

OBE In Polytechnic Education

Mesyuarat Timbalan Pengarah Bil1/2010

THE JOURNEY.....



▣ WHAT

- ▣ 4 OBE Principles
- ▣ 3 OBE Elements – CIA

▣ SO WHAT

- ▣ 21st century
- ▣ Transformasi Poly

▣ NOW WHAT

- ▣ Constructive Alignment (CA)
- ▣ Systemic CA
 - ▣ Aligning PLO-CLO
 - ▣ Aligning CIA
- ▣ Poly Roadmap????

WHAT ?



A review of education system



- education system adequately prepare students for 21st century life and work ?
- Is Traditional Education (TE) adequate?

“ HE Sector-wide movement from traditional education (TE) to OBE “



TE

OBE

- ☐ Pre-2004
- ☐ INput Measure
- ☐ Content base
 - ☐ taught, examined
- ☐ Teacher-centered
- ☐ Norm-referenced
- ☐ Marks, Grades
- ☐ Transcripts

TE deficiencies



- Graduates are not completely prepared for the workforce.
- Lack of emphasis on soft skills needed in jobs e.g. communication, thinking, self-management, human relationships, english proficiency, ...

Birth of OBE



- In 1989, 5 countries signed the Washington Accord. They are: Australia, New Zealand, the UK, Canada, Ireland & the USA.
- Other full signatories are Hong Kong(1995) South Africa (1999), Japan (2005), Singapore (2006), Taiwan (2007), Korea (2007)
- Provisional members include Malaysia, Germany, India, Russia and Sri Lanka.

The Washington Accord



- The Accord recognises the substantial equivalency of accreditation systems of member states, & graduates from member states may work in other member states.
- The Public Service Department (PSD), Board of Engineers Malaysia (BEM), Malaysian Qualifications Agency (MQA) & Institute of Engineers (IEM) together form the Engineering Accreditation Council (EAC).
- EAC signed for Malaysia.

WHAT is OBE?



A method
of **curriculum design** and **teaching**
that focuses
on what students can actually do
after
they are taught

OBE asks



- What do you want the students to learn?
- Why do you want them to learn it?
- How can you best help students to learn it?
- How will you know what they have learnt it?

OBE vs TE



- ❑ OBE's instructional planning process is a reverse of that associated with TE planning.
- ❑ The desired outcome is selected first and the curriculum, instructional materials and assessments are created to support the Intended outcome.
- ❑ All educational decisions are made based on how best to facilitate the desired outcomes.

4 OBE Principles ...



1. Clarity of Focus

outcomes as the focus; made known to students

2. Designing Down

1st OUTCOME, then C...I....A...designed, alligned

3. High Expectations

high standard of performance or all

4. Expanded Opportunities

opportunities for all to achieve outcome

3 OBE elements.....CIA

1. Curriculum

[Intended Learning Outcomes (ILO)]

WHY teach ?

WHAT **students** should **know, do, be**
after learning ?

NOT A list of topics to be covered!!!

OBE elements....C|A

2. Instruction or Teaching

WHAT **learning activities** should the **students** to engage in order for them to best achieve the ILOs?

OBE elements.....CIA

3. Assessment

WHAT assessment tasks (tests, assignments) would really tell us **how well students** have achieved the ILOs?

SO WHAT ?



AGENDA TRANSFORMASI NEGARA

GREAT NATION

2050

17

**WAWASAN
2020**

MISI NASIONAL

INNOVATIVE

INTEGRITY

RMKe-10

GTP

**MODEL
EKONOMI
BARU**

1MALAYSIA

SPEED

VALUE FOR MONEY

**TRANSFORMASI SEKTOR AWAM (2010 – 2015)
(TSA 15)**



WHY OBE in Poly?

