



โครงการทบทวนผู้ประเมินฯ ด้วยเกณฑ์ AUN-QA มหาวิทยาลัยแม่โจ้

ผ.ศ. ดร.อัตชัย เอื้ออนันตสันต์

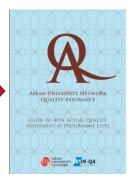
PRINCE OF SONGKLA UNIVERSITY



Version 0



Version 1 2007 – 2010 18 Criteria

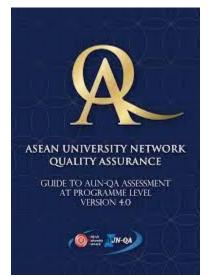


Version 2 2011 – 2016 15 Criteria

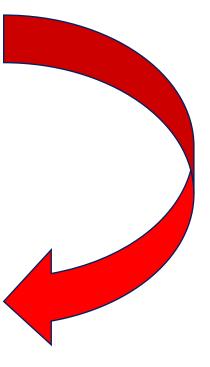


Version 3 2016/17 onwards 11 Criteria







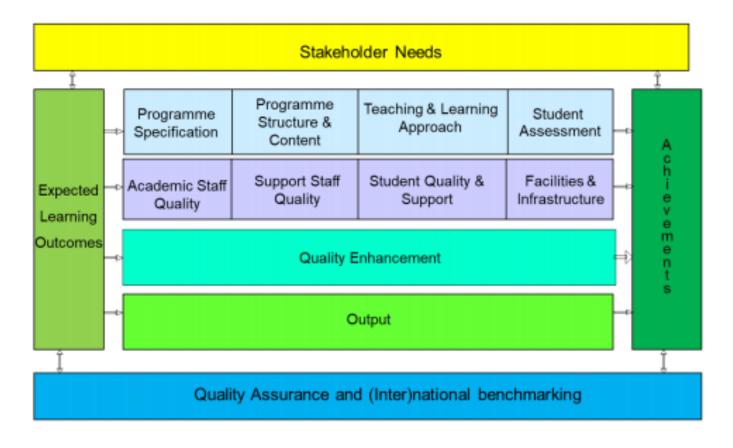




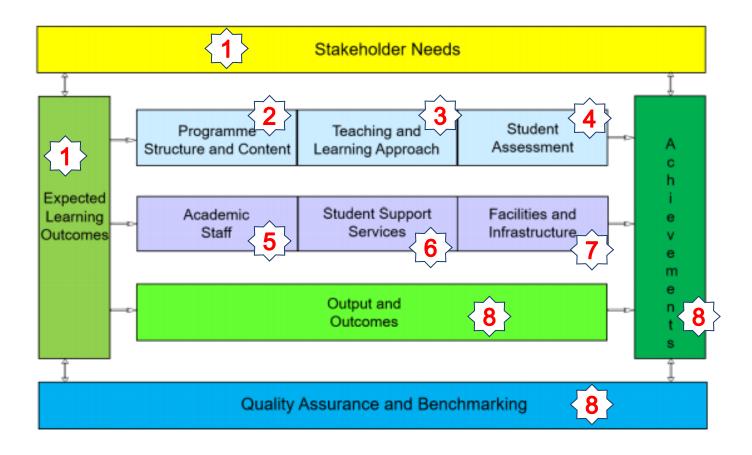
| | V3.0 | | V4.0 |
|------|---------------------------------|--------------------------------|---------------------------------|
| 1.0 | Expected Learning Outcomes | 1.0 | Expected Learning Outcomes |
| 2.0 | Programme Specification | 2.0 | Programmo Structure and Content |
| 3.0 | Programme Structure and Content | 2.0 Programme Structure and Co | |
| 4.0 | Teaching and Learning Approach | 3.0 | Teaching and Learning Approach |
| 5.0 | Student Assessment | 4.0 | Student Assessment |
| 6.0 | Academic Staff Quality | 5.0 | Academic Staff |
| 7.0 | Support Staff Quality | 6.0 | Student Support Services |
| 8.0 | Student Quality and Support | 0.0 | |
| 9.0 | Facilities and Infrastructure | 7.0 | Facilities and Infrastructure |
| 10.0 | Quality Enhancement | Inte | grated into the other criteria |
| 11.0 | Output | 8.0 | Output and Outcomes |



Source: Anuwong, K. (2021)









| Programme | Resources | Results | |
|--|---|-------------------------|--|
| 1.0 Expected Learning Outcomes 2.0 Programme Structure and Content 3.0 Teaching and Learning Approach 4.0 Student Assessment | 5.0 Academic Staff6.0 Student Support Services7.0 Facilities and Infrastructure | 8.0 Output and Outcomes | |

AUN-QA Assessment at Programme Level Version 4.0 Criteria Grouping



Addendum

- The addendum is prepared to serve as a supplement to the "Guide to AUN-QA Assessment at Programme Level Version 4.0" that provides additional notes and interpretations for assessment of the research component for the postgraduate programmes.
- In addition, it may also be used for assessment of programmes where the research component is dominant or is not given any credit rating or credit hour to represent its learning loads.
- Similar to the requirements for all criteria in the guide, the addendum can also be referred to and read together when writing the self-assessment report of such programmes.



Addendum

 In general, postgraduate programmes are programmes that require an undergraduate degree or equivalent to be considered for entry which leads to qualifications such as a postgraduate diploma, a master's degree or a doctoral degree. Postgraduate degrees are taken for a number of reasons, such as to move into academia and research, to have certain in-depth specialisation or to change track entirely.



| Characteristics | Principles-Based | Rules-Based | |
|------------------------------|--------------------------------|--------------------------|--|
| View of Quality System | Integrated & Systemic | Standalone & Ad-hoc | |
| Focus | Improvement | Compliance | |
| Feedback | Formative | Summative | |
| Improvement Objective | Continuous & Contextualisation | Static & Standardisation | |
| Reference | Framework & Non-Prescriptive | Standards & Prescriptive | |
| Assessors | Skilled Peers | Technical Experts | |
| Assessment Climate | Mutual Respect & Trust | Fearful and Suspicious | |
| Motivation for Assessment | Intrinsic | Extrinsic | |
| Methodology | Assessment or Evaluation | Audit | |

Adapted from source: "Principles-based accreditation: the way forward?" by Lindsay H Heywood

- Outcome-based Education
 - An educational philosophy organized around several basic beliefs and principles.
 - Starting with the belief that all students can learn and succeed
 - Organizing from a focus on exit level outcomes and designed downwards to the unit levels.
 - It focuses teaching & learning strategies on clearly defined learning outcomes.



- Key concepts and Principles of OBE
 - Focus on learning outcomes
 - Backwards curriculum design
 - Create learning opportunities
 - Constructive alignment (assessment learning activities – learning outcomes)







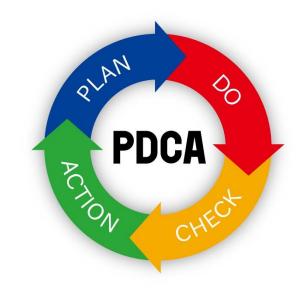
student...

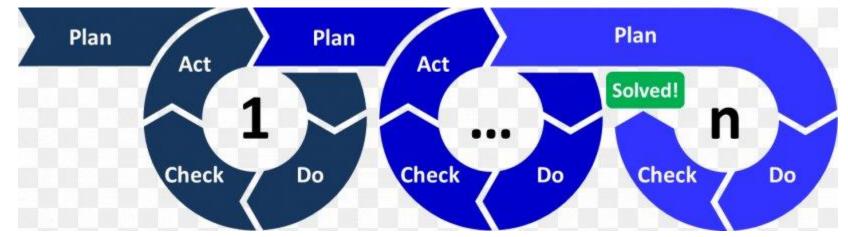


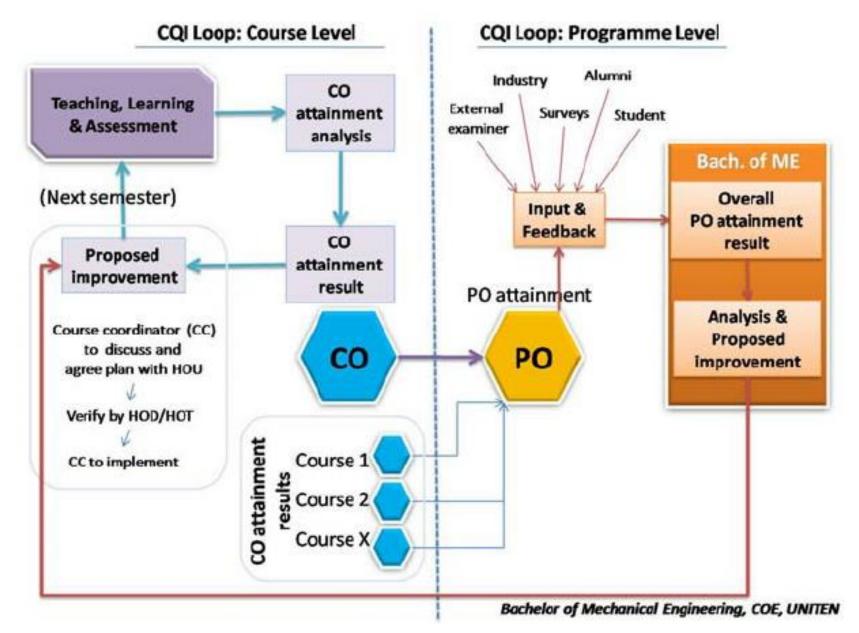


final day

- PDCA Approach
 - Continual Quality Improvement
 - Good/Best Practices

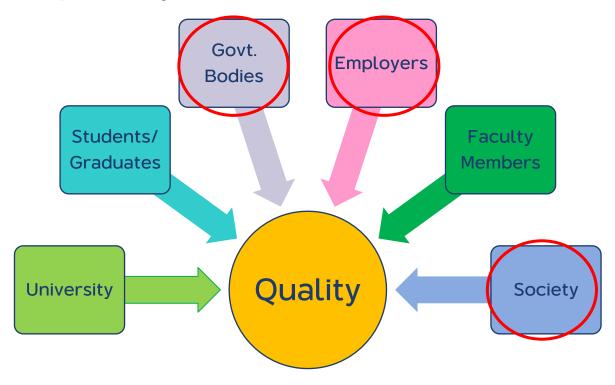








- Focusing at stakeholder's needs
 - Especially external stakeholders





| Rating | Description |
|--------|--|
| 1 | Absolutely Inadequate The QA practice to fulfil the criterion is not implemented. There are no plans, documents, evidences or results available. Immediate improvement must be made. |
| 2 | Inadequate and Improvement is Necessary The QA practice to fulfil the criterion is still at its planning stage or is inadequate where improvement is necessary. There is little document or evidence available. Performance of the QA practice shows little or poor results. |



