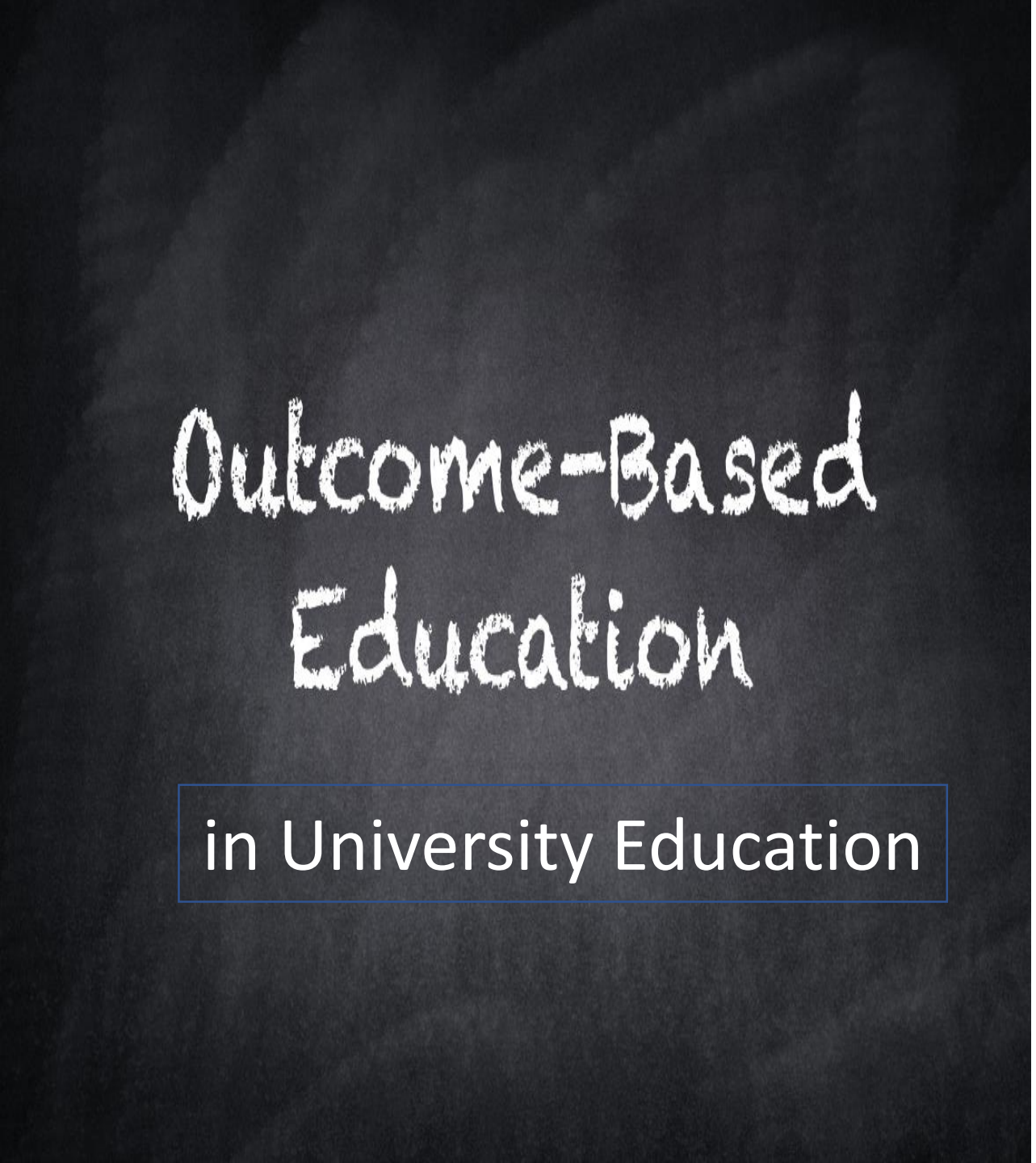


Dr Jamilah Al-Muhammady binti Mohammad
Department of Medical Education
School of Medical Sciences

Presentation Outline

A›

B›

C›

PART A

OBE concept

PART B

OBE Practice in USM and PPSP

PART C

Integration of ISO and OBE

OBE concept

What is Outcome Based Education (OBE)

Outcome-Based Education is an approach that focuses on the attainment of intended learning outcomes where students develop behaviours that are authentic to their discipline and are assessed holistically within the context of their learning.

What is Outcome Based Education (OBE)

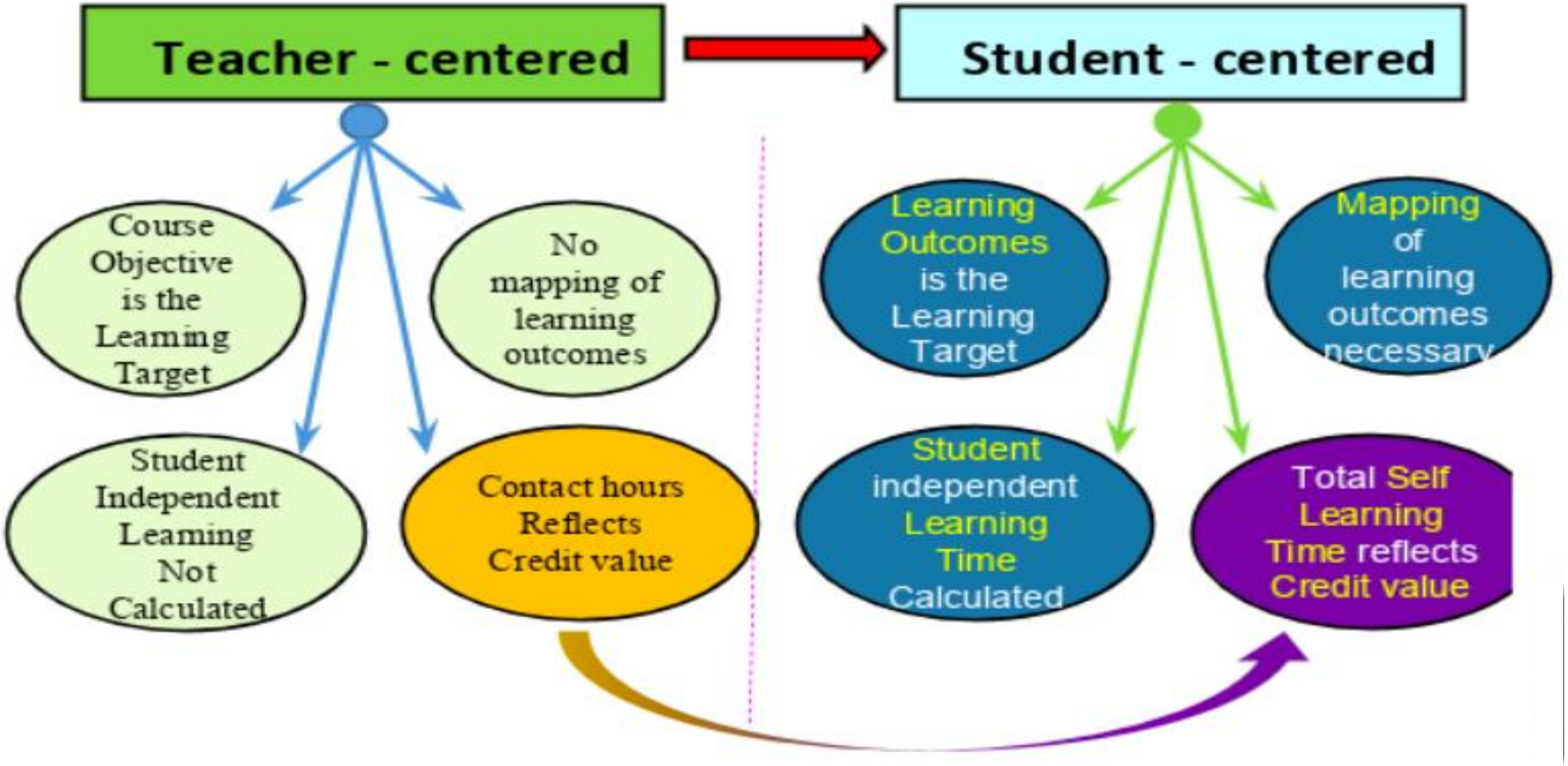
OBE means starting with a clear picture of what is important for students to be able to do, then organizing the curriculum, instruction, and assessment to make sure that his learning ultimately happens.