- QUALITY and ACCOUNTABILITY in education
- OUTCOME -- the new education effectiveness currency
 - HE Sector-wide movement from TE to OBE
 - MQA requirement is based on OBE philosophy

WHY OBE?Transformasi Poly

□ OBJEKTIF

“.....menghasilkan graduat berkualiti yang berdaya usahawan (*enterprising*), berkebolehpasaran tinggi dan berdaya saing”

JPP 2009: 14

□ HASIL ke2 (2105)

“ *Employable/entrepreneurial graduates* “

Ibid:37

□ KPI 2 (2020)

85% graduat politeknik mendapat pekerjaan (termasuk melanjutkan pelajaran)

ibid:70

The need to implement OBE



Undergraduate curriculum needs to be transformed into OBE in accordance with requirements from:

1. Engineering Accreditation Council (EAC), Malaysia
2. Malaysian Qualification Framework (MQF)
introduced by the Ministry of Higher
Education (MOHE), Malaysia

NOW WHAT ?




Graduan



- Mentaliti Kelas Pertama
- Visi JPP: Menjana modal insan inovatif melalui **pendidikan dan latihan transformational** bagi memenuhi keperluan tenaga global menjelang 2015
- memiliki 7 Generic Skill Attributes (GSA)
- Menjayakan Model Ekonomi Baharu berteraskan inovasi dan kreativiti

What are expected of students under OBE?

- 
- Students are expected to be able to do more challenging tasks other than memorise and reproduce what was taught.
 - Students should be able to: write project proposals, complete projects, analyse case studies, give case presentations, show their abilities to think, question, research, and make decisions based on the findings.

OBE expectations (cont.)



- Students are also expected to be creative, able to analyse and synthesise information able to plan and organise tasks, able to work in a team as a community or in entrepreneurial service teams to propose solutions to problems and market their solutions

Assessments in OBE



- The learning outcomes are set out sequentially on a gradation of increasing complexity that students are expected to master.
- OBE focuses on how much and how well the students have learnt.

Weaker students may have to follow a different learning path & finish later.

HOW?..... Constructive Alignment (CA)