| Rating | Description | | | |
|--------|---|--|--|--|
| 3 | Inadequate but Minor Improvement Will Make It Adequate The QA practice to fulfil the criterion is defined and implemented but minor improvement is needed to fully meet them. Documents are available but no clear evidence to support that they have been fully used. Performance of the QA practice shows inconsistent or some results. | | | |
| 4 | Adequate as Expected The QA practice to fulfil the criterion is adequate and evidences support that it has been fully implemented. Performance of the QA practice shows consistent results as expected. | | | |



| Rating | Description | | |
|--------|--|--|--|
| 5 | Better Than Adequate The QA practice to fulfil the criterion is better than adequate. Evidences support that it has been efficiently implemented. Performance of the QA practice shows good results and positive improvement trend. | | |
| 6 | Example of Best Practices The QA practice to fulfil the criterion is considered to be example of best practices in the field. Evidences support that it has been effectively implemented. Performance of QA practice shows very good results and positive improvement trend. | | |



| Rating | Description | | |
|--------|--|--|--|
| 7 | Excellent (Example of World-class or Leading Practices) The QA practice to fulfil the criterion is considered to be excellent or example of world-class practices in the field. Evidences support that it has been innovatively implemented. | | |
| | Performance of the QA practice shows excellent results and outstanding improvement trends. | | |



| Criterion | Requirements |
|------------------------------------|--------------|
| 1. Expected Learning Outcomes | 5 |
| 2. Programme Structure and Content | 7 |
| 3. Teaching and Learning Approach | 6 |
| 4. Student Assessment | 7 |
| 5. Academic Staff | 8 |
| 6. Student Support Services | 6 |
| 7. Facilities and Infrastructure | 9 |
| 8. Output and Outcomes | 5 |
| Total | 53 |



Criterion 1 - Expected Learning Outcomes

Requirements

- 1.1 The programme to show that the <u>expected learning outcomes</u> are appropriately formulated in accordance with an established learning taxonomy, are aligned to the vision and mission of the university, and are known to all stakeholders.
- 1.2 The programme to show that the expected learning outcomes for all courses are appropriately formulated and are aligned to the expected learning outcomes of the programme.
- 1.3 The programme to show that the <u>expected learning outcomes</u>^a consist of both generic outcomes (related to written and oral communication, problem-solving, information technology, teambuilding skills, etc.) and subject specific outcomes (related to knowledge and skills of the study discipline).
- 1.4 The programme to show that the requirements of the stakeholders, especially the external stakeholders, are gathered, and that these are reflected in the expected learning outcomes.
- 1.5 The programme to show that the expected learning outcomes are achieved by the students by the time they graduate^b.

Criterion 1 - Expected Learning Outcomes

Addendum

- a Formulation of the "expected learning outcomes" shall consider the national, regional and global points of reference of a postgraduate programme. As such, elements related to original research, novelty, emerging theories and practice in solving real-world problems, etc., in the graduate profile should be assessed and benchmarked.
- b The phrase "achieved by the students by the time they graduate" may include student's contribution after graduation in applying their doctorate-level and other employability skills, that may be triangulated with the referred qualification descriptors and/or the requirements of stakeholders for the degree.

Criterion 1 - Expected Learning Outcomes

Addendum

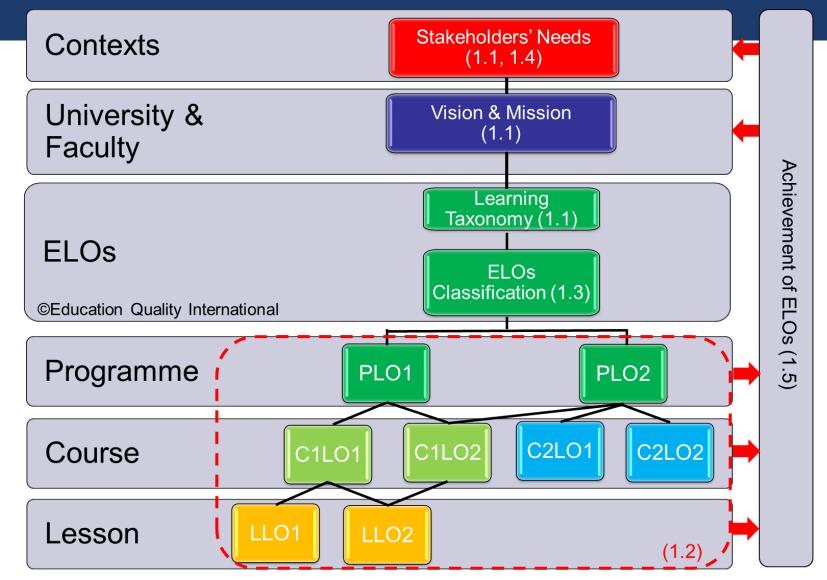
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- b The phrase "achieved by the students by the time they graduate" may include student's contribution after graduation in applying their doctorate-level and other employability skills, that may be triangulated with the referred qualification descriptors and/or the requirements of stakeholders for the degree.

Programme Learning Outcomes (PLOs) Year Learning Outcomes (YLOs) Course Learning Outcomes (CLOs) Lesson
Learning
Outcomes
(LLOs)

Constructive Alignment



Expected Learning Outcomes (Systematic Views)





Categories of Learning Outcomes

Specific outcomes:

- The outcomes that relate to the subject discipline and the knowledge, skills and/or competencies particular to the discipline.
- Generic outcomes (transferable skills):
 - The outcomes that relate to any and all disciplines e.g. written, presentation, problem-solving, information technology and team working skills, etc.



Syntax of ELO Statement

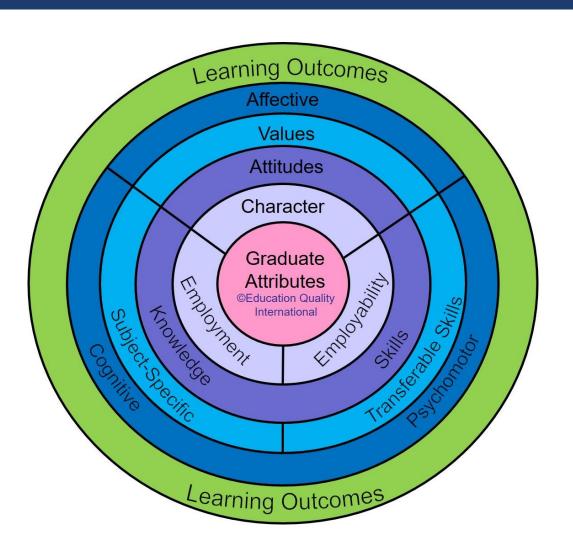
Upon completion of the programme, the student will be able to:

 Action verb (Bloom's Taxonomy) + Objects + Modification (T&L / Assessment)

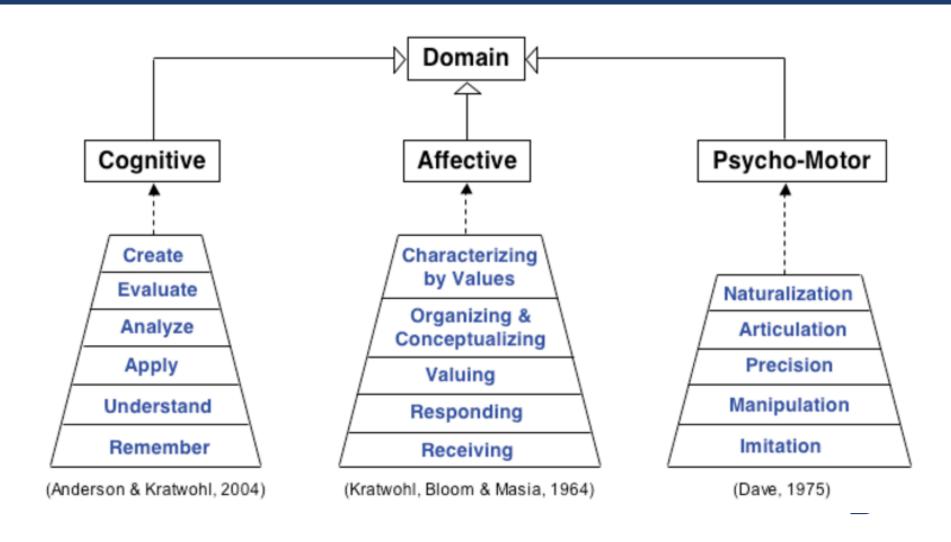
Example

- Apply + Modern Biology + especially related to molecular biology and nano-biology
- Relate + Applied Statistics + concept to analyse the real-world data









Bloom's Taxonomy (Cognitive Domain)

| 6 Cognitive Levels | | | | |
|--|----------------------------|--|--|--|
| Levels | Action Verbs | | | |
| Creation | Generating, Planning, | | | |
| Put elements together to form a coherent or | Producing, Creating, | | | |
| functional whole; reorganise elements into a new pattern or structure | Designing, Composing | | | |
| Evaluation | Checking, Critiquing | | | |
| Make judgments based on criteria and standards | | | | |
| Analysis | Differentiating, | | | |
| Break material into its constituent parts and | Organizing, Attributing | | | |
| determine how the parts relate to one another and | | | | |
| to an overall structure or purpose | | | | |
| Applying Common and a series a | Executing, Implementing | | | |
| Carry out or use a procedure in a given situation | | | | |
| Understanding | Interpreting, | | | |
| Construct meaning from instructional messages, | Exemplifying, Classifying, | | | |
| including oral, written, and graphic communication | Summarizing, Inferring, | | | |
| | Comparing, Explaining | | | |
| Remembering | Recognizing | | | |
| Retrieve relevant knowledge from long-term | Recalling | | | |
| memory | | | | |

Bloom's Taxonomy (Affective Domain)

| 5 Affective Levels | |
|---|--|
| Levels | Action Verbs |
| Characterization All behavior displayed is consistent with one's value system. Values are integrated into a pervasive philosophy that never allows expressions that are out of character with those values. | Displaying, Exhibiting, Avoiding |
| Organization | Balancing, Selecting, |
| Commitment to a set of values. | Comparing |
| Valuing Display behavior consistent with a single belief or attitude in situations where one is neither forced or asked to comply. | Acting, Arguing, Convincing, Debating |
| Responding One is required to comply with given expectations by attending or reacting to certain stimuli. | Applauding, Following, Participating, Complying |
| Receiving One is expect to be aware of or to passively attend to certain stimuli or phenomena. Simply listening and being attentive are the expectations. | Attending, Listening, Being aware |