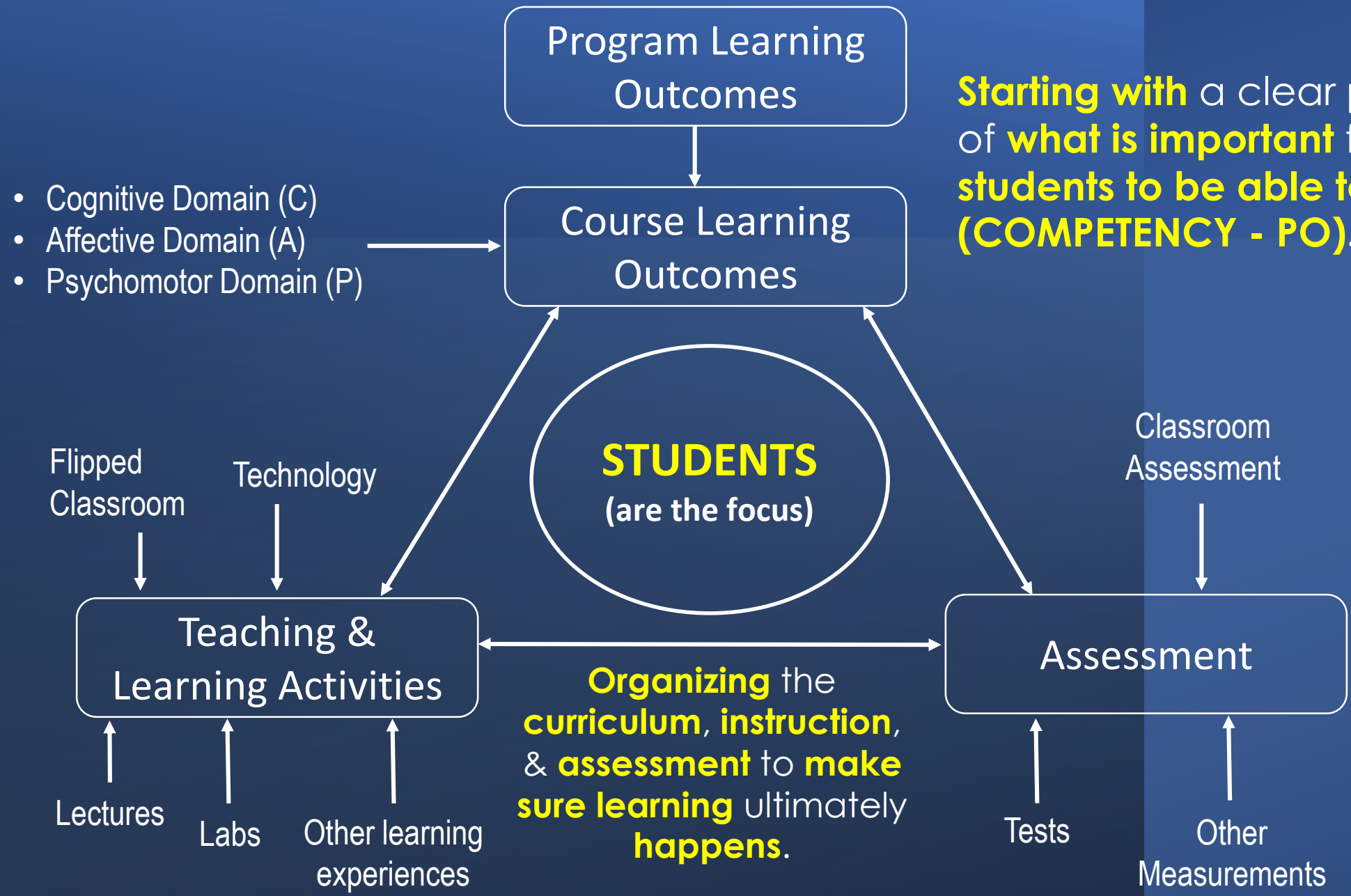
(Spady 1994)

Paradigm Shift from Traditional Education to Outcome-Based Education

Aspect	Traditional Education	Outcome-Based Education
Learner Attribute	Learners may be more passive, learn by rote with grade/mark in mind	Learners may be more active, learn with purpose/outcome in mind
Instructional Planning Process	Focus on the cognitive domain, with emphasis on learning materials and/or activities in class	Focus on the intended learning outcomes, i.e. cognitive, affective and psychomotor
Curriculum Design and Delivery	Prone to adhere to rigid syllabi, curriculum and textbook materials	Support attainment of learning outcomes using appropriate assessment tools/tasks
Assessment Methods	Use formative and summative assessment based on the norm and/or lecturer's preference	Facilitate student's learning and capabilities as evidence of attainment of course outcomes
Outcome Orientation	Produce learners with adherence to curriculum and delivery methods	Enhance active learning experience using assessment tasks with rubric

OBE is student-centered learning





Starting with a clear picture of **what is important** for **students to be able to do (COMPETENCY - PO).**

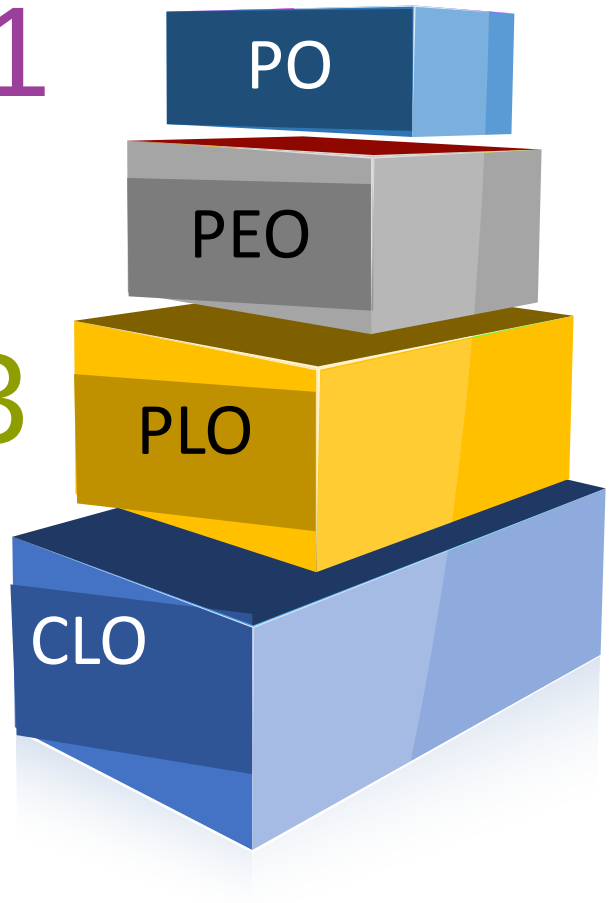
The Outcomes

Programme Outcome (PO)
- set by MQA (in MQF)
- version 2.0
- 5 POs

01

Programme Learning Outcomes (PLO)
- set by the institution (USM)
- USM has 11 PLOs

03



02

Programme Educational Objectives (PEO)
- set by the programme
- 3-5 years upon graduation
- what the programme is preparing graduates for their career & professional life.