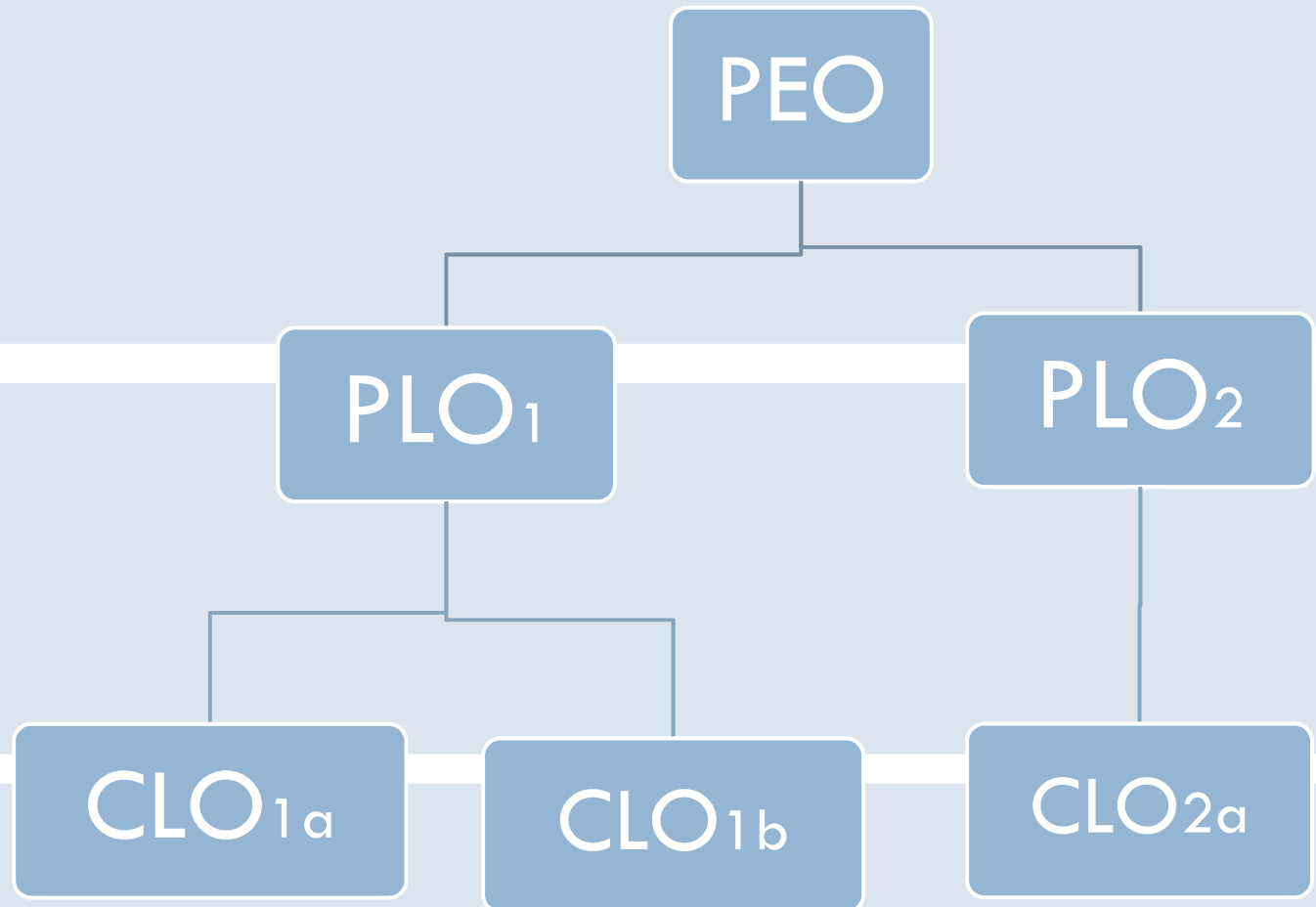
- **Constructive** – students construct meaning through relevant learning activities
- **Alignment** – educators design TLAs and ATs that are aligned to the ILOs. Best achieved by designing TLAs and ATs that activate the same ILO verbs.

Aligning PEOs PLOs , CLOs

GLO/Institutional
LO/Programme
Educational
Objectives (PEO)
address society
demand ? **GAPs?**

Program Learning
Outcomes (PLOs)
address
PEOs/GLO/Institutional
LOs? **GAPs?**

Course Learning
Outcomes
(CLOs) address
PLOs? **GAPs?**



PEO, PLO



- **PLO** are outcomes the students should have achieved by graduation time.
- **PEO** are objectives that have to be achieved by a graduate several years after graduation.

Has mastery of knowledge and skills needed to be an effective and efficient technician.

Has professional attitude and ethics in fulfilling his role.

Capable of adapting to the global work environment.

Capable of providing leadership in the organisation he works in.

Aligning CIA



Curriculum

What the student
has to learn
troubleshoot

Instruction

Engaging the
student in the
LO verb
troubleshoot

Assessment

How well
the student
has met the
LO
troubleshoot

“ HE Sector-wide movement from traditional education (TE) to OBE “

TE

OBE

- OUTcome Measure
- Outcome driven
- Student-centered
 - ▣ PBL, WBL, Case study, Projects, CL, internships, presentations, e-learning, mobile learning, OVDL
- Standard-referenced
- Potfolios, Journals, Rubrics

4OBE principles



“....if applied **consistently**,
systematically, **creatively** and
simultaneously would ensure that all
students were equipped with the
knowledge, competence and qualities
necessary for successful fulfilment of
their various life roles”