Bloom's Taxonomy (Psychomotor Domain)

| 5 Psychomotor Levels | | | | |
|--|----------------------------|--|--|--|
| Levels | Action Verbs | | | |
| Naturalization | Automating, Naturalizing | | | |
| High level of proficiency is necessary. The behavior | | | | |
| is performed with the least expenditure of energy, | | | | |
| becomes routine, automatic, and spontaneous. | | | | |
| Articulation | Coordinating, Integrating, | | | |
| Requires the display of coordination of a series of | Timing | | | |
| related acts by establishing the appropriate | | | | |
| sequence and performing the acts accurately, with | | | | |
| control as well as with speed and timing. | | | | |
| Precision | Controlling | | | |
| Requires performance of some action independent | | | | |
| of either written instructions or a visual model. | | | | |
| Manipulation | Repeating, Aligning | | | |
| Performance of an action with written or verbal | | | | |
| directions but without a visual model or direct | | | | |
| observation. | | | | |
| Imitation | Following | | | |
| The learner observes and then imitates an action. | | | | |
| | | | | |

Achievement of PLOs

- It is important that the data for the table are provided by the students.
- This gives a more reliable measure of PLO achievement. It makes less sense for the data to be provided by the programme administrators or the academic staff since these stakeholders would have a vested interest in seeing good achievement of the learning outcomes.
- Alternatively, the data can be provided by alumni and employers within 6-24 months after graduation.



| | Achievement of LO | | | |
|----------------------------|-------------------|-----|-----|------|
| Programme Learning Outcome | 25% | 50% | 75% | 100% |
| PLO1 | | X | X | |
| PLO2 | | | | Х |
| PLO3 | Х | X | X | |
| PLO4 | | | X | |
| PLO5 | | X | X | Х |
| | | | | |
| | | | | |



Course Design

| Course Ti | tle | Course Co | Course Code | | | | |
|-----------------|------------|-----------|---------------|-------------|--|------|--|
| Pre-requis | sites: | | | Credit Unit | Credit Units: | | |
| Course De | escription | | | | | | |
| Course Learning | | | CLOs | PLO1 | PLO2 | PLO3 | |
| Outcomes | Outcomes | | L | | ent | | |
| | | CLO2 | 1 | | gu g | | |
| | | | LLOs | CLO1 | CLO2 | CLO3 | |
| | | LLO1 | | | tica | | |
| | | LLO2 | | | > \ | | |
| Week | Unit 1: | | | | | | |
| 1 | CLO | LLOs | LLOs Topics A | | s Learning Activities | | |
| | — | | Horizonta | | — | | |
| | | | | | | | |

Measuring ELOs

| Course Assessment Plan | | | | | | | | |
|------------------------|---------|---------|---------|----------|---------------|--|--|--|
| Assessment | CLO1 | CLO2 | CLO3 | CLO4 | CLO5 | | | |
| Component | | | | | | | | |
| Class Participation | | | | | Participation | | | |
| | | | | | (Rubric) | | | |
| Class Test | MCQ | Essay | Essay | | | | | |
| (Individual) | 1 -10 | Q1 -2 | Q3 | | | | | |
| Group Project | | | | Research | Research | | | |
| | | | | Rubric | Rubric | | | |
| Final Examination | Written | Written | Written | Written | | | | |
| | Test | Test | Test | Test | | | | |
| | Q1-2 | Q3-5 | Q6-8 | Q9-10 | | | | |

| Course | Programme Learning Outcomes (PLOs) | | | | | | | | |
|---------|------------------------------------|------|------|------|------|------|------|--|--|
| (C) | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 | PLO6 | PLO7 | | |
| CLO1 | | 70% | | 70% | | | 70% | | |
| CLO2 | | | 65% | | | 65% | | | |
| CLO3 | 70% | | | | 70% | | | | |
| CLO4 | | | 58% | 58% | | | 58% | | |
| CLO5 | 80% | 80% | | | 80% | | | | |
| Average | 75% | 75% | 62% | 64% | 75% | 65% | 64% | | |

| | | 4 | | | |
|---------------------|------|------|------|------|------|
| Assessment | CLO1 | CLO2 | CLO3 | CLO4 | CLO5 |
| Component | | | | | |
| Class Participation | | | | | 80% |
| (10%) | | | | | |
| Class Test | 60% | 50% | 70% | | |
| (Individual) (20%) | | | | | |
| Group Project (20%) | | | | 50% | 80% |
| Final Examination | 80% | 70% | 70% | 60% | |
| (50%) | | | | | |
| Overall (Wt. Avg) | 70% | 65% | 70% | 58% | 80% |

| | | | | _ | | | | | |
|---------------|------------------------------------|-----|-----|----------|----------|-----|-----|--|--|
| Course (C) | Programme Learning Outcomes (PLOs) | | | | | | | | |
| | PO1 | PO2 | РО3 | PO4 | PO5 | PO6 | PO7 | | |
| CLO1 | | ~ | | ✓ | | | ✓ | | |
| CLO2 | | | ~ | | | ~ | | | |
| CLO3 | ~ | | | | ✓ | | | | |
| CLO4 | | | ~ | √ | | | ✓ | | |
| CLO5 | ~ | ~ | | | √ | | | | |



Measuring ELOs (Subjective)

Table 9: ECE 4899 Average Scores for ABET Outcomes

| Subjective M | leasures | 2007-2008 | | 2008-2009 | | 2009-2010 | | 2010-2011 | | |
|--|---|-----------|-------|-----------|-------|-----------|-------|-----------|-------|----------|
| Outcome | Source | N | Score | N | Score | N | Score | N | Score | Av Score |
| (b) an ability to design and conduct experiments as well as to analyze and interpret data | Questions 6 & 12 on ECE 4899 Exit Questionnaire (student & faculty | 6 | 90.3% | 11 | 86.4% | 12 | 90.1% | 9 | 78.%3 | 86.3% |
| (c) an ability to design a system, component or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability | Questions 5 & 14 on ECE 4899 Exit Questionnaire (student & faculty) | 6 | 95.8% | 11 | 87.1% | 12 | 88.1% | 9 | 85.0% | 89.0% |
| (d) an ability to function on multi-disciplinary teams | Question 8 on ECE 4899 Exit Questionnaire (student & faculty) | 6 | 97.2% | 11 | 87.9% | 12 | 86.0% | 9 | 88.8% | 89.9% |
| (g) an ability to communicate effectively | Questions 1,2,& 3 on ECE 4899 Exit Questionnaire (student & faculty) | 6 | 91.7% | 11 | 84.9% | 12 | 87.0% | 9 | 82.8% | 86.6% |

Source: ABET Self-Study Report for the Bachelor of Science in Computer Engineering at University of Colorado

Measuring ELOs (Subjective)

LEARNING OUTCOMES

The following learning outcomes for the workshop have been achieved.

| | | Strongly Disagre | • | | | | , | Strongly Agree |
|-----|--|---------------------|-------------|-----------------|--------|-----|------------|-------------------|
| 1. | <u>Describe</u> the characteristics of Education 4.0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 2. | Apply OBE approach in designing study programme | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 3. | Select appropriate strategies to engage stakeholders in curriculum design | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 4. | <u>Design</u> integrated curriculum to promote collaborative research | 1 | 2 | 3 | 4 | 500 | 5 6 | 7 |
| 5. | Apply the principle of constructive alignment to align stakeholders' needs, curriculum, learning outcomes, teaching and learning, and student assessment | 1 | 2 | 3 ctiV | 4 eMer | 5 | 6 | 7 |
| 6. | Apply revised Bloom's Taxonomy in writing learning outcomes | 1 | 2 2 3 |)\ ³ | 4 | 5 | 6 | 7 |
| 7. | Select appropriate instructional and assessment methods to achieve learning outcomes | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8. | <u>Design</u> student assessment rubrics and marking schemes to achieve learning outcomes | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 9. | Evaluate the OBE curriculum for quality enhancement | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 10. | Apply change management in implementing OBE | 1 | 2 | 3 | 4 | 5 | 6 | 7 |



Criterion 2 - Programme Structure and Content

Requirements

- 2.1 The specifications of the programme and all its <u>courses</u>^c are shown to be comprehensive, up-to-date, and made available and communicated to all stakeholders.
- 2.2 The design of the curriculum is shown to be <u>constructively aligned</u>^d with achieving the expected learning outcomes.
- 2.3 The design of the curriculum is shown to include feedback from stakeholders, especially external stakeholders.
- 2.4 The contribution made by each <u>course</u>^c in achieving the expected learning outcomes is shown to be clear.
- 2.5 The curriculum to show that all its <u>courses</u>^c are logically structured, properly sequenced (progression from basic to intermediate to specialised courses), and are integrated.
- 2.6 The curriculum to have option(s) for students to pursue major and/or minor specialisations.
- 2.7 The programme to show that its curriculum is reviewed periodically following an established procedure and that it remains up-to-date and relevant to industry.

Criterion 2 - Programme Structure and Content

Addendum

- c In the context of planning and delivering the programme research component that is aligned to the expected learning outcomes, the term "course" or "courses" should be referred to programme activities or/and assessment tasks related to monitoring progression and reviewing academic performance of a postgraduate student.
- d Consequently, the term "constructive alignment" for the programme research component could be shown or demonstrated by mapping between the expected learning outcomes of the programme with activities or/and assessment tasks related to progress and performance reviews of a doctorate candidate/student.