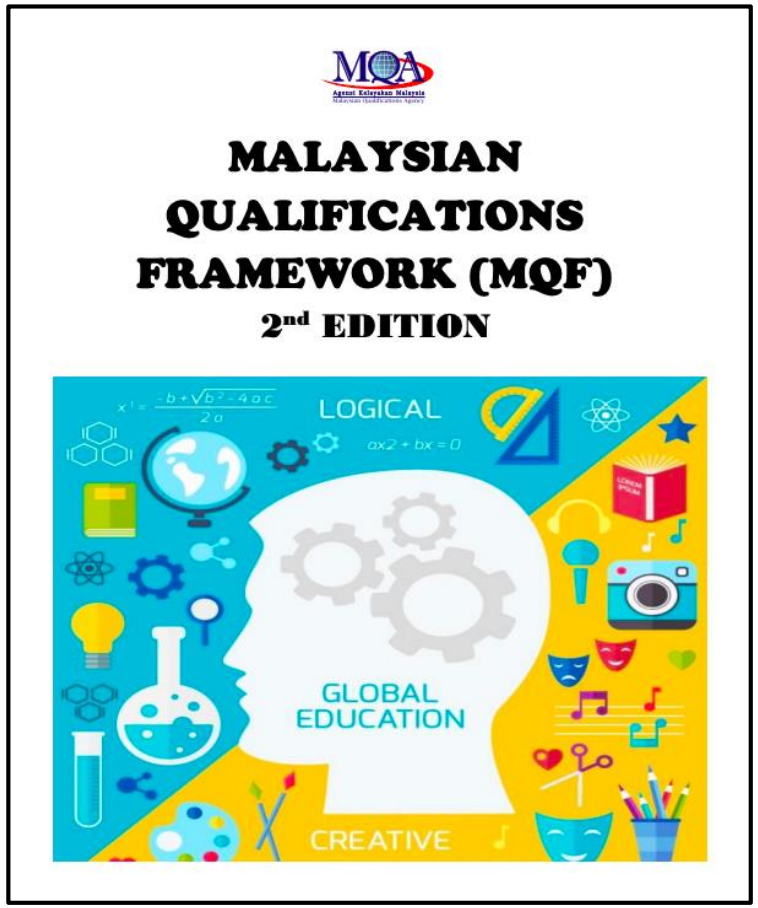
04

Course Learning Outcomes (CLO)
- set by course coordinators /lecturers
- aim 4-6 CLO

Why do we need to implement OBE?

- Requirement from Qualifications Bodies

Important documents



The framework is defined as *'...an instrument that develops and classifies qualifications based on a set of criteria that is agreed nationally and benchmarked with international practices, and which clarifies the academic levels learning outcomes and credit system based on student academic load'.* (MQF, 2007). It is an intended as a comprehensive, overarching and integrated

KANDUNGAN

Jawatankuasa Garis Panduan Pembangunan Program Akademik Universiti Awam (UA) Edisi Kedua		2
Prakata		5
Senarai Rajah		8
Senarai Jadual		9
Glosari		10
Singkatan		15
BAB 1 PENDAHULUAN		
1.1	Pengenalan	17
1.2	Konsep Pendidikan Berasaskan Hasil (*Outcome Based Education, OBE*)	18
1.2.1	Penjajaran Konstruktif	
1.2.2	Jam Pembelajaran Pelajar (*Student Learning Time, SLT*)	
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1.4	Reka Bentuk Kurikulum	25
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Agensi Kelayakan Malaysia
Malaysian Qualifications Agency

Code of Practice for
PROGRAMME ACCREDITATION
SECOND EDITION

Section 2: Criteria and Standards for Programme Accreditation

INTRODUCTION

Area 1: Programme Development and Delivery
- 1.1 Statement of Educational Objectives of Academic Programme and Learning Outcomes
- 1.2 Programme Development: Process, Content, Structure and Learning-Teachin Methods
- 1.3 Programme Delivery

Area 2: Assessment of Student Learning
- 2.1 Relationship between Assessment and Learning Outcomes
- 2.2 Assessment Methods
- 2.3 Management of Student Assessment

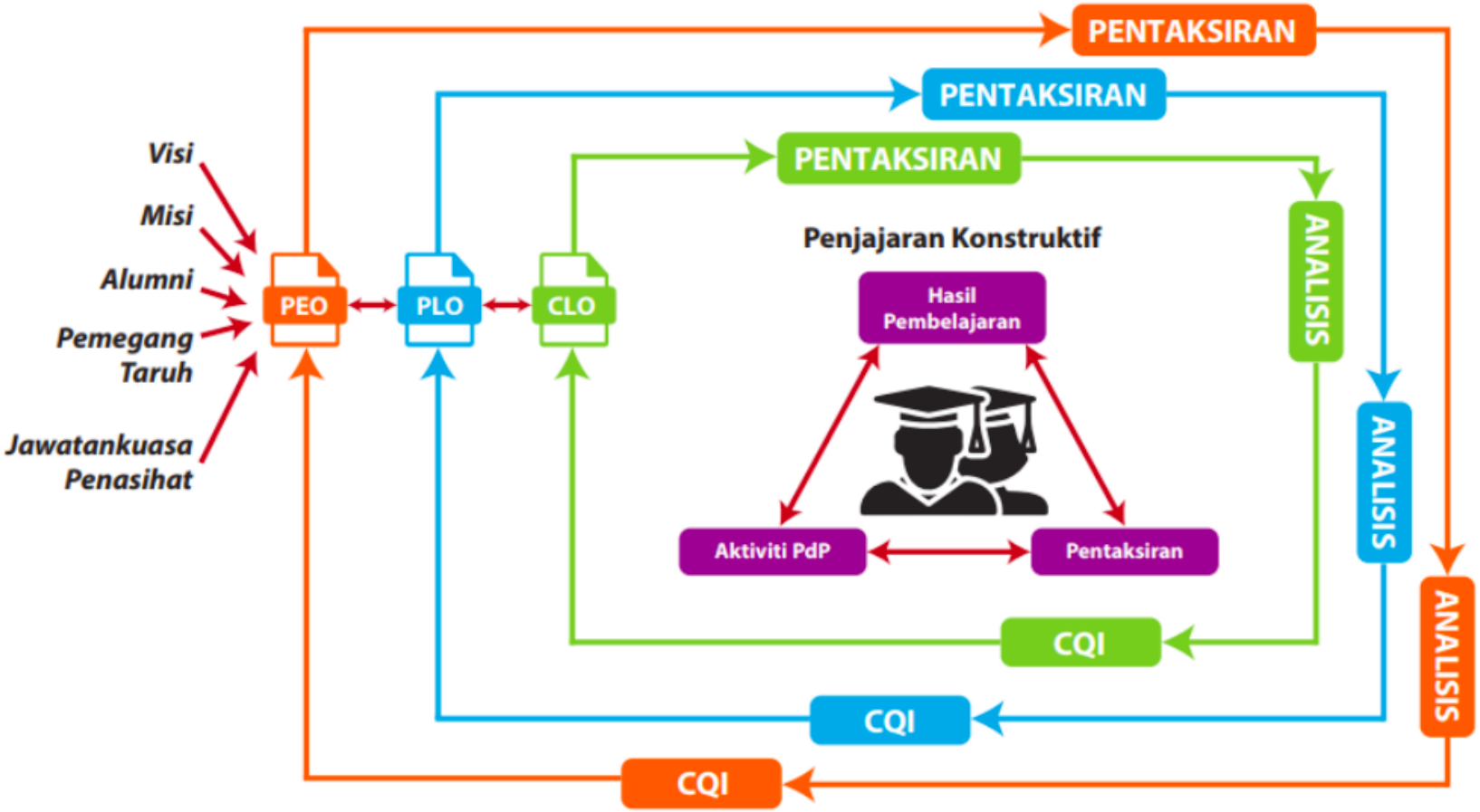
Area 3: Student Selection and Support Services
- 3.1 Student Selection
- 3.2 Articulation and Transfer
- 3.3 Student Support Services
- 3.4 Student Representation and Participation
- 3.5 Alumni