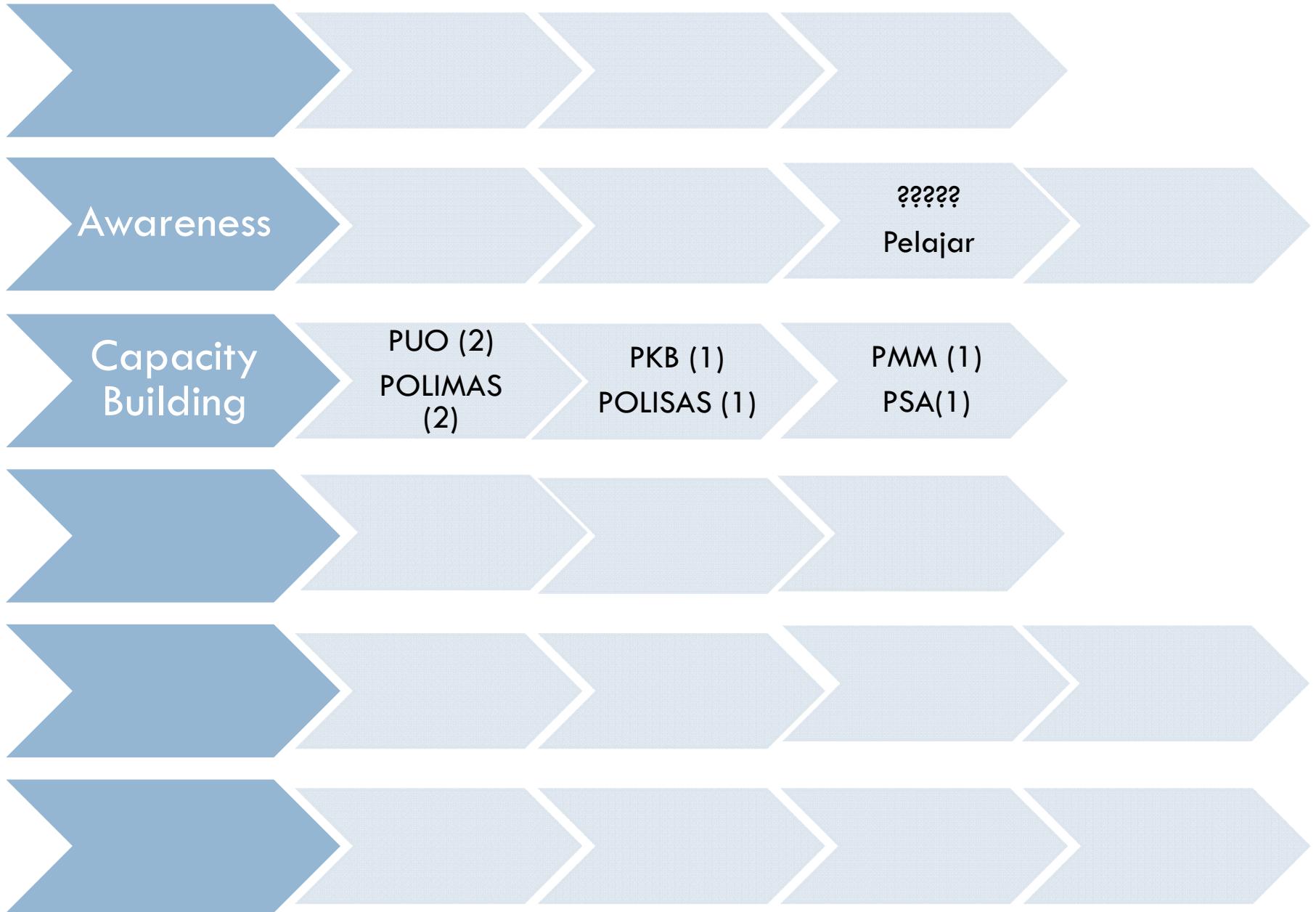
Systemic Implementation of CA

CA