The information in the programme specifications include the below:

- Awarding body/institution
- Teaching institution (if different)
- Details of accreditation by professional or statutory bodies

P.20

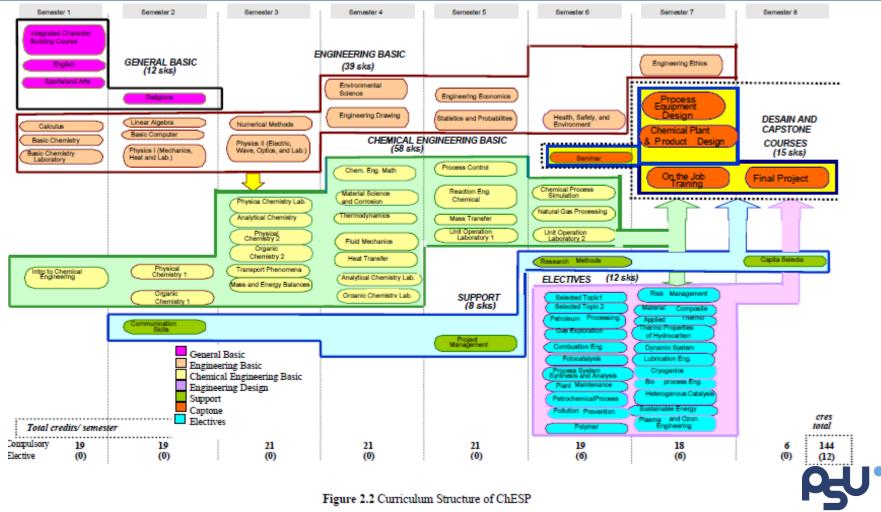
- Name of the final award
- Programme title
- Expected learning outcomes of the programme
- Admission criteria or requirements
- Relevant benchmark reports, external and internal reference points, that may be used
- to provide information on programme learning outcomes
- Programme structure and requirements including levels, courses, cred
- The date of writing the programme specifications.

The information to be included in the courses specifications include the below:

- Course title
- Course requirements such as pre-requisites, credits, etc.
- Expected learning outcomes of the course in terms of knowledge, skills, and attitude
- Teaching, learning, and assessment methods that enable the expected learning outcomes to be achieved
- Course description, outline, or syllabus
- Details of student assessment
- Date on which the course specification was written or revised.

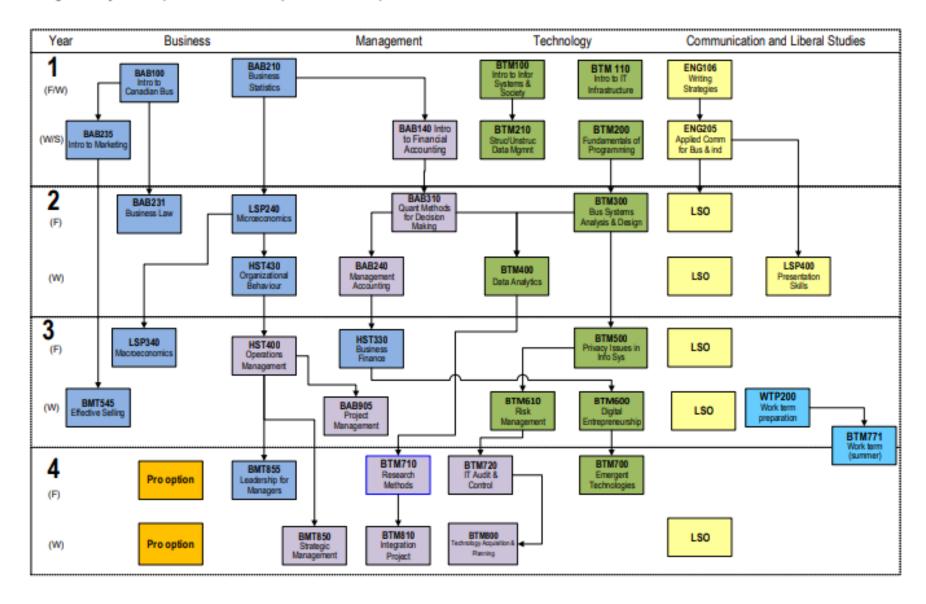


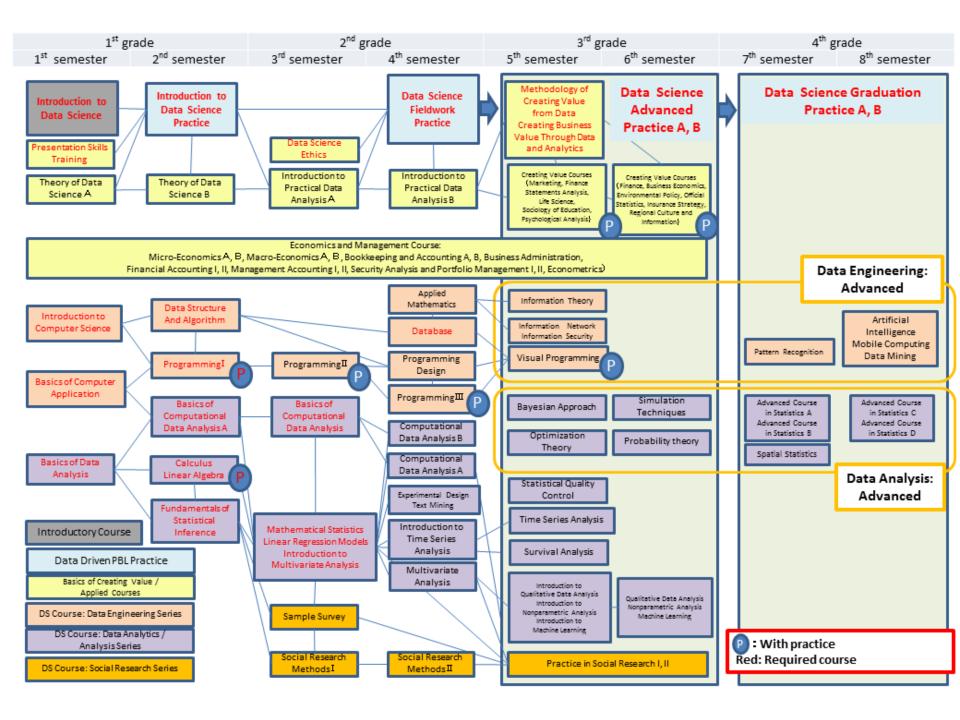
Curriculum Diagram



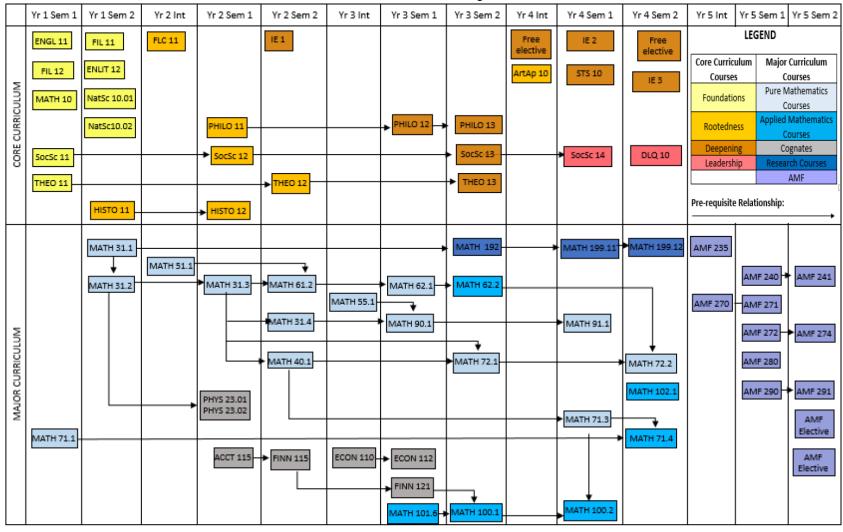
Source: Chemical Engineering, Universitas Indonesia

Business Technology Management (BTM) Curriculum Program Entry Date: September 2020 or later | Effective Date September 2021



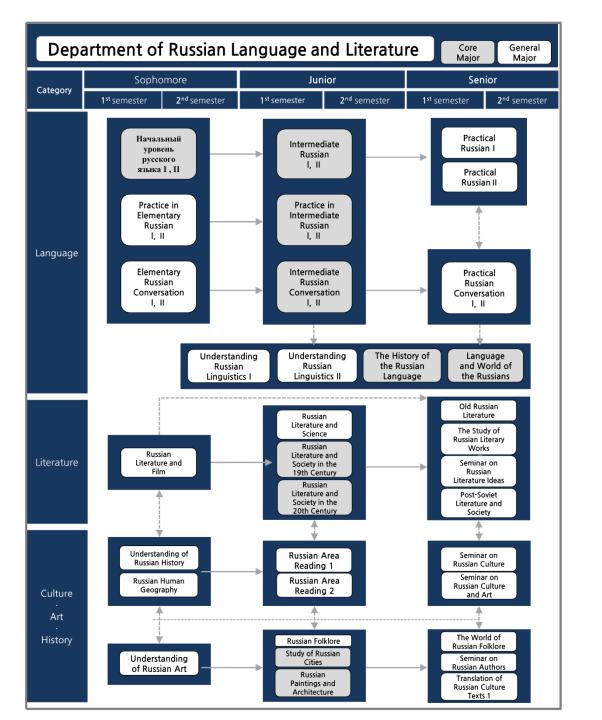


Curriculum Map



Source: Bachelor of Science/Master in Applied Mathematics with Specialization in Mathematical Finance Ateneo de Manila University







Course Design

| Course Ti | tle | | | Course Code | | | | | | | |
|------------|-------------------------------|------|-----|-------------|-------|-------------|------------------------|-----------|--|--|--|
| Pre-requis | Pre-requisites: Credit Units: | | | | | | | | | | |
| Course De | escription | | | | | | | | | | |
| Course Le | | | | CLOs | | PLO1 | PLO2 | PLO3 | | | |
| Outcomes | • | CI | _01 | | | ent | | | | | |
| | | CI | _02 | | | mu du m | | | | | |
| | | | | LLOs | | CLO1 🔻 | CLO2 | CLO3 | | | |
| | | LI | .01 | | | tica | | | | | |
| | | LL | .02 | | | \ \ \ | , | | | | |
| Week | Unit 1: | | | | | | | | | | |
| 1 | CLO | LLOs | | Topics | | sessments | Learning Activities | Resources | | | |
| | — | | | Horizonta | Aligr | nment | | — | | | |
| | | | | | | | | | | | |