Area 4: Academic Staff
- 4.1 Recruitment and Management
- 4.2 Service and Development

Area 5: Educational Resources
- 5.1 Physical Facilities
- 5.2 Research and Development
- 5.4 Financial Resources

Area 6: Programme Management
- 6.1 Programme Management
- 6.2 Programme Leadership
- 6.3 Administrative Staff
- 6.4 Academic Records

Area 7: Programme Monitoring, Review and Continual Quality Improvement
- 7.1 Mechanisms for Programme Monitoring, Review and Continual Quality Improvement



Rajah 1.1: Konsep OBE Secara Keseluruhan

Resource: Garis panduan Pembangunan Program Akademik Universiti Awam (2018)

Programme Outcome (PO) by MQF 2.0 (2018)

Knowledge and understanding

Cognitive skills

Functional work skills with focus on:

3.1 Practical skills
3.2 Interpersonal skills
3.3 Communication skills
3.4 Digital skills
3.5 Numeracy skills
3.6 Leadership, autonomy and responsibility

Ethics and professionalism

Personal and entrepreneurial skills

Programme Outcome (PO) by MQF 2.0 (2018)

Knowledge and understanding

Cognitive skills

Functional work skills with focus on:

a) Practical skills
b) Interpersonal skills
c) Communication skills
d) Digital skills
e) Numeracy skills
f) Leadership, autonomy and responsibility

Ethics and professionalism

Personal and entrepreneurial skills

New PLO

USM (2020)	MQF 2.0 Learning Domains		Learning Taxonomy
PLO1	Knowledge and understanding	Cluster 1	C
PLO2	Practical Skills	Cluster 3(a)	P
PLO3	Cognitive Skills	Cluster 2	C
PLO4	Communication Skills	Cluster 3(c)	A
PLO5	Interpersonal Skills	Cluster 3(b)	A
PLO6	Ethics dan Professionalisme	Cluster 5	A
PLO7	Personal Skills	Cluster 4(a)	A
PLO8	Entrepreneurial Skills	Cluster 4(b)	A
PLO9	Leadership, Autonomy and Responsibility	Cluster 3(f)	A
PLO10	Digital Skills	Cluster 3(d)	C/P/A
PLO11	Numeracy Skills	Cluster 3(e)	C/P/A

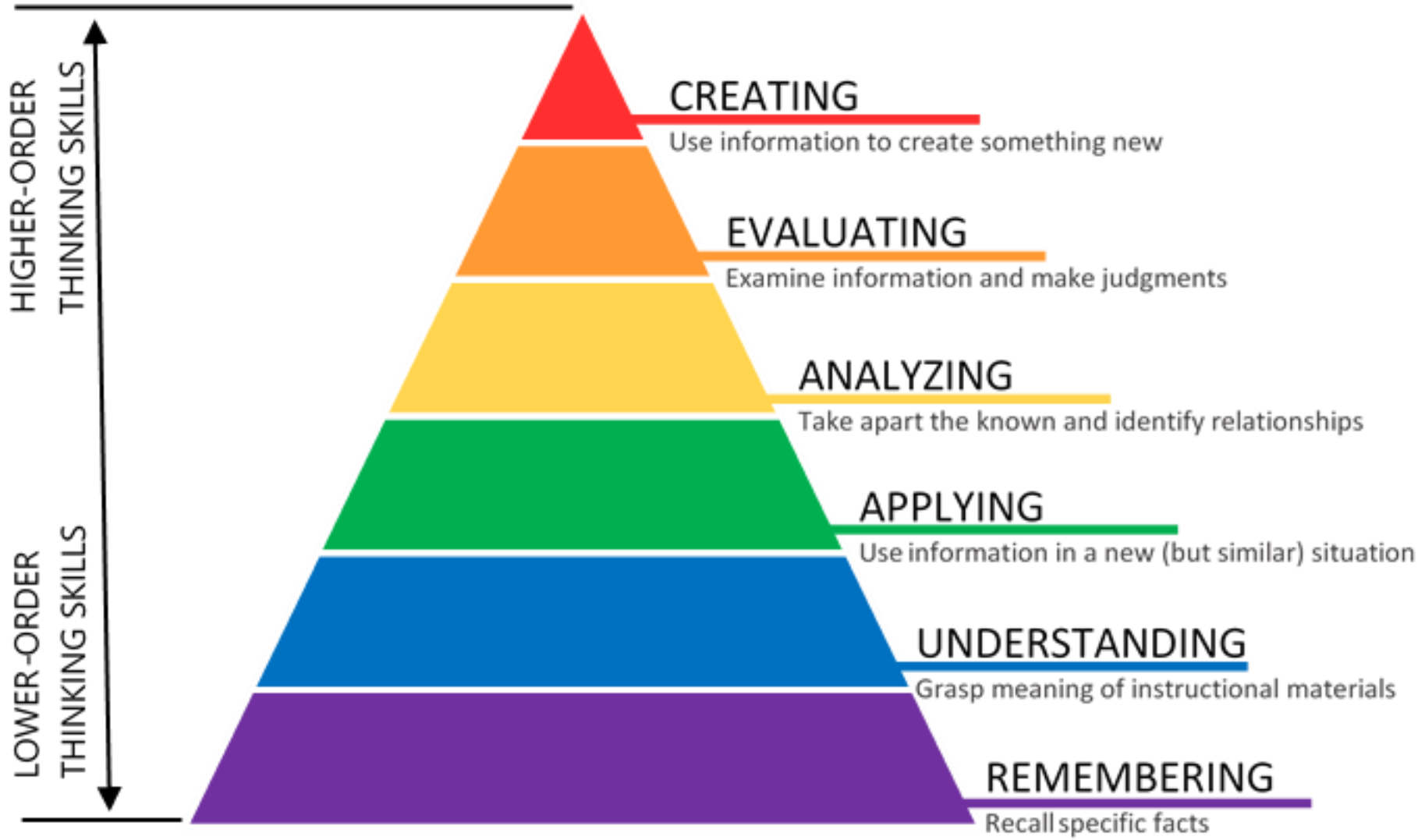
Cognitive Domain

Psychomotor Domain

Affective Domain

Learning outcomes

BLOOM'S TAXOMONY – COGNITIVE DOMAIN (2001)