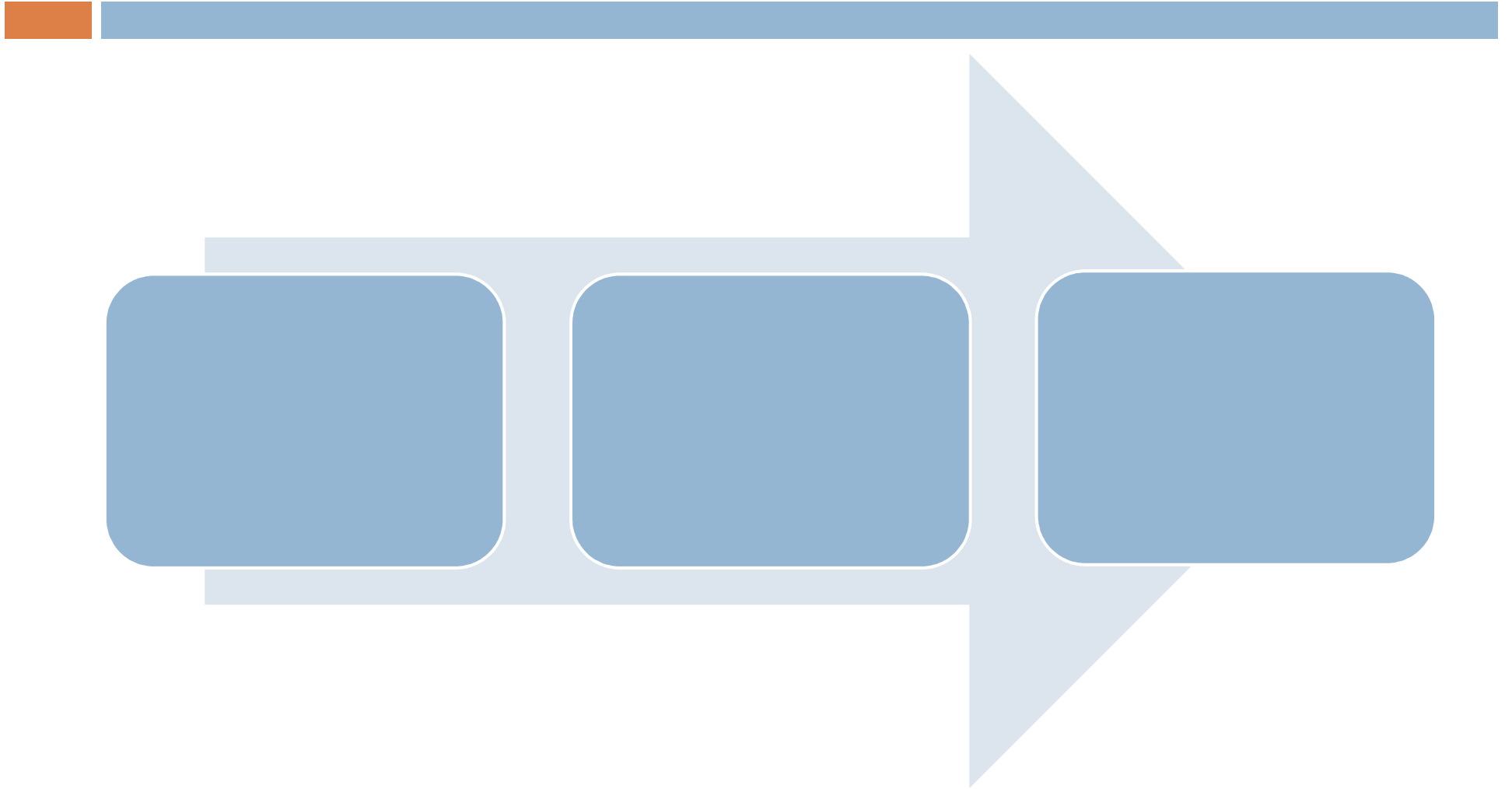
TP(A)/TP(SA)/
GLO/ILO
PLO/CLO
QA
Policy &
Procedure
Unit Q

