

Mastering the Learning Process

An evidence-based program to enable students to become Self-directed Learners

Program Overview

Developing students' ability to become self-directed and capable of lifelong learning is now a global educational aim, which will only increase with the rapid onset of Artificial Intelligence. As content knowledge becomes immediately available in multiple formats, the future of learning must be on students' ability to think critically, creatively, and metacognitively, and to be able to manage themselves as resilient learners.

This program draws on the most validated current knowledge on how humans learn best from cognitive science and is designed to develop both a deep understanding of the key aspects of learning process and how to apply this practically in all curriculum areas. It is founded in expert pedagogy and fully supported with the affordances of artificial intelligence - as this will be the direction of learning for the foreseeable future.

At the end of the program, students will have the competencies and confidence to take responsibility for their learning. The program progressively builds students' competence to plan, monitor, and evaluate their learning as they work through their modules and be prepared for ongoing assessments and summative examinations.

Program Outcomes

The specific performance outcomes include the competence to:

- Apply key components of the learning process in building a deep understanding of content curriculum
- Use a practical model of thinking as the key competence in planning, monitoring and evaluating learning
- Prepare a learning and revision plan for meeting the curriculum learning outcomes
- Use a range of strategies to manage all aspects of the learning and self-regulation process.

Your Online Facilitators



DENNIS SALE is the author of *Creative Teachers: Self-directed Learners* (Springer 2020) and *Creative Teaching: An Evidence-Based Approach* (Springer, 2015). These books systematically de-mystified, from a cognitive and behavioural science approach, what creative teachers actually do and how they do it, and what this means for practical teaching.

In Singapore, Dennis was a Senior Education Advisor at Singapore Polytechnic, Principal Researcher for the Ministry of Education, and Invited External Assessor for Singapore's School Excellence Model. He has trained/coached over 15,000 teaching professionals in many countries, cultural and educational contexts, as well as providing 100+ consultancies in the Asian region. Previously, Dennis taught in all sectors of the British education system.



MARK NIVAN SINGH is Deputy Director of Educational Development at Singapore Polytechnic. He leads in the implementation of major curriculum programs, which presently include the Conceive, Design, Implement and Operate engineering education framework, a multi-national initiative for enhancing engineering education globally, and the application of Flipped Learning, and Self-Directed Learning across Singapore.

He specializes in the training, mentoring, and coaching of academic personnel thorough an evidence-based framework of professional development workshops and action research projects. His present research interests are focused on how cognitive science and artificial intelligence can be integrated to enhance the design of learning environments and pedagogic practices.

He also has extensive experience as a teacher in the Singapore school system and consistently won excellent teaching awards.

Mastering the Learning Process

Program Structure & Delivery

The program comprises 2 interrelated modules that aim to ensure a full conceptual understanding of the overall learning framework and application activities to develop all the key strategies and skills involved:

- Module 1: Understanding the Learning Process
- Module 2: Using Metacognition to Plan, Monitor & Evaluate Learning.

Post-workshop support to help institutions achieve a high level of professional competence in this area (what Hargreaves & Fullan, 2012, refer to as Professional Capital) is available as an additional professional development option.

The structure and delivery are flexible and adaptive to institutional and contextual needs in the form of an online learning program, which includes the following main components:

- A series of videos and webinars on the key understandings and skills essential for mastering the learning process and becoming a self-directed learner. These enable participants to work at their own pace and participate in the live webinars with facilitators
- Comprehensive supporting content knowledge is provided to reinforce and differentiate the key concepts presented in the videos and webinars. This is accessible anytime, anywhere, and incorporates various e-tools for communication, collaboration, and self-assessment. Performance-based assessment tasks enabling the application and mastery of key concepts to all aspects of effective and efficient learning.

Assessment

The main assessment focus is formative in helping students achieve mastery of the key concepts, strategies, and skills involved. These include:

- Self-assessment of key concepts through MCQ items and reflective questions
- Performance tasks, culminating in producing learning/revision plans that incorporate appropriate strategies and skills taught in the course program.

Collaborative appraisal of curriculum materials through feedback with program facilitators, peers, and other relevant stakeholders.

For more information on speakers and webinars:

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