Psychomotor Domain

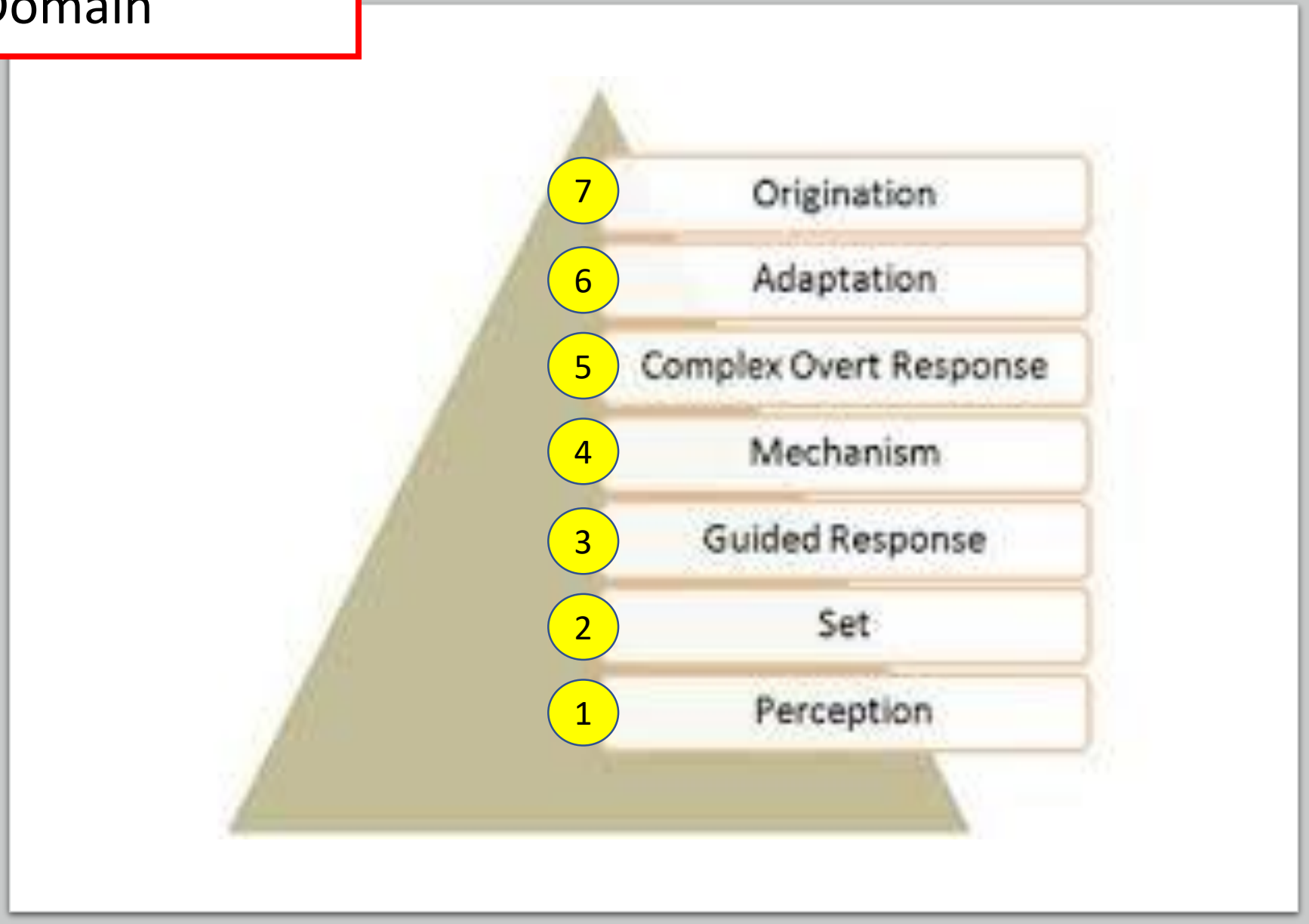


Table 3 Psychomotor Domain

Level	Characteristic	Some Verbs
Perception / Observing	Here the student is simply observing the procedure	Observe Listen Detect
Guided Response / Imitation	The student can follow instructions but needs to be instructed	Copy React Follow Reproduce
Mechanism	This is an intermediate stage where proficiency and confidence are growing	Organise Manipulate
Complex response	Proficiency has grown and performance is quick and accurate with little or no hesitation	The verbs are essentially the same as Mechanism, but modified by 'accurately' or 'quickly'
Adaptation	The student has such ability that they can combine and integrate related aspects of the skill without guidance	Reorganise Alter Rearrange Vary Internalise
Origination	The student has internalized automatic mastery of the skill	Compose Construct Design Initiate Create

2. Affective Domain

The 'Taxonomy Of Educational Objectives: Handbook II, The Affective Domain' (Bloom, Masia, Krathwohl)