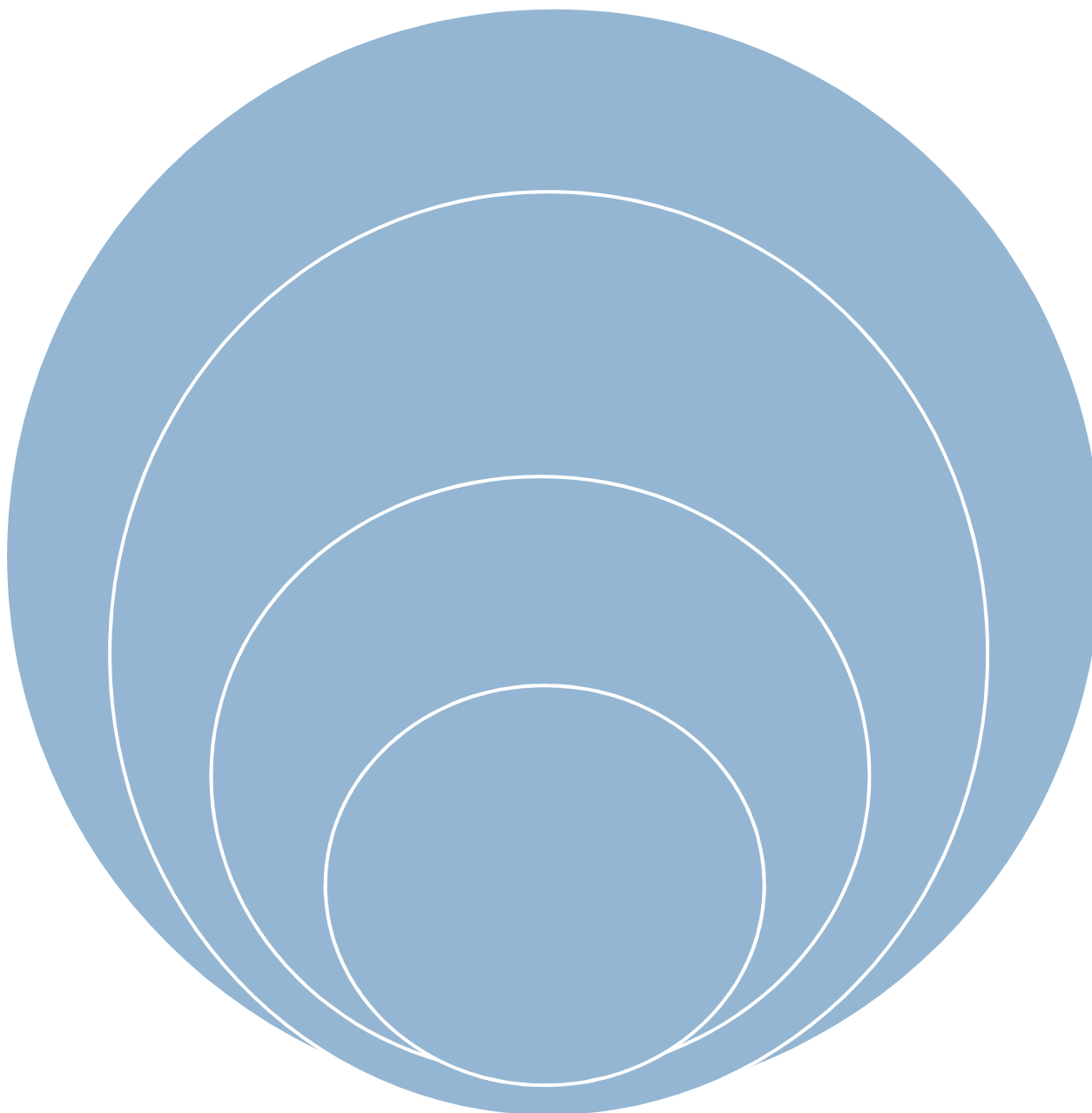
TP(A)/KJ
Program
Design
&
Management
ULPL/UMS/
UICT

/KJ/KP/lecturers
TLAs
ATs
Reflective Practice
ULPL/R&D/UBK/
UMS/UICT/UKK



The Approach....













