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**Aim:**

This project aimed to assess the feasibility of using micro-modules for the topics in the Basic Care in Gerontology course offered to Year 1 students in the Gerontology.

**Production Strategy :**

The production of the MMs adopted a number of multimedia software, including:

Articulate 360: A set of authoring tools for course developments.

Camtasia: A simple but intuitive video-editing software.

GoAnimate: Web-based tool to constructed animated video.

**Deliverables:**

4 micro-modules have been developed and used in Flipped Classroom Teaching.

In total, four MMs were produced. Each MM lasted for 20 minutes in the combination of: (1) annotated course contents; (2) tailored made video/animations, and (3) Questions for self-evaluation.

# Using MICRO-MODULES for Gerontology Students: a feasibility study

**Evaluation: Self-administered survey:**

- Ten 6-point Likert-type item to reflect their perception, usefulness and satisfaction.

**Results:**

- N=26 students completed the survey
- majority of students agreed that they had a positive learning experience
- item mean score ranged from 4.35 to 5.04.
- In particular, the mean of the items used to assess students' perceptions on the usefulness\* and satisfaction of the Micro-module were 4.94 and 4.89 respectively.

Item	Mean	SD
The content is arranged in a clear and logical way.	5.04	0.528
The content adequately explains the knowledge, skills and concepts it presents.*	5.00	0.748
The activities help you to gain a clear understanding of the subject.*	5.04	0.662
The amount of time it takes to complete the micro-modules is appropriate.	4.96	0.720
The pace of the micro-modules is appropriate.	4.81	0.749
The interactivity in the micro-modules is suitable for the content.*	4.77	0.652
The animations/ videos posted in the micro-modules are attractive.	5.04	0.720
The quality of multimedia (audio, video, and animation) used in the micro-modules is good.	4.88	0.653
I enjoyed browsing the micro-modules.	4.62	0.804
I prefer to have the lecturer delivering the contents in classroom.	4.35	1.056

**Utilization and Application:**

All students enrolled in the course accessed and completed all the activities in the Micro-modules.

(Class size=29)	MM1	MM2	MM 3	MM 4
Completion rate	N=29 (100%)	N=29 (100%)	N=29 (100%)	N=29 (100%)

**Conclusion:**

This innovative use of the micro-modules is hoped to enhance the teaching and learning process. Similar approach may be considered to other related courses so as to facilitate the self-paced learning.

The collage displays various micro-module content:
 

- Mobility Care - transferring of client:** Shows a student assisting an elderly person into a wheelchair.
- Principles of body mechanics:** A video frame showing a student demonstrating techniques.
- Articulate 360:** The software logo.
- GoAnimate:** The software logo.
- Physical Changes in the ageing Process:** Four cases (Case 1-4) illustrating different aspects of aging.
- Joints:** A slide explaining that joints are where two bones meet, strengthened by ligaments. It lists types: Fixed (Skull, teeth), Slightly movable (Spine, rib cage), and Movable (knee, elbow, finger, hip).
- Understanding Blood Pressure:** A quiz slide asking for the correct direction of blood flow by ordering vessels: Aorta (大動脈), Veins (靜脈), Capillaries (微血管), Arteries (動脈), Arterioles (小動脈), and Venules (小靜脈).
- Mobility Care - transferring of client:** Another video frame showing hand hygiene after contact with a client.