Assessing Generic Learning Outcomes of AMA Programmes

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Project Objectives and Significance

- Intends to develop a set of assessment guidelines for evaluation of students in achieving the intended generic learning outcomes of AMA programmes.

- The results of the project will provide information on whether or not intended outcomes are being achieved and how the programmes and student learning can be improved.

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Target Students

- Both full-time and part-time students enrolled in the Honours programmes (BSc(Hons)) in Investment Science,, BSc(Hons) in Statistics and Computing, BSc(Hons) in Actuarial Science offered by the Department of Applied Mathematics.
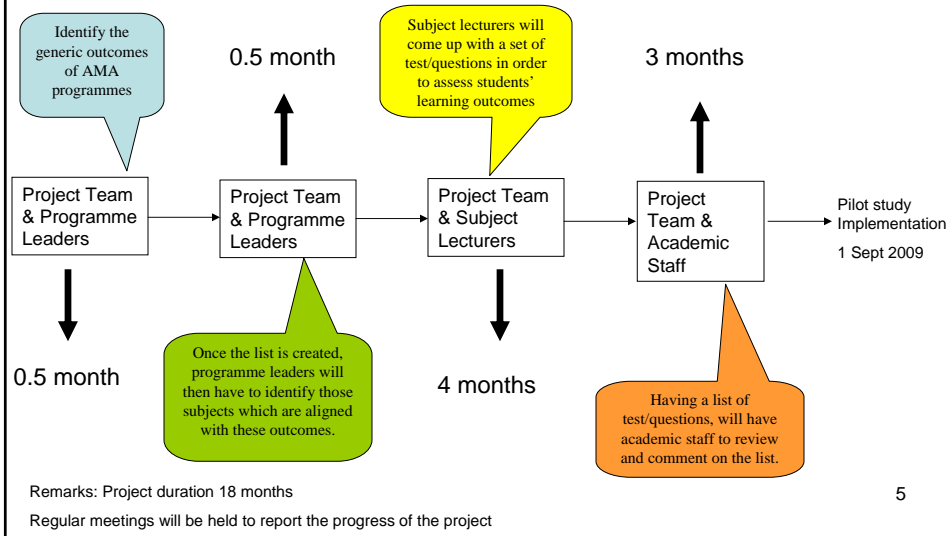
Outcomes and Deliverables

- Instruction guidebook will be constructed for departmental academic staff
- A set of sample test / examination questions will be developed for assessing the performance of students in accordance with the stated objectives
- Feedback on OBE evaluation will be generated for both academic staff and students

Project Plan Time Line

Identify the generic outcomes of AMA programmes

0.5 month

Subject lecturers will come up with a set of test/questions in order to assess students' learning outcomes

3 months

| Project Team & Programme Leaders | Project Team & Programme Leaders | Project Team & Subject Lecturers | Project Team & Academic Staff |

Pilot study Implementation

1 Sept 2009

0.5 month

Once the list is created, programme leaders will then have to identify those subjects which are aligned with these outcomes.

4 months

Having a list of test/questions, will have academic staff to review and comment on the list.

Remarks: Project duration 18 months

Regular meetings will be held to report the progress of the project

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Action Plan

– Sharing sessions will be organized to gather the views on OBE from both academic staff and students.

– Regular meeting (with Programme Leaders and Subject Lecturers) will be held:
  - to discuss the development of OBE
  - to appraise and revise the execution of the OBE.

– Instruction guidelines will be given to each academic staff to assist them in preparing his/her own set of test/examination questions.

– Training seminar/workshops on the practical implementation of OBE will also be organized for academic staff.

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Plans and Procedures for Developing and Piloting

- During (implementation)
  - Regular assessments through specific test / examination questions in predetermined subjects will be used to test students if they achieve the intended learning outcomes of a specific programme.
- After (implementation)
  - Sharing sessions will be organised to disseminate outcomes of pilot run results and
  - to collect input and feedback from colleagues and students.

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Evaluation Plan

- The effectiveness of the project will be evaluated by the following parties:
  - Academic staff
  - Mentors, alumni and external reviewers such as HK Mathematical Society, HK Statistical Society etc..
  - Students

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Impact

- The deliverables of the project will facilitate the implementation of OBE within the Department.
- The project will establish basis for future instructional and curriculum improvement in AMA that would reshape the educational experiences.
- The project will lead to new ideas in teaching methodology e.g. use of more active learning methods.

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Examples on the approach of developing a set of assessment guidelines

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Bachelor of Science (Hons) in Statistics and Computing - 63019

- **Generic outcomes**
  - To compile, organize, present, interpret, analyze, evaluate and elaborate numerical and graphical information; *(subjects identified: e.g. AMA231-Inferential Statistics)*
  - To identify and apply effectively models for the implementation of strategies across a wide range of disciplines; *(subjects identified: e.g. AMA455 - Financial Modelling)*
  - To identify, define and formulate problems; gather, evaluate and analyze data and information; generate and implement creative solutions, and evaluation outcomes; *(subjects identified: AMA262 – Statistical Data Analysis)*

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Bachelor of Science (Hons) in Investment Science

- To demonstrate numeric and computer literacy and use current information technology with effective communications (both orally and in written) and visual aids to present analysis results, justify for recommended actions and persuade perceptions of others; *(subjects identified: AMA484 – Decision Analysis, AMA488 - Simulation)*
- To be committed to open-minded inquiry and lifelong learning with a recognition of assuming multi-disciplinary and multi-skilled roles in the community-based professional practice; *(subjects identified: AMA493 – Case Studies I)*

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Outcomes

- Once we have the list of subjects, Subject Lecturers will come up with a set of sample questions in order to assess whether or not the students have achieved the defined/intended learning outcomes.
- A benchmark will also be determined by the Programme Leaders.

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Q & A

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