ELO and Course Alignments

| Course | C 11 | | Credit | | | Programme Learning Outcomes | | | | | | | | | | | | | | | | |
|----------|------------------------------------|------|--------|------|-----|-----------------------------|---------|----------|---------|--------|-----|-----|--------|--------|------|-----|-----|-----|---|---|---|---|
| Number | Course Name | Lect | Lab | Clin | 1.1 | 1.2 | 2.1 | 2.2 | 3.1 | 3.2 | 3.3 | 4.1 | 4.2 | 4.3 | 4.4 | 4.5 | 5.1 | 5.2 | 6 | 7 | 8 | 9 |
| | | | | | | G | eneral | Educati | ion Cou | ırses | | | | | • | • | | • | | • | • | |
| XXXXXXXX | Social Sciences Course | | 3 | | • | | • | | • | | • | | • | • | | • | • | • | • | | | |
| XXXXXXXX | Humanities Course | | 3 | | • | | • | | • | | • | | • | • | | • | • | • | | • | | |
| XXXXXXX | Mathematics and Sciences Course | | 3 | | • | | • | | • | | • | | • | • | | • | • | • | | | • | |
| XXXXXXX | Interdisciplinary Course | | 3 | | • | | • | | • | | • | | • | • | | • | • | • | | | | • |
| | Total Credits | | 12 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Fr | ee Elec | tives | | | | | | | | | | | | | |
| XXXXXXX | Any Course (in total of) | | 6 | | | | | | | | | Dep | end on | the co | urse | | | | | | | |
| | Total Credits | | 6 | | | | | | | | | | | | | | | | | | | |
| | | | | | | F | oreign | Langua | ge Cou | rses | | | | | | | | | | | | |
| 5500111 | Experiential English 1 | 2 | 1 | | • | | • | | • | | • | | • | • | | • | • | • | • | | | |
| 5500112 | Experiential English 2 | 2 | 1 | | • | | • | | • | | • | | • | • | | • | • | • | | • | | |
| 5500212 | English for Dental Professions 1 | 2 | 1 | | • | | • | | • | | • | | • | • | | • | • | • | | | • | |
| 5500213 | English for Dental Professions 2 | 2 | 1 | | • | | • | | • | | • | | • | • | | • | • | • | | | | • |
| | Total of Each Type | 8 | 4 | | | | | | | | | | | | | | | | | | | |
| | Total Credits | | 12 | | | | | | | | | | | | | | | | | | | |
| | | | | | | Speci | al Gene | eral Edu | ucation | Course | | | | | | | | | | | | |
| 3200102 | Bioethics | | 1 | | • | | • | | • | 0 | 0 | | • | | | | • | • | 0 | 0 | 0 | 0 |
| 3200103 | Computer Application in Profession | | 1 | | • | | • | | • | 0 | 0 | | • | • | | 0 | • | • | | | | |
| 3200108 | Biostatistics | 2 | | | 0 | 0 | 0 | | • | 0 | 0 | | | • | • | | 0 | 0 | | | | |
| 3200601 | Health Organization Administration | 2 | | • | | • | | • | 0 | 0 | | 0 | | | • | 0 | 0 | | | | | |
| | Total of Each Type | 4 | 2 | | | | | | | | | | | | | | | | | | | |
| | Total Credits | | 6 | | | | | | | | | | | | | | | | | | | |

Source: Doctor of Dental Surgery Programme, Chulalongkorn University

Criterion 3 - Teaching and Learning Approach

Requirements

- 3.1 The educational philosophy is shown to be articulated and communicated to all stakeholders. It is also shown to be reflected in the teaching and learning activities^e.
- 3.2 The <u>teaching and learning activities</u> are shown to allow students to participate responsibly in the learning process.
- 3.3 The <u>teaching and learning activities</u> are shown to involve active learning by the students.
- 3.4 The <u>teaching and learning activities</u>^e are shown to promote learning, learning how to learn, and instilling in students a commitment for life-long learning (e.g., commitment to critical inquiry, information-processing skills, and a willingness to experiment with new ideas and practices).
- 3.5 The <u>teaching and learning activities</u> are shown to inculcate in students, new ideas, creative thought, innovation, and an entrepreneurial mindset.
- 3.6 The teaching and learning processes are shown to be continuously improved to ensure their relevance to the needs of industry and are aligned to the expected learning outcomes.

Criterion 3 - Teaching and Learning Approach Addendum

e The term "teaching and learning activities" for the programme research component may include discussion and consultation with the supervisors as well as programme activities and assessment tasks that are related to progress monitoring and performance reviews of a postgraduate student.

Responsible Participation

In promoting responsibility in learning, lecturers should:

- Create a teaching-learning environment that enables individuals to participate responsibly in the learning process.
- Provide curricula that are flexible and enable learners to make meaningful choices in terms of subject content, programme routes, approaches to assessment, and modes and duration of study.

Responsible Participation

| Course Ti | tle | | | | | | Course Code | | |
|------------|------------|----------|------|-----------|-------|-------------|------------------------|-------------|----|
| Pre-requis | sites: | | | | | | Credit Units: | | |
| Course De | escription | | | | | | | | |
| Course Le | | | | CLOs | | PLO1 | PLO2 | PLO3 | |
| Outcomes | • | | CLO1 | | | ent | | | |
| | | | CLO2 | | | gnm | | | |
| | | | | LLOs | | CLO1 🗧 | CLO2 | CLO3 | |
| | | | LLO1 | | | tica | | | |
| | | | LLO2 | | | \ \ \ | , | | |
| Week | Unit 1: | <u> </u> | | | | | , | | |
| 1 | CLO | LL | .Os | Topics | | sessments | Learning Activities | Resource | es |
| | ← | | | Horizonta | Aligr | nment | | | |
| | | | | | | | | | |

Education Philosophy - PSU

- ปรัชญาการศึกษา
- สำนักการศึกษาและนวัตกรรมการเรียนรู้
- https://eila.psu.ac.th/curriculum/edudata/

ข้อมูลการศึกษา

- ▶ ปรัชญาการจัดการศึกษา
- อัตลักษณ์มหาวิทยาลัยสงขลานครินทร์
- ระบบและกลไกการจัดการเรียนการสอน
- ▶ กระบวนการจัดการเรียนการสอน (Flow Chart)



Education Philosophy - PSU

มหาวิทยาลัยสงขลานครินทร์ ก่อตั้งขึ้นตามนโยบายการพัฒนาภาคใต้ โดยมีเจตนารมณ์ ตั้งแต่แรกเริ่มที่จะให้เป็นมหาวิทยาลัยหลักของภาคใต้ ทำหน้าที่ผลิตบัณฑิต วิจัย บริการวิชาการและ ทำนุบำรุงศิลปวัฒนธรรม การจัดการศึกษาของมหาวิทยาลัยจึงมุ่งเน้นที่การพัฒนาคนเพื่อให้เป็นกำลัง หลักของสังคม และยึดตามแนวทางการจัดการศึกษาของชาติที่มุ่งเน้นผู้เรียนเป็นศูนย์กลาง

ปรัชญาการศึกษาของมหาวิทยาลัยสงขลานครินทร์ จึงเป็นการจัดการศึกษาตาม แนวทางพิพัฒนาการนิยม (Progressivism) คือการพัฒนาผู้เรียนในทุกด้าน เพื่อให้พร้อมที่จะอยู่ใน สังคมได้อย่างมีความสุข และปรับตัวได้ดีตามสถานการณ์ที่เปลี่ยนไป โดยใช้กระบวนการจัดการ เรียนรู้เป็นเครื่องมือในการพัฒนาผู้เรียนโดยให้ผู้เรียนเป็นศูนย์กลางของการเรียนรู้ และพัฒนา จากความต้องการของผู้เรียน ผ่านกระบวนการแก้ปัญหาและค้นคว้าด้วยตนเอง กระบวนการที่ต้อง ลงมือปฏิบัติทั้งในและนอกห้องเรียน ซึ่งจะนำไปสู่การเรียนรู้ที่ยั่งยืน และจากแนวคิดที่ว่าการพัฒนา คือการเปลี่ยนแปลง การเรียนรู้จึงไม่ได้หยุดอยู่เพียงภายในมหาวิทยาลัยแต่จะดำเนินไปตลอดชีวิต การจัดการศึกษาของมหาวิทยาลัยจึงมุ่งเน้นถึงการเรียนรู้ตลอดชีวิตด้วย

จากหลักการดังกล่าวข้างต้นนำสู่การจัดการศึกษาที่มุ่งเน้นผลลัพธ์ (Outcome Based Education) โดยการพัฒนาหลักสูตร กระบวนการจัดการเรียนรู้ ที่มหาวิทยาลัยเชื่อว่าสามารถ ตอบสนองหลักการดังกล่าวได้ คือ การจัดการเรียนรู้ ที่ใช้กิจกรรมหรือการปฏิบัติ (Active learning) ที่หลากหลาย โดยเฉพาะการใช้ปัญหาเป็นฐานในการเรียนรู้ (Problem-based Learning) การใช้ โครงงานเป็นฐาน (Project-based Learning) และการเรียนรู้โดยการบริการสังคม (Service Learning) และยึดพระราชปณิธานของสมเด็จพระบรมราชชนก "ขอให้ถือประโยชน์ของเพื่อน มนุษย์เป็นกิจที่หนึ่ง" เป็นแนวทางในการดำเนินการ



 Active learning is a process that has student learning at its centre. Active learning focuses on how students learn, not just on what they learn. Students are encouraged to 'think hard', rather than passively receive information from the lecturer.



- Active learning refers to a broad range of teaching strategies which engage students as active participants in their learning during class time with their teacher.
- Typically, these strategies involve some amount of students working together during class, but may also involve individual work and/or reflection.
- These teaching approaches range from short, simple activities like journal writing, problem solving and paired discussions, to longer, involved activities or pedagogical frameworks like case studies, role plays, and structured team-based learning.





This is a spectrum of some active learning activities arranged by complexity and classroom time commitment.

- Active learning refers to a broad range of teaching strategies which engage students as active participants in their learning during class time with their teacher.
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- These teaching approaches range from short, simple activities like journal writing, problem solving and paired discussions, to longer, involved activities or pedagogical frameworks like case studies, role plays, and structured team-based learning.

