COURSE SYLLABUS

ILGE 102 Learning to Be a Smart Learner

Semester A (2025), 2(2-0-4) credit hours

Course coordinator:

Suchai Nopparatjamjomras, Ph.D. in Science and Technology Education suchai.nop@mahidol.ac.th

Instructors:

(CP) Assoc. Prof. Dr. Chailerd Pichitpornchai, M.D. chailerd.pic@mahidol.ac.th
(PJ) Asst.Prof. Piyachat Jittam, Ph.D. in Science and Technology Education piyachat.jit@mahidol.ac.th
(WK) Asst.Prof. Watcharee Ketpichainarong, Ph.D. in Science and Technology Education watcharee.ket@mahidol.ac.th
(NJ) Nantawachara Jirakittayakorn, Ph.D., D.D.S. nantawachara.jir@mahidol.ac.th
(ST) Dr. Sooppawat Thipyarat, Dr. rer. nat. sooppawat.thi@mahidol.ac.th
(PS) Patcharapan Siriwat, Ph.D. in Education patcharapan.sir@mahidol.ac.th
(SN) Assoc.Prof. Suchai Nopparatjamjomras, Ph.D. in Science and Technology Education suchai.nop@mahidol.ac.th

Office: Institute for Innovative Learning, Mahidol University

Course Description

This course is designed to help students to learn wisely, communicate (science) creatively, and have scientific and critical thinking.

Course Learning Outcomes:

1. To acquire information and evaluate its credibility, validity and reliability effectively.
2. To take a note in effective time.
3. To communicate a scientific information to general audiences in both oral and written forms.
4. To work as a responsible member of the community to be a smart learner.
5. To responsible in all duties (or tasks) to be a smart learner both in an individual and a team member.

Readings:

- Knaflic, C. N. (2015). *Storytelling with data: A data visualization guide for business professionals.* Retrieved from http://www.bdbanalytics.ir/media/1123/storytelling-with-data-cole-nussbaumer-knaflic.pdf
- Miller, T. (2015). *Muse of fire: Storytelling & the art of science communication.* Manchester, CT: Spoken Science.

- Kim, H. (2018). *Impact of slide-based lectures on undergraduate students' learning: Mixed effects of accessibility to slides, differences in note-taking, and memory term.* Computers & Education, 123, 13-25.
- Pauk, W., & Owens, R. J. (2013). *How to study in college.* Cengage Learning.
- Deese, J. E., & Deese, E. K. (1979). *How to study.* McGraw-Hill.
- Raygor, A. L., & Wark, D. M. (1970). *Systems for study.* McGraw-Hill Companies.

Class period: Tuesday, 1.30 - 3.30 p.m.

Room: 109, Panyapipat building

Course Outline

(Tuesday, 1.30 – 3.30 p.m.)

Week	Date	Topic	Instructors	Teaching approaches
1	August 5, 2025	Knowledge Inquiring	SN	Activity based learning
2	August 19, 2025	Learning Tools I	CP	Interactive Lecture
3	August 26, 2025	Learning Tools II	CP	Interactive Lecture
4	September 2, 2025	Speed Reading	CP	Interactive Lecture
5	September 9, 2025	Effective Note Taking I	ST, NJ	Activity based learning Presentation
6	September 16, 2025	Effective Note Taking II	ST	Activity based learning Case based learning
7	September 23, 2025	Students' Project	SN	Presentation
8	October 7, 2025 (Online)	Science Communication I	PS	Activity based learning Presentation
9	October 14, 2025	Science Communication II	PS	Activity based learning
10	October 21, 2025	Science Communication III	PS	Activity based learning Presentation
11	October 28, 2025 (Online)	Comprehensive Listening	ST	Activity based learning
12	November 4, 2025	Evaluation of Credibility, Validity and Reliability of Media	PJ WK	Activity based learning
13	November 11, 2025	Creative Communication: Infographic I (Group working)	PJ WK	Activity based learning
14	November 18, 2025	Creative Communication: Infographic II (Presenting group work)	PJ WK	Activity based learning Presentation
15	November 25, 2025	Students' Project	All	Presentation

Students' Project

Students work as a group of (6) to integrate all their learning from the course to create the media to communicate with their target group(s).

Assessment

Learning Outcomes	**Weight** (Percentage)
CLO1 Acquire information and evaluate its credibility, validity and reliability effectively.	50
CLO2 Take a note in effective time.	10
CLO3 Communicate a scientific information to general audiences in both oral and written forms.	15
CLO4 Work as a responsible member of the community to be a smart learner.	10
CLO5 Responsible in all duties (or tasks) to be a smart learner both in an individual and a team member.	15
Total	100

Scoring detail:

- Students must attend at least 80% of the course (12 classes), otherwise he/she will get "Not pass" without considering other scores.
- 75 marks for participating in 15 classes. There are 5 marks in each class; 3 marks for participating and/or submitting minor assignments and 2 marks for attending / 1.5 marks for 15 minutes late attending / 0 mark for 30 minutes late attending (take action are required during the class).
- There are 5 extra marks for presenting teamworking in the 7th class.
- There are 20 extra marks for oral presentation* (10 marks), and presentation media (10 marks) in the 15th class.

  *Students will not get the oral presentation mark if they do not attend the 15th class.
- When students have questions or want to appeal about the teaching and learning activities or assessing. Students can meet Assoc. Prof. Dr. Suchai Nopparatjamjomras which is directly responsible for the course or inform Mr. Jaturong Payomyam, Tel. 02-441-9729 to consider the case.

The evaluation is in accordance with the Mahidol University Regulations on Diploma and Undergraduate Studies, B.E. 2552 (2009) as

Symbol	Score	Decision
O: Outstanding**	≥ 85%	Pass
S: Satisfactory	60 – 84.99%	
U: Unsatisfactory	< 60%	Not Pass

**** Student must attend the at least 90% of the course.**