OBE & Quality Management



- OBE is implemented to ensure that our academic programmes, delivery system, assessment methods and our graduates are of high quality.
- The paradigm shift to OBE is driven by the the Quality Assurance Department at the Ministry of Higher Education, Malaysia currently known as Malaysia Quality Agency (MQA).



CIDOS WEBSITE

 Curriculum Information Document Online System

    Page  Safety  Tools 

CURRICULUM DEVELOPMENT AND EVALUATION DIVISION

DEPARTMENT OF POLYTECHNIC AND
COMMUNITY COLLEGE EDUCATION



ENDLESS INNOVATION

You are not logged in. ([Login](#))


Login

Username:

Password:

[Create new account](#)
[Lost password?](#)

Main Menu

 Site news

**BAHAGIAN PEMBANGUNAN
DAN PENILAIAN
KURIKULUM**



**Mengucapkan Ribuan
Terima Kasih**

CIDOS: Curriculum Information Document Online System

Perhatian : Kepada SEMUA pelajar yang ingin menjawab soal-selidik bagi KAJIAN PERSEPSI KURIKULUM POLITEKNIK, jika senarai *Modul (Kursus)* tidak dapat dipaparkan pada ruang tengah program, sila klik pada Feedback Activities yang terdapat pada blok Activities di sebelah kiri antaramuka soal-selidik. Sebarang kesulitan amat dikesali.

Pelajar dinasihatkan tidak **mendaftar semula** username ...kerana anda semua telah didaftarkan, dapatkan username dan password dari Pegawai HEP Politeknik anda.

Terima kasih.

 Berikut disertakan manual pengguna bagi Kajian Persepsi Kurikulum Politeknik
 Berikut Adalah Manual Untuk Kajian Penilaian Kurikulum Untuk Pensyarah


Calendar

March 2010



Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Online Users

(last 5 minutes)

 admin CIDOS

Activities

 Chats
 Forums

CIDOS E-LEARNING

Department of Polytechnic Education
CIDOS e-Learning
Towards successful learning

You are logged in as Admin PCT (Logout)

English (en) ▼

Site Administration

- Notifications
- Users
- Courses
- Location
- Language
- Modules
- Security
- Appearance
- Front Page
- Server
- Reports
- Miscellaneous

Announcement

Turn editing on

JUST THINK TO LEARN ANYWHERE AND ANYTIME...
E-LEARNING IS THERE FOR YOU.

CIDOS
Curriculum Information Document Online System

Online Exam

Start 3 minutes ago

Marked failed

Add to Favourites

Admin Details: Admin User 1.01

Department of Polytechnic Education
CIDOS e-Learning
Towards successful learning

You are logged in as Admin PCT (Logout)

English (en) ▼

Turn editing on

Jabatan Kejuruteraan Elektrik (JKE)
Jabatan Kejuruteraan Awam (JKA)
Jabatan Kejuruteraan Mekanikal (JKM)
Jabatan Matematik Sains dan Komputer (JMSK)
Jabatan Hospitaliti (JH)
Jabatan Perdagangan (JP)
Jabatan Pengajaran Am (JPA)
Jabatan Kokurikulum (KOKUM)

CIDOS
Curriculum Information Document Online System

Site Administration

- Notifications
- Users
- Courses
- Location
- Language
- Modules
- Security
- Appearance
- Front Page
- Server

Department of Polytechnic Education
CIDOS e-Learning
Towards successful learning

You are logged in as Admin PCT PTMPSD (Logout)

English (en) ▼

Site Administration

- Notifications
- Users
- Courses
- Location
- Language
- Modules
- Security
- Appearance
- Front Page
- Server
- Networking
- Reports
- Miscellaneous

Announcement

Turn editing on

Now courses open for registration:

Courses (1) (Immediate)	Start	End
Courses 1	01 Jan 2010	01 Jan 2010
Courses 2	01 Jan 2010	01 Jan 2010
Courses 3	01 Jan 2010	01 Jan 2010

Course categories

CIDOS
Curriculum Information Document Online System

Calendar

February 2010

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28						

Department of Polytechnic Education
CIDOS e-Learning
Towards successful learning

You are logged in as Admin PCT (Logout)

English (en) ▼

Turn editing on

Selamat Datang

IDOS E-LEARNING

Diketahui CIDOS e-Learning dapat membantu komunikasi yang lebih berkesan antara penyertaan dan pengiraan proses Pengiraan & Pembelajaran. Semoga dapat membantu anda dalam belajar.

Course categories

General Studies Department

CIDOS
Curriculum Information Document Online System

Calendar

February 2010

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28						

Department of Polytechnic Education
CIDOS e-Learning
Towards successful learning

You are logged in as Admin PCT (Logout)

English (en) ▼

Turn editing on

Welcome to PTSB CIDOS e-Learning

Dear PTSD students

Welcome to PTSB CIDOS e-Learning. I wish you all enjoy using this application during your life study in Politeknik Sultan Idris Shah. Providing you with a comprehensive learning environment is our priority. Hoping to see your success in both your educational and personal life.

Regard,
KAMARUDIN BIN TAMER
Dewan
Politeknik Sultan Idris Shah
KEDAH DARUL AMAN

CIDOS
Curriculum Information Document Online System

Online Exam

Add a new topic

7 Jan 01:33

Subject: MGS PTSD can be fully utilized more. Other topics...

Department of Polytechnic Education
CIDOS e-Learning
Towards successful learning

You are logged in as Admin PCT (Logout)

English (en) ▼

Turn editing on

POLITEKNIK SULTAN IDRIS SHAH, SABAK BERNAM

Curriculum Information Document Online System (CIDOS)

Markawat Taktik...

KAJIAN PENGESKIPAN PELAJAR DAN PENGIKIPAN
Bagian Pendidikan dan Penyelidikan (PPPP) sedang mengadakan satu Kajian Penyelidikan bagi Muktamad Program Pengiraan Politeknik pada 1 November - 17 Disember 2009. Kajian ini bertujuan untuk mengetahui keberkesanan dan keberkesanan...

CIDOS
Curriculum Information Document Online System

Course categories

- Jabatan Kejuruteraan Awam
- Jabatan Kejuruteraan Elektrik
- Jabatan Kejuruteraan Mekanikal
- Jabatan Matematik Sains dan Komputer
- Jabatan Hospitaliti
- Jabatan Perdagangan
- Jabatan Pengajaran Am
- Jabatan Kokurikulum

Search course

All courses

Resources

- Biggs, J. B. and Tang, C. (2007, 3rd edition) Teaching for Quality Learning at University, Maidenhead, UK: Open University Press/McGraw Hill, 2007.
- Ibid. Constructive Alignment. AKEPT Quality Teaching in Higher Education Workshop on February 23, 2010
- Demoken, Suleyman. Developing the Preferred Graduates: Our Experience at HK PolyU, Fifth QS Asia Pacific Professional Leaders In Education Conference And Exhibition on November 24, 2009.
- Khodori (2010), *OBE, OBC & OBA Bengkel Pengembangan dan Pentaksiran k kurikulum* on 17-19 Feb 2010.
- Killen, R. (2000). Outcome-based Education: Principles and Possibilities. University of Newcastle, Faculty of Edu

General Descriptions of CA

- <http://senate.gla.ac.uk/academic/assessment/index.html>
- www.scu.edu.au/services/tl/sdonline/consalign.html
- www.engsc.ac.uk/er/theory/constructivealignment.asp
- CELT at HKULST

OBE Institutional Practices

- University of Glasgow
- Hong Kong Polytechnic University
- <http://www.cdtl.nus.edu.sg>