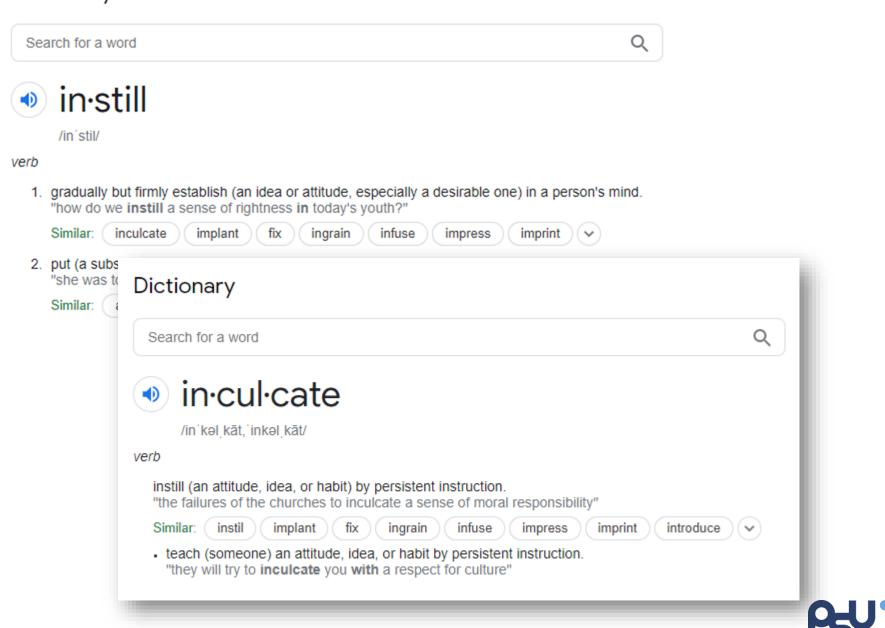
Life-long Learning

- The ability to discover knowledge for oneself.
- The ability to retain knowledge long term
- The ability to perceive relations between old and new knowledge.
- The ability to create new knowledge.
- The ability to apply one's knowledge to solve problems.
- The ability to communicate one's knowledge to others.
- An eagerness to know more.



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Dictionary



Entrepreneurial Mindset





Criterion 4 - Student Assessment

Requirements

- 4.1 A variety of <u>assessment methods</u> are shown to be used and are shown to be constructively aligned to achieving the expected learning outcomes and the teaching and learning objectives.
- 4.2 The assessment and assessment-appeal policies are shown to be explicit, communicated to students, and applied consistently.
- 4.3 The assessment standards and procedures for student progression and degree completion, are shown to be explicit, communicated to students, and applied consistently.
- 4.4 The <u>assessment methods</u> are shown to include rubrics, marking schemes, timelines, and regulations, and these are shown to ensure validity, reliability, and fairness in assessment.
- 4.5 The <u>assessment methods</u>^f are shown to measure the achievement of the expected learning outcomes of the programme and its courses.
- 4.6 Feedback of student assessment is shown to be provided in a timely manner.
- 4.7 The student assessment and its processes are shown to be continuously reviewed and improved to ensure their relevance to the needs of industry and alignment to the expected learning outcomes.

Criterion 4 - Student Assessment

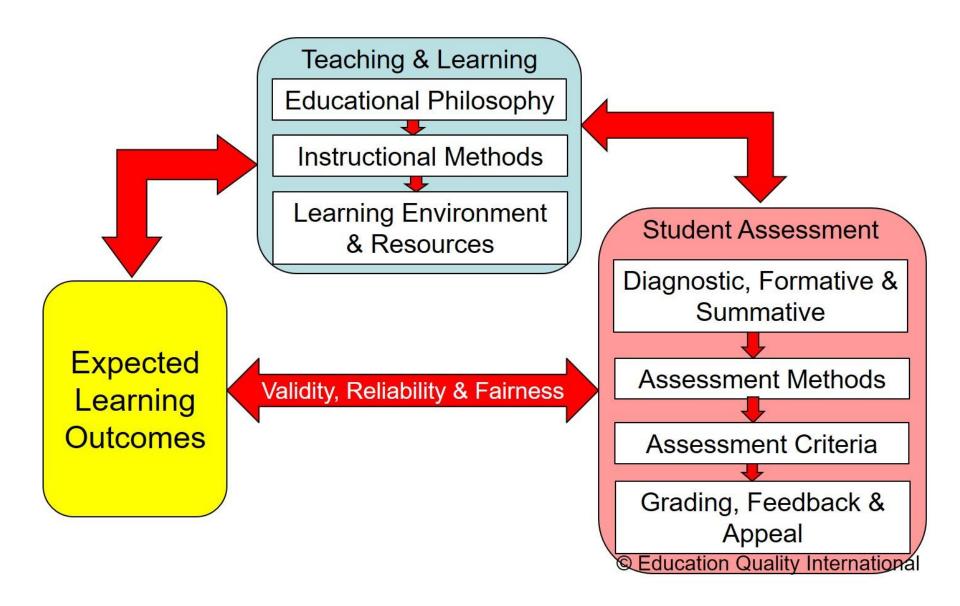
Addendum

f The term "assessment methods" for the programme research component may include semester-based and/or annual progress monitoring and reviews of student's academic performance, as well as the final assessment of the thesis or dissertation leading to award of the postgraduate degree. The final assessment of the thesis or dissertation may also be referred to as viva-voce or thesis/dissertation defence.

Student Assessments

- Measuring learning outcomes at each level
 - PLO, YLO, CLO, LLO
- Constructive alignment
- Standardization (assessment standard / common rubrics & marking schemes)
- Criterion-referenced อิงเกณฑ์ ← OBE
- Preferring formative assessment to summative assessment
- Validity / Reliability / Fairness







Scoring rubrics

- Not for all assessments
- Rubrics are suitable for soft skills (presentation etc.) and attitude.
- Answering questions สอบข้อเขียน -> marking schemes



Scoring rubrics

PRESENTATION

| | LEVEL 4 | LEVEL 3 | LEVEL 2 | LEVEL 1 |
|---|---|--|---|---|
| | Exceptional | Effective | Acceptable | Developing |
| Knowledge / Understanding | | 7 | | |
| Demonstrates an understanding of the topic | thorough understanding | considerable understanding | moderate understanding | emerging understanding |
| Inquiry / Thinking | | | - | |
| Develops and supports an original idea or opinion about the topic | thorough development and support | considerable development and support | moderate development and support | emerging sense of development and support |
| Communication | | y | | |
| Addresses audience and speaks clearly with fluency, structure, and purpose | high degree of fluency, structure, and purpose | considerable fluority, structure, and purpose | moderate fluency, structure, and purpose | emerging fluency and sense of structure and purpose |
| Application | | | | |
| Exercises rhetorical skills such as emphasis, timing, pacing, reasoning, and questioning | high degree of skill | considerable skill | moderate skill | emerking skill |

Overall Grade:
$$\frac{9}{16} = 56\%$$

Scoring rubrics

Breakfast in Bed: Analytic Rubric

| | Beginning 1 | Developing 2 | Accomplished 3 | Exemplary 4 | Score |
|--------------|--|--|--|--|-------|
| Food | Most food is colder or warmer than it should be, is under- or over-seasoned, or is under- or overcooked. | Some food is colder or warmer than it should be, is under- or over-seasoned, or is under- or overcooked. | All food is at the correct temperature, adequately seasoned, and cooked to the eater's preference. | All food is perfectly cooked and seasoned to the eater's preference. Additional condiments are offered. | |
| Presentation | More than one item (tray, napkin, or silverware) are dirty or missing. | Tray, napkin or silverware may be dirty or missing. | Food is served on a clean tray, with napkin and silverware. Some decorative additions may be present. | Food is served on a clean tray, with napkin and silverware. Several decorative touches are added. | |
| Comfort | Wake-up is abrupt, little to no help with seating, and the recipient is rushed and crowded during the meal. | Wake-up is somewhat abrupt, recipient may struggle with seat adjustment, or there may be some rushing or crowding during eating. | Recipient is woken gently, assisted in seat adjustment, and given reasonable time and space to eat. | Recipient is woken gently and lovingly, assisted until seating is just right, and given abundant time and space to eat. | |



Marking schemes

Chemistry Marking scheme Delhi - 2016 Set - 56/1/3/D

| Q.No | VALUE POINTS | MARKS |
|------|---|----------|
| 1 | Ferromagnetism | 1 |
| 2 | CH ₃ CH ₂ CH(Cl)CH ₃ ; secondary halide/ 2 ⁰ carbocation is more | 1/2, 1/2 |
| | stable | |
| 3 | NH_3 | 1 |
| 4 | Like Charged particles cause repulsion/ Brownian motion/ solvation | 1 |
| 5 | 2,4,6-Tribromoaniline / 2,4,6-Tribromobenzenamine | 1 |
| 6 | (i) $[Cr(H_2O)_5Cl]Cl_2.H_2O$ | 1 |
| | (ii) pentaaquachloridoChromium(III) chloride monohydrate (or | 1 |
| | chloride hydrate) | |
| | (no deduction for not writing hydrate) | |
| 7 | (i) Mercury cell | 1/2 |
| | (ii) Fuel cell | 1/2 |
| | (iii) Lead storage battery | 1/2 |
| | (iv)Dry cell | 1/2 |
| 8 | A-Na ₂ CrO ₄ | 1/2 |
| | $B-Na_2Cr_2O_7$ | 1/2 |
| | $C-K_2Cr_2O_7$ | 1/2 |
| | Use- strong oxidising agent / as a primary standard in | 1/2 |
| | volumetric analysis | |
| | OR | |
| 8 | 8MnO ₄ ⁻ + 3S ₂ O ₃ ²⁻ + H ₂ O> 8MnO ₂ + 6SO ₄ ²⁻ + 2OH ⁻ | 1 |
| | | |
| | $\text{Cr}_2\text{O}_7^{2-} + 14 \text{ H}^+ + 3 \text{ Sn}^{2+} \rightarrow 2 \text{ Cr}^{3+} + 3 \text{ Sn}^{4+} + 7 \text{ H}_2\text{O}$ | 1 |
| | | |

