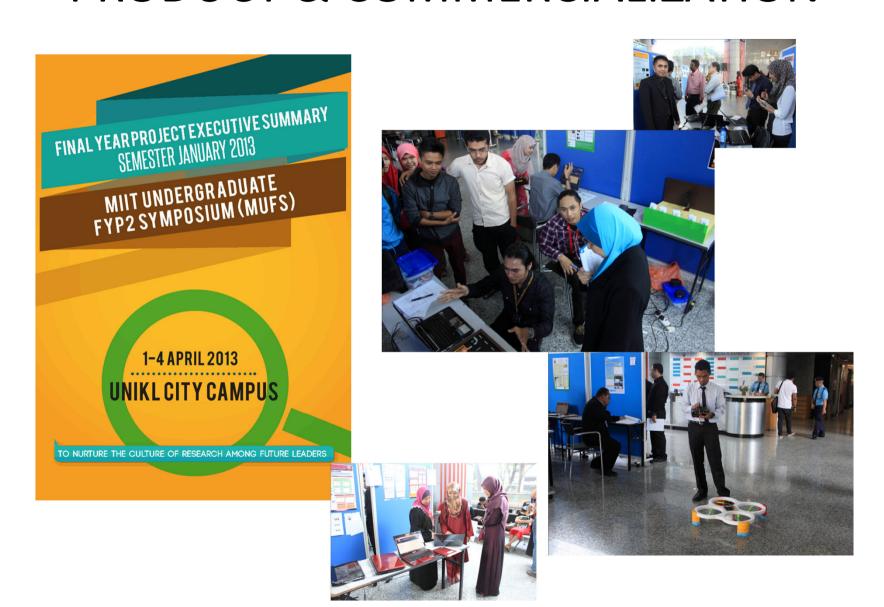
SEG - AGRICULTURE & FORESTRY PROJECT			
PROJECT	SIG		
Price Determination Mechanism Using Artifical Neural	AI, DATA MINING, E-COMMERCE		
Implementation of electronic payment gateway for agriculture sector in Combdia	E-COMMERCE		
Mixed Network Model using Very Small Aperture Terminal (VSAT) and Wireless (Wi-Fi) Technology during the rain climates in Rural of Combodia	SECURITY, E- COMMERCE		
A comparative studies and critical evaluation of the E-Citie Mobile Application.	E-COMMERCE		
The studies on technological acceptance and the organizational impacts of E-Cities mobile application.	E-COMMERCE		

SEG - ENTERTAIMENT			
PROJECT	SIG		
Interactive augmented reality and embedded video for printed material	IMAGE PROCESSING		
Designing Web-based 3D Educational Virtual Environments (EVESs_ to support Learning Basic Physiotherapy for Medical and Allied Sciences Education			
Preserving Historical Artifact Using 3D Hologram Projector	ANIMATION		
BizzAR: Interactive Augmented Reality (AR) Business Card	MULTIMEDIA		
Panglima Awang	ANIMATION		
A guideline for 2D Animator to create effective Autism Body Gesture In Short Animation "A Christmas Gift"	IMAGE PROCESSING & MULTIMEDIA		

SEG - EDUCATION		
PROJECT	SIG	
A study of an assistance for the mobility impaired to an innovative solution adapted based on Holistic Cognitive Voice Haptic Architecture (HCVHA model) as an approach to aid and support human independent living (HIL) for visually impaired community	Education	
Agent-based Personal Learning Environment (aPLE): Students Approach on using Social Networks as Learning Tools	Education	
A computerized framework for outcome based education (OBE) assessment in higher education	Education	
An empirical study of Attitude towards problem solving and mathematics achievement among engineering technology students	Education	
Computer Mediated Learning Framework for Engineering Mathematics in MARA Learning Institutes	Education	

SEG- MEDICAL & FORESTRY		
PROJECT	SIG	
Knowledge Pattern Discovery for Outbreak Detection in Public Health Surveillance: Dengue Cases	AI, DATA MINING	
Optimization model based on Simulated Annealing technique for harvest planning : selective cutting for Timber Harvest Planning	EXPERT SYSTEM	
Spatial association model of new indicator using data mining approach for dengue preparedness	EMBEDDED SYSTEM	

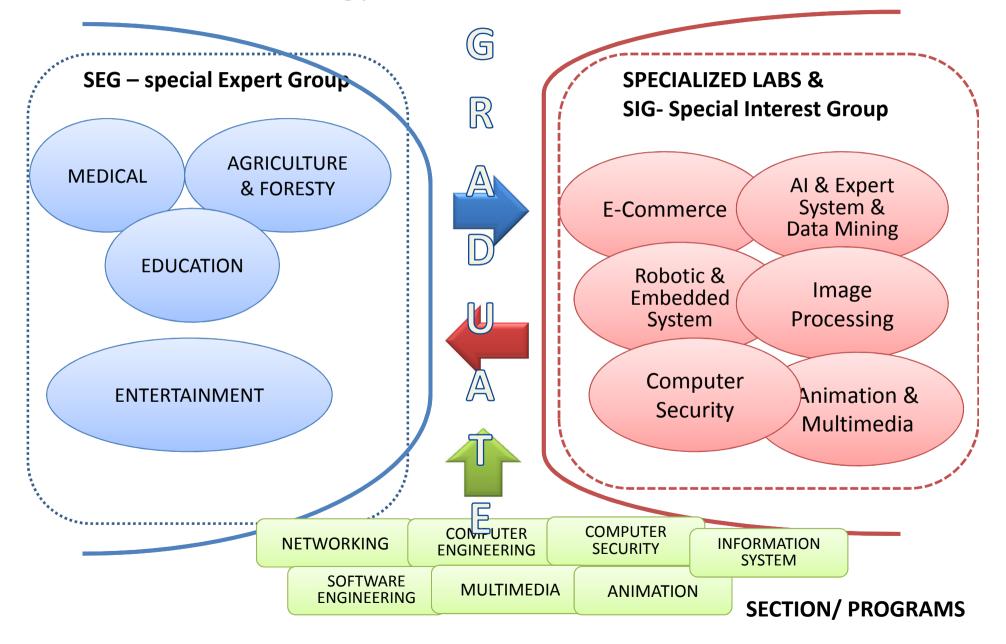
FYP ACTIVITIES 2012-13– PRODUCT & COMMERCIALIZATION



