	2021.12.15
CTT	**2021 Critical Thinking Test Results** **2021 年度クリティカル・シンキング・テスト結果**

As a method of measuring the diploma policy "advanced thinking ability" of SILA, we utilize the "Critical Thinking Test" originally developed by us. Here report on the 2021 test results

国際教養学部のディプロマ・ポリシー「高度な思考力」を測定する方法として、本学が独自に開発した「クリティカル・シンキング・テスト」を活用している。2021 年度のテスト結果について報告する。

【Method】CT test was Conducted at Senior Thesis-1 (classes of A Howard, M. Waterfield, and P. Richards) for third-year students (students enrolled in 2019) on December 7th and 9th, 2021. Question sheets (26 questions. See example below) prepared in English were distributed and collected after the exam. Students chose the correct answer from four options and answered it in Google Forms. The number of examinees was 86.

3 年生(2019 年入学生、科目登録数 91 人)対象に、2021 年 12 月 7 日（火）・9 日（木）の Senior Thesis-1（A ハワード、M. ウォーターフィールド、P. リチャーズの各先生担当）で実施した。英語で作成した問題用紙（26 問、下記例題を参照）を配布し、試験終了後、回収をした。学生は 4 つの選択肢から正解を選び、Google Forms で解答した。受験者数は 86 名であった。

Example of Question
1. According to scientists, a fruit has seeds. A fruit develops from part of a plant's flower called an ovary. By comparison, a vegetable does not develop from a flower. A vegetable is a plant's root, stem, or leaf. According to scientists, is an eggplant a fruit or vegetable?
    a) An eggplant is a vegetable because you must cook it before you eat it.
    b) An eggplant is a fruit because it develops from a flower's ovary.
    c) An eggplant is a vegetable because its seeds are small enough to eat.
    d) An eggplant is a fruit because it grows above the ground.

【Analysis】

1) Average number of correct answers is 12.2 (correct answer ratio was 46.9% based on 26 full marks), which is shown in Table 1 together with past results. The grade has increased by 3.0 from the grade of the first year (9.2).
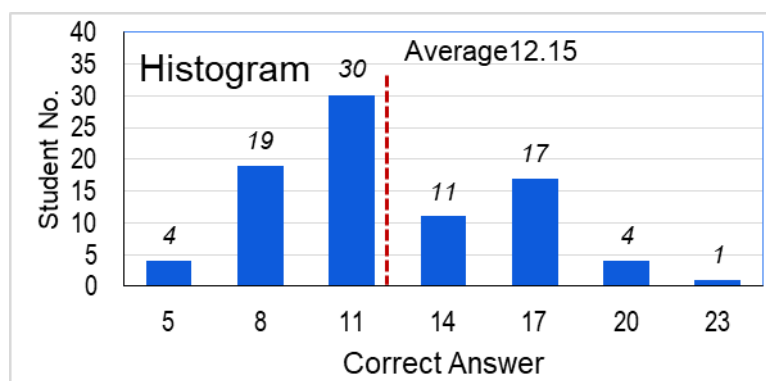
平均正答数は 12.2（26 満点、正答率 46.9%）であり、表 1 に過去の結果とともに示す。同学年の 1 年次の成績 9.2 から 3.0 上昇している。

Table 1. Average of correct answers for each year (out of 26 points)

Year	2016	2017	2018	2019	2020	2021 年	Total
1st	10.2	10.2	9.8	**9.2**	—	—	9.9
3rd	14.3	12.4	13.1	13.1	12.1	**12.2**	12.9
4th	12.6	16.7	13.8	12.5	—	—	13.9

2) The grade distribution was polarized, with peaks appearing at 11 points (correct answer ratio 42%) and 17 points (65%).

クラスの成績分布は二極化しており、11点（正答率42%）と17点（65%）の二箇所にピークが現れた。

3) Table 2 shows the relationship between questions 1 to 26 and the CT element and the percentage of correct answers for each question. The percentage of correct answers was high in (1) Identifying related information and low in (7) Deduction (Table 3).

表 2に、問題1〜26番とCT要素との関係および各問の正答率を示す。正答率は、「①関連情報の見極め」で高く、「⑦推論」で低くなった（表 3）。

Table 3. Correct answer rate for each CT element

CT Element	Question	Correct	Ratio
①Identifying related information 関連情報の見極め	3	149	**58%**
④Categorical Thinking 分類的思考法	3	142	55%
⑤Perspectival thinking 見通しを持った思考法	4	172	50%
⑥Application & evaluation 適用と評価	4	156	46%
②Evaluating reliability of information 情報の信頼性の評価	4	155	45%
③Method & strategy 手法と攻略法	4	149	43%
⑦Deduction 推論	4	122	*35%*

表 2. No. of Correct Answer

Questions		CT element	Correct Ans.
14	Tom&Ken	⑥	72
3	Fossil fuel	⑤	61
21	Order	①	60
15	Mushroom	③	60
4	New heaven	①	59
11	Europa	②	57
17	Symotims	④	57
1	Eggplant	④	54
10	Hockey	⑦	47
13	Tom&Ken	⑤	43
6	Sick school	③	36
24	Kangaroo	⑥	36
23	Kangaroo	②	35
9	Noedwell	⑤	35
8	Accident	②	34
25	Kangaroo	⑤	33
20	Order	⑦	32
18	Symotims	④	31
22	Order	①	30
16	Mushroom	③	30
5	Influenza	②	29
12	Baseball	⑦	28
26	Kangaroo	⑥	26
19	Symotims	③	23
2	Driving	⑥	22
7	Aquarium	⑦	15
	合計		614