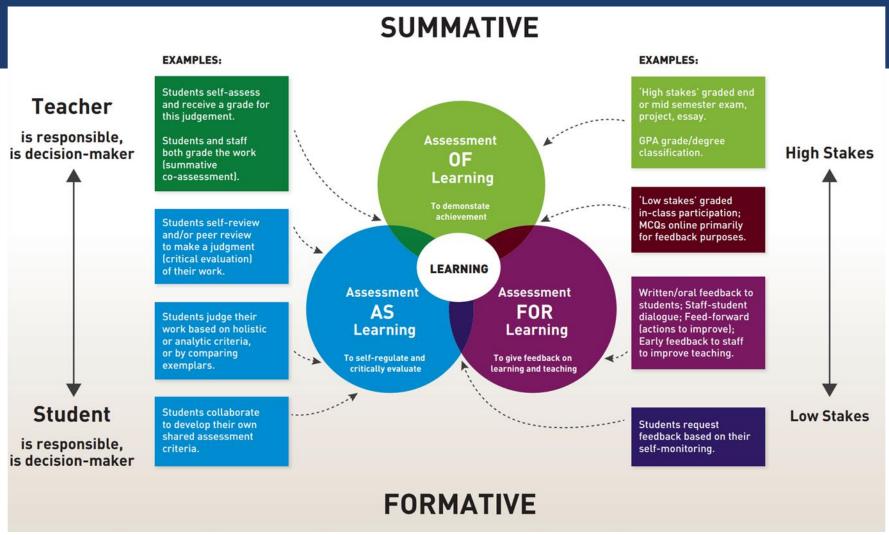


Marking schemes

| 1/1/1 | 1/1/2 | 1/1/3 | SUGGESTED VALUE POINTS | (DELHI-2017) |
|-------|-------|-------|--|--------------|
| | | | SECTION A: READING | |
| 1 | 1 | 1 | NOTE: No mark(s) should be deducted for mistakes in usage and grammar, spelling, or word limit. Full marks may be awarded if a student has been able to identify the core ideas. If a student literally lifts a portion of the given passage as an answer to a question, no mark(s) to be deducted for this as long as it is relevant. | 12 marks |
| (a) | (a) | (a) | (ii) no one stared at him | 1 mark |
| (b) | (b) | (b) | (i) Heaven Lake / (ii) Mount Bogda | 1 mark |
| (c) | (c) | (c) | (iv) there were thick quilts on the bed | 1 mark |
| (d) | (d) | (d) | (ii)a shining prism | 1 mark |
| (e) | (e) | (e) | bumpy ride; man eating overpoweringly smelly goat's cheese; leaking windows (any two) | ½ +½=1 mark |
| (f) | (f) | (f) | -green ground/ slopes dark with pines/ cattle/ clear steam, moss covered stones | 1 mark |
| (g) | (g) | (g) | he wished he had brought something warmer than a pair of shorts/ the narrator did not carry warm clothes | 1 mark |
| (h) | (h) | (h) | kababs cooked on skewers over charcoal braziers, were particularly good / highly spiced / well done | 1 mark |
| (i) | (i) | (i) | - several sizes too large but more than comfortable | 1 mark |
| (j) | (j) | (j) | because people often drowned there | 1 mark |
| (1-) | (k) | (k) | i) vendors | 1 mark |
| (k) | (K) | (A) | ii) exaggerated | 1 mark |



Summative vs Formative Assessments



Source: National Forum for the Enhancement of Teaching and Learning in Higher Education, "Expanding our Understanding of Assessment and Feedback in Irish Higher Education," in *teachingandlearning.ie*, Published March 30, 2017, Last Accessed April 4, 2021, https://www.teachingandlearning.ie/publication/expanding-our-understanding-of-assessment-and-feedback-in-irish-higher-education/.

Types of Assessments





- MCQs
- Short Answer Test
- Essay
- Performance Test
- Written Test
- Fieldwork/Practicum
- Projects

- Laboratory Test
- Thesis
- Presentation
- Portfolios
- Case Studies
- Posters
- Journals/Blogs



Criterion 5 - Academic Staff

- 5.1 The programme to show that academic staff planning (including succession, promotion, re-deployment, termination, and retirement plans) is carried out to ensure that the quality and quantity of the academic staff fulfil the needs for education, research, and service.
- 5.2 The programme to show that staff workload is measured and monitored to improve the quality of education, research, and service.
- 5.3 The programme to show that the <u>competences</u>^g of the academic staff are determined, evaluated, and communicated.
- 5.4 The programme to show that the duties allocated to the academic staff are appropriate to qualifications, experience, and aptitude.

Criterion 5 - Academic Staff

- 5.5 The programme to show that promotion of the academic staff is based on a merit system which accounts for teaching, research, and service.
- 5.6 The programme to show that the rights and privileges, benefits, roles and relationships, and accountability of the academic staff, taking into account professional ethics and their academic freedom, are well defined and understood.
- 5.7 The programme to show that the <u>training and developmental needs</u>^h of the academic staff are systematically identified, and that appropriate training and development activities are implemented to fulfil the identified needs.
- 5.8 The programme to show that performance management including reward and recognition is implemented to assess academic staff teaching and research quality.

Criterion 5 - Academic Staff

Addendum

- g The term "competences" of academic staff appointed to be a supervisor for a master's or doctorate candidate or student should include competence to provide an effective supervision for a master's or doctorate level project. This may include skills in providing guidance for the students to carry out their research works based on their study plan and monitor the student's progression as according to the plan in order to ensure that they can finish their project as planned.
- h As such, the phrase "training and developmental needs" of the academic staff may include training on how to be an effective supervisor for a master's or doctorate candidate or student.

Competent academic staff

- Design and deliver a coherent teaching and learning curriculum.
- Apply a range of teaching and learning methods and select the most appropriate assessment methods to achieve the expected learning outcomes.
- Develop and use a variety of instructional media.
- Monitor and evaluate their own teaching performance and evaluate courses that they deliver.
- Reflect upon their own teaching practices.
- Conduct research and provide services to benefit stakeholders.



Competent academic staff

| Category | М | F | Total | | Percentage of |
|-------------|---|---|-----------|-----|---------------|
| | | | Headcount | FTE | PhD |
| Professors | | | | | |
| Associate/ | | | | | |
| Assistant | | | | | |
| Professors | | | | | |
| Full-time | | | | | |
| Lecturers | | | | | |
| Part-time | | | | | |
| Lecturers | | | | | |
| Visiting | | | | | |
| Professors/ | | | | | |
| Lecturers | | | | | |
| Total | | | | | |

Number of Academic Staff (specify reference date and method of calculation used for FTE of academic staff)

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FTE

- Full-Time Equivalent
- ศูนย์บริการจัดการคุณภาพองค์กร
- http://www.qa.psu.ac.th/cuptqa.php
- >> การคำนวณค่า FTE ระดับหลักสูตร ในเกณฑ์ AUN 6
 - ตัวอย่าง การคำนวณค่า FTE ของอาจารย์
 - ตัวอย่างการคำนวณค่า FTE ของนักศึกษา (หลักสูตรระดับปริญญาตรี)
 - ปรับแนวทางการคำนวณ FTE ตามเกณฑ์ AUN 6 ของนักศึกษา มหาวิทยาลัยสงขลานครินทร์ (มอ 001.3 /ว 295)
 - ข้อมูลจำนวนหน่วยกิต ของนักศึกษา แยกหลักสูตร ปีการศึกษา 2558 สำหรับคิดค่า FTE
- Oftentimes full-time equivalent (FTE) and staff-to-student ratio are used to determine the needed number of academic staff.

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Academic Staff

ตามข้อกำหนดของม.อ.

- Promotion ได้แก่ ตำแหน่งวิชาการ / TPSF
- Privileges and benefits ได้แก่ สวัสดิการด้านต่าง ๆ
- Performance management ได้แก่ การประเมินเลื่อน ขั้นเงินเดือนตาม TOR



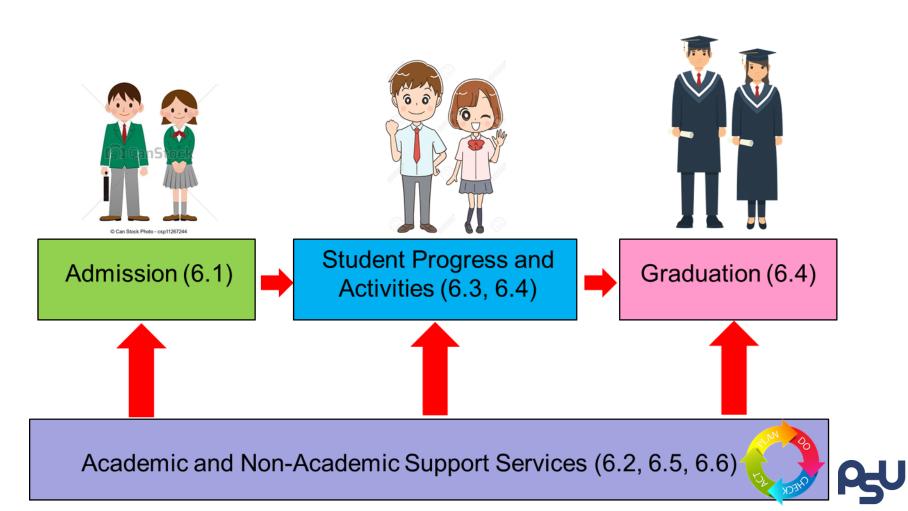
Criterion 6 - Student Support Services

- 6.1 The student intake policy, admission criteria, and admission procedures to the programme are shown to be clearly defined, communicated, published, and up-to-date.
- 6.2 Both short-term and long-term planning of academic and non-academic support services are shown to be carried out to ensure sufficiency and quality of support services for teaching, research, and community service.
- 6.3 An adequate system is shown to exist for student progress, academic performance, and workload monitoring. Student progress, academic performance, and workload are shown to be systematically recorded and monitored. Feedback to students and corrective actions are made where necessary.

Criterion 6 - Student Support Services

- 6.4 Co-curricular activities, student competition, and other student support services are shown to be available to improve learning experience and employability.
- 6.5 The competences of the support staff rendering student services are shown to be identified for recruitment and deployment. These competences are shown to be evaluated to ensure their continued relevance to stakeholders needs. Roles and relationships are shown to be well-defined to ensure smooth delivery of the services.
- 6.6 Student support services are shown to be subjected to evaluation, benchmarking, and enhancement.