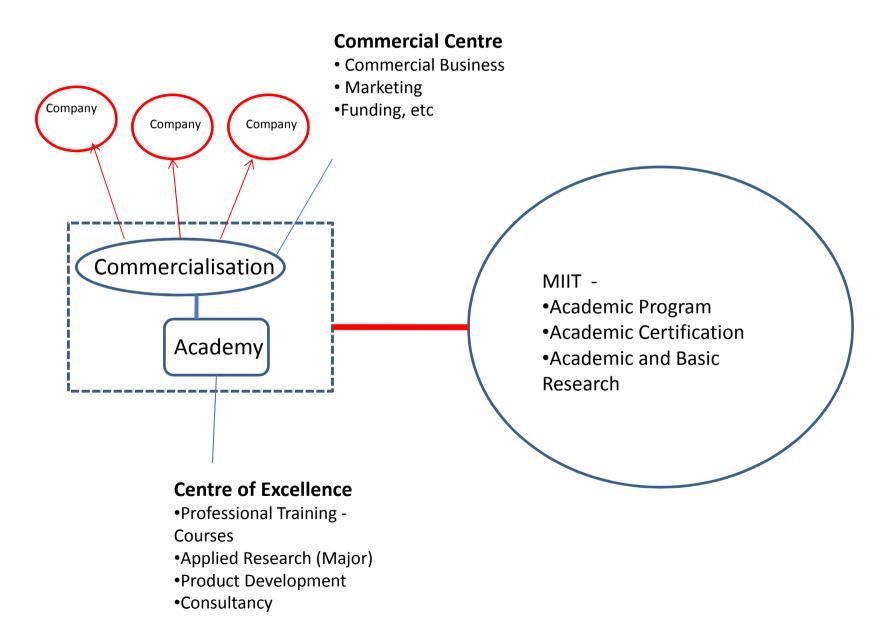
COMPETITION ACTIVITIES 2012-13

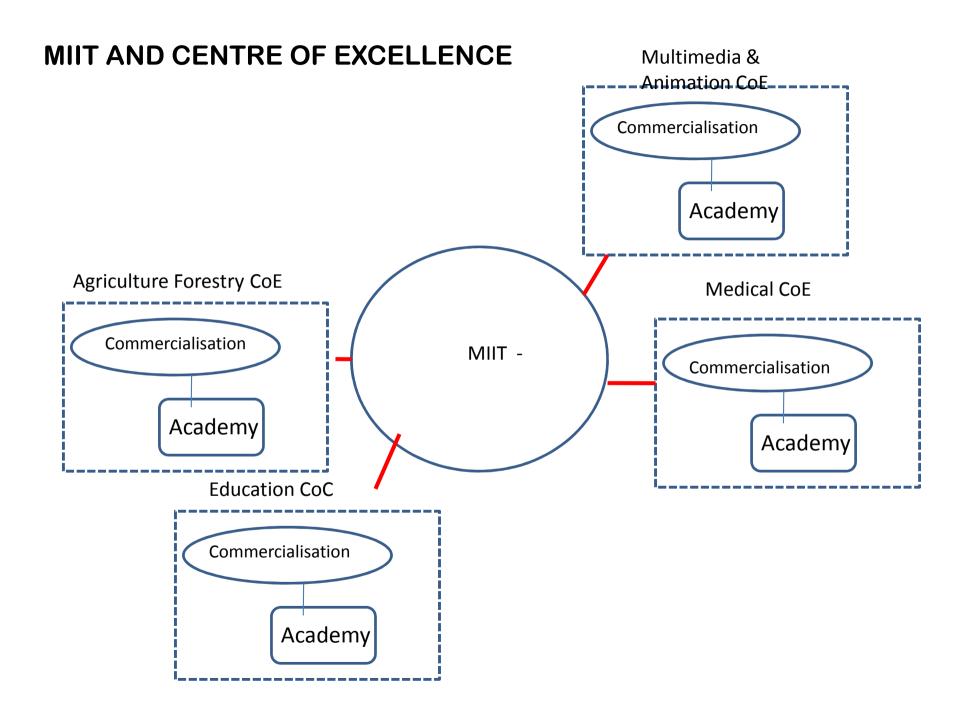


Strategy 7: Create Centre of Excellence



Strategy 7: Create Centre of Excellence





CONCLUSION

- To produce highly skilled graduates for national development (in various economic sectors)
- Graduates that are competitive in the international market due to international exposures
- Produce graduates that can create new and commercial products and employment
- Products that have impacts to society and national development.





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