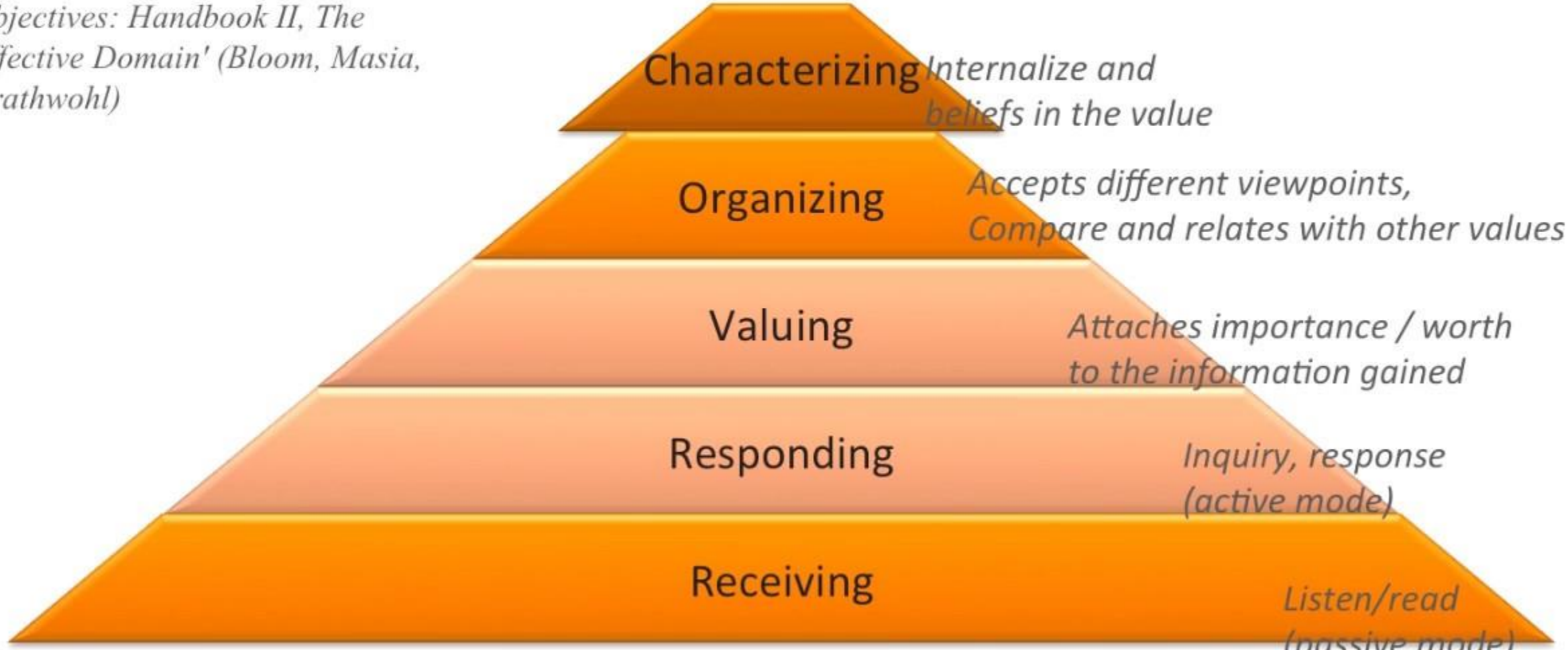


Table 2: Affective Domain

Level	**Characteristic**	**Some Verbs**
Receiving	Developing awareness of ideas and phenomena	Ask Follow Reply Accept Prefer
Responding	Committing to the ideas etc by responding to them	Answer Recite Perform Report Select Follow Explore Display
Valuing	Being willing to be seen as valuing certain ideas or material	Justify Propose Debate Relinquish Defend Initiate
Organization and Conceptualisation	To begin to harmonise internalized values	Arrange Combine Compare Balance Theorize
Characterisation by Value	To act consistent with the internalised values	Discriminate Question Revise Change

OBE Practice in USM and PPSP

LAWATAN AUDIT PEMATUHAN SWAAKREDITASI AGENSI KELAYAKAN MALAYSIA (MQA) 8,9 DAN 14 FEBRUARI 2022

UNIVERSITI SAINS MALAYSIA MQA/SA/0002

GARIS MASA AUDIT PEMATUHAN SWAAKREDITASI

*** Bagi tujuan persediaan, aktiviti berkaitan OBE telah dijalankan sepanjang tahun 2020 & 2021**

AKTIVITI BERKAITAN OBE (TAHUN 2020)

	Aktiviti	PTJ Terlibat	Tarikh
1	ToT Semakan Amalan OBE	Semua Pusat Pengajian K. Induk	10 – 11 Jan. 2020
2	Audit Fasa 1 (Semakan Amalan OBE)	7 Pusat Pengajian	31 Jan – 07 Feb. 2020
3	Audit Fasa 2 (Semakan Amalan OBE)	16 Pusat Pengajian + Pusat Ko-K	12 Feb. – 28 Feb. 2020
4	Audit Fasa 3 (Semakan Amalan OBE)	19 Pusat Pengajian + Pusat Ko-K	27 Ogos – 28 Sept. 2020
5	Bengkel BPK & Pemetaan MQF 2.0	Semua Pusat Pengajian (K. Induk & Kejuruteraan)	4,9 dan 11 Sep. 2020
6	Bengkel CO PO Attainment	Semua PTJ	25 Sept. 2020
7	Bengkel Amalan OBE utk Program PG	Pusat / Institut	8 Okt. 2020
8	Bengkel BPK & Pemetaan MQF 2.0	Kampus Kesihatan	28 Okt. 2020

AKTIVITI BERKAITAN OBE (tahun 2021)

	Aktiviti	PTJ terlibat	Tarikh
1	Taklimat JK OBE PTJ	Semua PTJ	18 Jan. 2021
2	Semakan 1009 BPK Sem 2 SA 2020/2021	Semua PTJ	28 Jan – 01 April 2021
3	Sesi Penyelarasan Semakan BPK	Panel Semakan BPK	05 Ogos 2021
4	Sesi Pemantapan TOR JK IQA PTJ	Empat orang panel	13 Ogos 2021
5	Bengkel CO PO Attainment	Semua PTJ	19 Ogos 2021
6	Bengkel CO PO Attainment	PTPM & ISDEV	15 Sept. 2021
7	Semakan Kendiri Amalan OBE	Setiap PTJ	13 – 31 Okt. 2021
8	Audit Fasa 4 (Semakan Amalan OBE)	4 PTJ (program PG Pusat/Institut)	22 Okt – 30 Nov. 2021

JK OBE 2022

Jawatankuasa Outcome-Based Education, Pusat Pengajian Sains Perubatan

Penasihat	:	Profesor Dr Abdul Razak Sulaiman
Pengerusi	:	Dr. Jamilah Al-Muhammady Mohammad
Timbalan Pengerusi I	:	Prof. Madya Dr. Zul Izhar Mohd Ismail
Timbalan Pengerusi II	:	Dr. Farizan Ahmad

Ahli Jawatankuasa

1.	Prof. Madya Dr. Kamarul Aryffin Baharuddin	:	Timbalan Dekan (Akademik, Kerjaya & Antarabangsa)
2.	Prof. Dr Irfan Mohamad	:	Timbalan Dekan (Pengajian Siswazah & Latihan Ikhtisas)
3.	Prof. Madya Dr. Nazri Mustaffa	:	Penyelaras Sarjana (Asas Perubatan)
4.	Prof. Madya Dr. Azian Harun	:	Penyelaras Sarjana (Asas Makmal)
5.	Dr. W Muhamad Mokhzani W Muhamad Mokhter	:	Penyelaras Sarjana (Asas Surgeri)
6.	Prof Madya Dr Muhammad Farid Johan		Penyelaras Program (Sarjana dan PhD)
7.	Prof Madya Dr Muhamad Saiful Bahri Yusoff	:	Ketua Jabatan Pendidikan Perubatan
8.	Dr Seoparjoo Azmel Mohd Isa	:	Penyelaras Fasa I Program Doktor Perubatan
9.	Prof. Madya Dr. Ismail Munajat		Penyelaras Fasa II (Tahun 3 dan 4) Program Doktor Perubatan
10.	Prof. Madya Dr. Nik Ahmad Zuky Nik Lah	:	Penyelaras Fasa II (Tahun 5) Program Doktor Perubatan
11.	Dr. Nurhanis Syazni Roslan	:	Pengerusi Peperiksaan
12.	Dr. Muhd Al-Aarifin Ismail	:	Penyelaras e-Learning
13.	Pn. Noraida Yusof	:	Penolong Pendaftar Kanan Bahagian Akademik
14.	Pn. Siti Zubaidah Abdullah	:	Penolong Pendaftar Kanan Bahagian Siswazah
15.	Pn. Wan Nur Fajrina Wan Azmi	:	Penolong Pendaftar Kanan Bahagian Pengurusan Peperiksaan

Senarai semak Fail Kursus OBE

SENARAI SEMAK AUDIT FAIL KURSUS OBE

SEMESTER ____ SIDANG _____

Kod & Nama Kursus :
Pusat Pengajian :
Penyelaras Kursus :