Student Support Services



| | Highest Educational Attainment | | | | | | | |
|-------------------|--------------------------------|------------|----------|----------|-------|--|--|--|
| Support Staff | High | Bachelor's | Master's | Doctoral | Total | | | |
| | School | | | | | | | |
| Library Personnel | | | | | | | | |
| Laboratory | | | | | | | | |
| Personnel | | | | | | | | |
| IT Personnel | | | | | | | | |
| Administrative | | | | | | | | |
| Personnel | | | | | | | | |
| Student Services | | | | | | | | |
| Personnel | | | | | | | | |
| (enumerate the | | | | | | | | |
| services) | | | | | | | | |
| Total | | | | | | | | |

Number of Support Staff (specify reference date)



Intake of First-Year Students (last 5 academic years)

| Academic Year | Applicants | | | | | | | | |
|---------------|-------------|-----------------------------|-------------------|--|--|--|--|--|--|
| | No. Applied | No. Applied No. Offered No. | | | | | | | |
| | | | Admitted/Enrolled | | | | | | |
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| | | | | | | | | | |
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Total Number of Students (last 5 academic years)

| Academic | | | | | | |
|----------|-------------|-----------------|-----------------|-----------------|--------------------------|-------|
| Year | 1 st | 2 nd | 3 rd | 4 th | >4 th | Total |
| | Year | Year | Year | Year | >4 th Year | |
| | | | | | | |
| | | | | | | |
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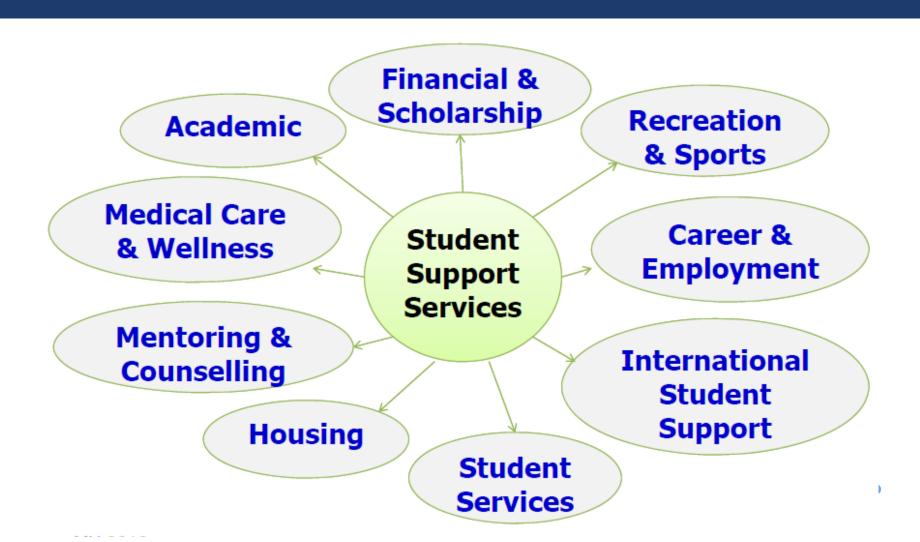
| AUN-QA Criterion 6 | Student Support Services | | | | | | |
|--------------------------|--|--|--|--|--|--|--|
| What is the requirement? | 6.5 The competences of the support staff rendering student service are shown to be identified for recruitment and deployment. These competences are shown to be evaluated to ensure their continued relevance to stakeholders needs. Roles and relationships are show to be well-defined to ensure smooth delivery of the services. | | | | | | |
| What to write? | What are the organisation units and their staff strengths in providing student services? What is the competency framework of the support staff? What are the categories and competences of the support staff? How the competences are identified, determined, developed, evaluated? What are the roles and relationships of support staff and how they are defined? How the quality of student services is measured, monitored and evaluated? How competences are aligned to the recruitment, promotion, training and development, performance management, and compensation and rewards systems? | | | | | | |
| What is the evidence? | HR regulations and policies, staff handbook, job description, competency framework, support staff competences, recruitment, training and development, performance management, compensation and rewards, organisation structures and charts | | | | | | |



| AUN-QA Criterion 6 | Student Support Services |
|--------------------------|---|
| What is the requirement? | 6.6 Student support services are shown to be subjected to evaluation, benchmarking, and enhancement. |
| What to write? | What kinds and quality of student support services are measured and monitored? How student support services are evaluated, benchmarked and improved to meet the needs of stakeholders? What improvements were implemented over the years? |
| What is the evidence? | Student feedback and surveys, service indicators, results and trend, benchmarking reports, improvement plans |



Student Supports and Services



Criterion 7 - Facilities and Infrastructure

- 7.1 The physical resources to deliver the curriculum, including equipment, material, and information technology, are shown to be sufficient.
- 7.2 The laboratories and equipment are shown to be up-to-date, readily available, and effectively deployed.
- 7.3 A digital library is shown to be set-up, in keeping with progress in information and communication technology.
- 7.4 The information technology systems are shown to be set up to meet the needs of staff and students.
- 7.5 The university is shown to provide a highly accessible computer and network infrastructure that enables the campus community to fully exploit information technology for teaching, research, service, and administration.

Criterion 7 - Facilities and Infrastructure

- 7.6 The environmental, health, and safety standards and access for people with special needs are shown to be defined and implemented.
- 7.7 The university is shown to provide a physical, social, and psychological environment that is conducive for education, research, and personal well-being.
- 7.8 The competences of the support staff rendering services related to facilities are shown to be identified and evaluated to ensure that their skills remain relevant to stakeholder needs.
- 7.9 The quality of the facilities (library, laboratory, IT, and student services) are shown to be subjected to evaluation and enhancement.

7.4 vs 7.5

- 7.4 = Software / Information System
- 7.5 = IT Hardware / Infrastructure / Network



Facilities and Infrastructure

- Stakeholders' Needs
- Alignment with Programme Objectives/Outcomes
- Maintenance & Upgrade system to standard

Source: Anuwong, K (2016)



| AUN-QA Criterion 7 | Facilities and Infrastructure |
|--------------------------|---|
| What is the requirement? | 7.8 The competences of the support staff rendering services related to facilities are shown to be identified and evaluated to ensure that their skills remain relevant to stakeholder needs. |
| What to write? | What are the organisation units and their staff strengths in providing facility services? What is the competency framework of the support staff? What are the categories and competences of the support staff? How the competences are identified, determined, developed, evaluated? How competences are aligned to the recruitment, promotion, training and development, performance management, and compensation and rewards systems? |
| What is the evidence? | HR regulations and policies, staff handbook, job description, competency framework, support staff competences, recruitment, training and development, performance management, compensation and rewards, organisation structures and charts |



| ALINI OA Critorion 7 | Facilities and Infrastructure |
|-----------------------|--|
| AUN-QA CITTETION I | |
| What is the | 7.9 The quality of the facilities (library, laboratory, IT, and |
| requirement? | student services) are shown to be subjected to evaluation |
| • | and enhancement. |
| What to write? | What are the indicators for the quality of facilities and related services (7.1 to 7.7)? How they are established, monitored and evaluated to meet the needs of stakeholders? |
| | 3. What improvements were implemented over the years? |
| What is the evidence? | Student feedback and surveys, quality indicators, results and trend, benchmarking reports, improvement plans |



Criterion 8 - Output and Outcomes

- 8.1 The pass rate, dropout rate, and <u>average time to graduate</u> are shown to be established, monitored, and benchmarked for improvement.
- 8.2 <u>Employability</u> as well as self-employment, entrepreneurship, and advancement to further studies, are shown to be established, monitored, and benchmarked for improvement.
- 8.3 Research and creative work output^k and activities carried out by the academic staff and students, are shown to be established, monitored, and benchmarked for improvement.
- 8.4 Data are provided to show directly the achievement of the programme outcomes, which are established and monitored.
- 8.5 Satisfaction level of the various stakeholders are shown to be established, monitored, and benchmarked for improvement.

| AUN-QA Criterion 8 | Output and Outcomes |
|--------------------------|---|
| What is the requirement? | 8.4 Data are provided to show directly the achievement of the programme outcomes, which are established and monitored. |
| | What are the programme outcomes? How they are measured, monitored and achieved over the last 5 years? How the programme outcomes are analysed for improvement and what improvement has been realised? |
| What is the evidence? | ELOs, achievement of ELOs, trends, graphs, improvement plans, benchmarking data, assessment results analyses and reports |



8.5

| AUN-QA Criterion 8 | Output and Outcomes |
|--------------------|---|
| What is the | 8.5 Satisfaction level of the various stakeholders are shown to |
| requirement? | be established, monitored, and benchmarked for improvement. |
| What to write? | Who are the stakeholders and how satisfaction is defined for each category of stakeholders? |
| | 2. How stakeholder's satisfaction is measured and monitored? |
| | 3. What are the results and trends of stakeholders' satisfaction over 5 years? |
| | 4. How they are analysed and benchmarked for improvement and what improvement has been realised? |
| What is the | Stakeholders' surveys, satisfaction indicators, trends, graphs, |
| evidence? | improvement plans, benchmarking data |



Criterion 8 - Output and Outcomes

Addendum

i The component "average time to graduate" may be or may not be considered based on contexts of the discipline and the country. While average time to graduate could indicate programme efficiency and may still be monitored, if average time to graduate for a postgraduate programme is not considered important in the country's higher education eco-system of the assessed institution, this component may be omitted in the evaluation process for this requirement. However, the consideration of this component is subject to the judgement by the lead assessor, upon consultation with the chief assessor.

Criterion 8 - Output and Outcomes

Addendum

j The component "employability" for master's or doctorate graduates may be or may not be considered in the assessment process based on the country's contexts. Even though it may be monitored periodically as one of the programme metrics, there may be circumstances that the graduate employability of the programme may not be a norm in the country of the assessed institution or viable indicator for measurement of the programme achievement. In this case, this component or the whole statement in the Requirement 8.2 may be omitted in the evaluation process. Alternatively, other "appropriate measures" may be used to monitor the success of the postgraduate programme. As such, similar to the Requirement 8.1, the consideration of this component or the whole Requirement 8.2 is subject to the judgement by the lead assessor, upon consultation with the chief assessor.

Criterion 8 - Output and Outcomes

Addendum

k The term "research and creative work output" may include any kind of output or deliverables produced by the academic staff and students in conjunction with the research and creative work activities carried out and performed by the academic staff and students involved in the programme. The outputs or deliverables may be in form of publication materials such as journal articles, articles or chapters in books, technical reports, monographs, artefacts, etc.

Pass rate and dropout rate

| Academic | Cohor | % completed first | | | | % dro | pout du | uring |
|----------|-------|-------------------|------|-------|-------------|-----------------|-----------------|-----------------------|
| Year | t | degree in | | | | | | |
| | Size | | | | | | | |
| | | 3 | 4 | >4 | 1 st | 2 nd | 3 rd | 4 th Years |
| | | Year | Year | Years | Year | Year | Year | & Beyond |
| | | S | S | | | | | |
| | | | | | | | | |
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Types and Number of Research Publication

(ถ้าเป็นไปได้ แยกระหว่างอาจารย์ กับนักศึกษา)

| | | | No. of | | | |
|------------------|----------------------------|----------|----------|---------------|-------|--|
| Academic Year | In-house/ Institutional | National | Regional | International | Total | Publications per Academic Staff |
| | | | | | | |
| | | | | | | |
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| | | | | | | |



1.5 & 4.5 & 8.4

- **1.5** The programme to show that the expected learning outcomes are achieved by the students by the time they graduate.
- **4.5** The assessment methods are shown to measure the achievement of the expected learning outcomes of the programme and its courses.
- **8.4** Data are provided to show directly the achievement of the programme outcomes, which are established and monitored.