KOMPONEN FAIL KURSUS			
1	Borang Penawaran Kursus (BPK)	**Ada** ☐	**Tiada** ☐
2	Pemetaan Kursus - PO	**Ada** ☐	**Tiada** ☐
3	Pelan Pengajaran / Pelan Kursus	**Ada** ☐	**Tiada** ☐
4	Senarai Pelajar (dari CLA)	**Ada** ☐	**Tiada** ☐
5	Senarai Kehadiran (online/manual)	**Ada** ☐	**Tiada** ☐
6	Nota Kuliah – *hardcopy ,elearn screenshots, softcopy*	**Ada** ☐	**Tiada** ☐
7	Instrumen Penilaian Kerja Kursus mengikut BPK (cth: ujian, kuiz, tugasan, rubrik)	**Ada** ☐	**Tiada** ☐
8	Skema Jawapan Kerja Kursus Pelajar (cth: utk ujian)	**Ada** ☐	**Tiada** ☐
9	Sampel Kerja Kursus Pelajar (3 terbaik, 3 sederhana, 3 lemah)	**Ada** ☐	**Tiada** ☐
10	Vetting (i) Salinan Borang Vetting kertas peperiksaan akhir a. Jadual Spesifikasi/Penentuan Ujian b. Senarai Semak / Ulasan Panel Vetting (ii) Skema Pemarkahan	 **Ada** ☐ **Ada** ☐ **Ada** ☐	 **Tiada** ☐ **Tiada** ☐ **Tiada** ☐
11	Sampel Kertas Peperiksaan Akhir (i) Versi Draf (ii) Versi Akhir	 **Ada** ☐ **Ada** ☐	 **Tiada** ☐ **Tiada** ☐
12	Skema Jawapan Peperiksaan Akhir	**Ada** ☐	**Tiada** ☐
13	Sampel Skrip Jawapan Pelajar (3 terbaik, 3 sederhana, 3 lemah)	**Ada** ☐	**Tiada** ☐
14	Analisis Kerja Kursus & Peperiksaan (dari Mesy. Majlis Pemeriksa)	**Ada** ☐	**Tiada** ☐
15	Penilaian Kursus (i) Penilaian Pelajar terhadap Kursus (ii) CO *Attainment* (jika ada)	 **Ada** ☐ **Ada** ☐	 **Tiada** ☐ **Tiada** ☐
16	Lain-lain (i) Surat Ketidakhadiran Pelajar (ii) Surat Amaran (iii) Surat Penghalangan Peperiksa		
17	Peningkatan Kualiti Berterusan, CQI ku Penambahbaikan berdasarkan CO *Atta*		

Disediakan oleh: (Penyelaras Kursus)	**Disemak oleh:** (Pengerusi Rancangan / TDA)
Tandatangan:	**Tandatangan:**
Tarikh:	**Tarikh:**

Nota: Bahan-bahan bagi Item 10 – 14 perlu diasin berkaitan peperiksaan

OBE Course File Components

KOMPONEN FAIL KURSUS	
1	Borang Penawaran Kursus (BPK)
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17	Peningkatan Kualiti Berterusan, CQI kursus (jika ada) – Penambahbaikan berdasarkan CO *Attainment*

Steps of OBE Course Fail formation and storage

Undergrad:
Phase 1 & 2 Chairperson create OneDrive/ Teams folder for OBE Course file

Postgrad (MMCW):
Program coordinators create OneDrive/ Teams folder for OBE Course file

Create separate folders for 17 components of OBE Course File

Phase 1 & 2 Chairperson / Program coordinators do the final checking before submission for internal audit

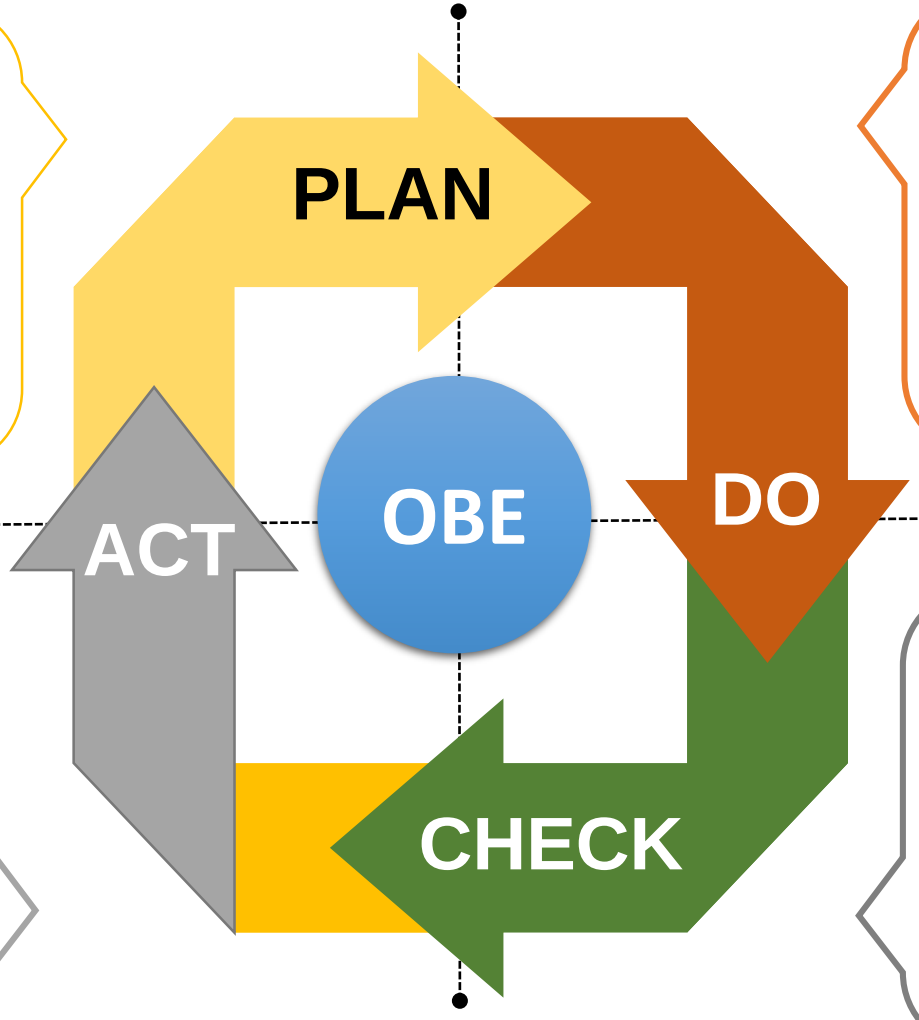
Course coordinators of both UG and PG programs upload documents in the folder

Integration of ISO and OBE

Integration:

ISO Clause & OBE Course File Items

4. Context of the organization
5. Leadership
6. Planning
7. Support

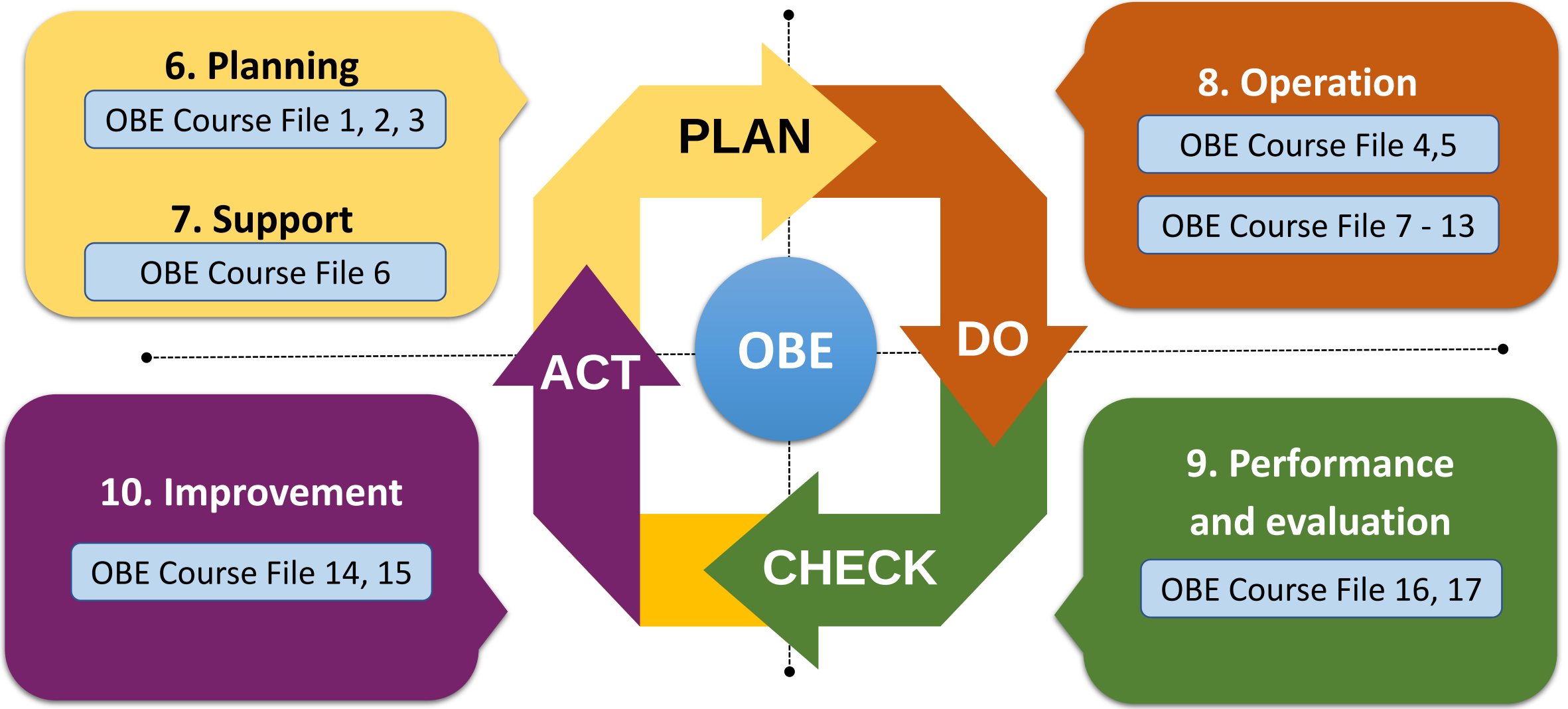


8. Operation

9. Performance and evaluation

10. Improvement

Integration:
ISO Clause & OBE Course File Items



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17	Peningkatan Kualiti Berterusan, CQI kursus (jika ada) – Penambahbaikan berdasarkan CO *Attainment*

UNDERGRADUATE – Doctor of Medicine (MD) Program

Code Name: GMT

YEAR	1	2	3	4	5
LEAD BY	Phase 1 Chairperson: **Dr Seoparjoo Azmel Mohd Isa**	Phase 1 Chairperson: **Dr Seoparjoo Azmel Mohd Isa**	Phase 2 Chairperson: **AP Dr Ismail Munajat**	Phase 2 Chairperson: **AP Dr Ismail Muna**jat	Phase 2 Chairperson: **AP Dr Nik Ahmad Zuky Nik Lah**
PIC of Course File	Course Coordinators	Course Coordinators	Course Coordinators	Course Coordinators	Course Coordinators
No. of courses	8	9	5	10	8
	Inter-departmental based	Inter-departmental based	Departmental based	Departmental based	Departmental based

POSTGRADUATE - Mixed Mode and Course Work programs @ School of Medical Sciences,

Program	Department/Unit	Mixed mode	Course work
1. Master of Science (Clinical Anatomy)	Anatomy	/	
2. Master of Science (Medical Education)	Medical Education	/	
3. Master of Science (Medical Statistics)	Biostatistics and Research Methodology	/	
4. Master of Neuroscience (INP)	Neurosciences	/	
5. Doctor of Neuroscience	Neurosciences	/	
6. Doctor of Public Health (Epidemiology)	Community Medicine	/	
7. Doctor of Public Health (Environmental and Occupational Health)	Community Medicine	/	
8. Doctor of Public Health (Family Health)	Community Medicine	/	
9. Doctor of Public Health (Health System Management)	Community Medicine	/	
10. Master of Public Health	Community Medicine		/
11. Master of Cognitive Neurosciences	Neurosciences		/
12. Master of Clinical Psychology	Neurosciences		/
13. Doctor of Psychology (Clinical Psychology)	Neurosciences		/
14. Doctor of Psychology (Clinical Neuropsychology)	Neurosciences		/

PPSP

CENTRAL

- ADMINISTRATION
- POSTGRADUATE
- UNDERGRADUATE
- RESEARCH & INNOVATION

DEPARTMENT

- ANAESTHESIOLOGY
- ANATOMY
- CHEMICAL PATHOLOGY
- COMMUNITY MEDICINE
- EMERGENCY MEDICINE
- FAMILY MEDICINE
- HAEMATOLOGY
- HUMAN GENOME CENTRE
- IMMUNOLOGY
- MEDICAL EDUCATION
- MEDICINE(MED.)
- MICROBIOLOGY AND PARASITOLOGY
- NEUROSCIENCES
- NUCLEAR MEDICINE
- OBSTETRICS AND GYNAECOLOGY
- OPHTHALMOLOGY
- ORTHOPAEDIC
- OTORHINOLARYNGOLOGY
- PAEDIATRICS
- PATHOLOGY
- PHARMACOLOGY
- PHYSIOLOGY
- PSYCHIATRY
- RADIOLOGY
- SURGERY

UNITS

- ACADEMIC LAB (MPG)
- BIOSTATISTICS AND RESEARCH METHODOLOGY
- CENTRAL RESEARCH LAB
- CLINICAL TRIAL UNIT
- COMMUNITY AND FAMILY CASE STUDY (CFCS)
- EADUAN
- ELECTIVE PROGRAMME
- EXAMINATION UNIT
- INTEGRATED CLINICAL SIMULATION CENTRE (ICSC)
- INTEGRATIVE MEDICINE
- RECONSTRUCTIVE SCIENCES
- REHABILITATON UNIT
- STUDENT'S LEARNING & RESOURCE BLOCK
- WOMENS HEALTH DEVELOPMENT (UPKW)

44 Departments/unit involved in ISO 9001:2015 Internal Audit

Examples of Course File

Undergraduate : GMT 410

Postgraduate MMCW : MSc Medical Education

Program JK OBE PPSP 2022

Tarikh	Kursus	Peserta	Penceramah
30 Mac 2022 Rabu (9am - 12.30pm)	Simulasi CO-PO attainment for UG, PG, Clinical Masters programs (face-to-face)	Prof Saiful, Prof Kamarul, Prof Zul Izhar, Dr Jamilah, Dr Farizan, Dr Al, Dr Hanis, Dr Seoparjoo, Prof Nik Zuky, Prof Ismail, Prof Farid, Prof Azian, Dr Wan Mokhzani, Prof Nazri	
18 April 2022 Isnin (9am - 12.30pm)	Implementation of OBE in Clinical masters – sharing session by trainer *To bring along SAR, NPMC	Prof Irfan Prof Azian Harun Dr Wan Mokhzani Prof Nazri Mustaffa Dr Jamilah	MSBY
25 April 2022 Isnin (9am - 12.30pm)	Pemantapan BPK bagi MMCW postgrad	Penyelaras program, Penyelaras kursus MMCW	MSBY JAMM

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