# Using the Discussion Method

# to Student Centered Instruction

# Management of Teaching Profession students

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# Introduction on the research

- The discussion method

  ◦ Expressing opinions between the instructor and students by having conversation, exchanging opinions, asking questions and sharing knowledge and experiences

- The students' roles

  ◦ The instruction can be considered as the activities of students directly.

  ◦ The students have the participation almost **100%.**

  ◦ **"Students centered"**

# Objective

- To evaluate the instruction of educational seminar course based on students' perception in terms of the instructional quality (Y1), the courses value in skills development (Y2), and the characteristics of the graduates (Y3).

- To study the difference of the evaluation based on the perception between the students group which had different gender (X1) and GPA (X2).

# Research Methodology: Population & Sample

- **The population** was the students learning the educational seminar, Faculty of Education, Rajabhat Mahasarakham University. They have 3 classes room.

- **The sample** was 30 students selected by the cluster random sampling for one group.

# Research Methodology: Variables

○ **Independent variable** included *gender* and *GPA*. The GPA was divided into 3 groups; lower than 2.00, 2.01 - 3.00, and more than 3.00.

○ **Dependent variable** was the score got from the self assessment based on the students' perception which consisted of....

    *1) the instructional quality*

    *2) the courses value*

    *3) the characteristics of the graduate*;

# Research Methodology: Instrument

- The instrument was question of 5 rating scale adjusted by the Course Experience Questionnaire of Richardson (1994) and Ramsden (1991).

  - content validity by 3 experts

  - Reliability on Cronbach's Alpha Coefficient was equal to 0.885

# Research Methodology: *Data analysis*

- Descriptive statistics
  - Mean,
  - Standard deviation,
- Reference statistics
  - Multivariate by two-way MANOVA.

# Results #1

The first result of instructional evaluation: *Instructional quality* (Y1)

| Evaluation based on perception | GPA | Gender | | | | Total | | meaning |
|---|---|---|---|---|---|---|---|---|
| | | Female | | Male | | | | |
| | | Mean | S.D. | Mean | S.D. | Mean | S.D. | |
| 1. Instructional quality | Less than 2.00 | 4.159 | .591 | 4.628 | .445 | 4.510 | .502 | Very good |
| | 2.00-3.00 | 4.335 | .266 | 4.177 | .485 | 4.263 | .374 | Good |
| | More than 3.00 | 4.326 | .707 | 3.942 | .645 | 4.095 | .614 | Good |
| | Total | 4.290 | .393 | 4.363 | .540 | 4.334 | .481 | Good |

Levene's Test $F = 1.041$, $df1 = 5$, $df2 = 24$, $P = .416$

# Results #1 (CONT.)

The first result of instructional evaluation: *Subject value (Y2)*

| Evaluation based on perception | GPA | Gender | | | | Total | | meaning |
|---|---|---|---|---|---|---|---|---|
| | | Female | | Male | | | | |
| | | Mean | S.D. | Mean | S.D. | Mean | S.D. | |
| 2. Subject value | Less than 2.00 | 4.245 | .519 | 4.579 | .490 | 4.495 | .496 | Good |
| | 2.00-3.00 | 4.218 | .340 | 4.219 | .668 | 4.218 | .494 | Good |
| | More than 3.00 | 3.894 | .266 | 4.351 | .369 | 4.168 | .361 | Good |
| | Total | 4.171 | .359 | 4.421 | .537 | 4.321 | .483 | Good |

Levene's Test F =1.967, df1 = 5, df2 = 24, P = .120

# Results #1 (CONT.)

The first result of instructional evaluation: *Graduate Qualification (y3)*

| Evaluation based on perception | GPA | Gender | | | | Total | | meaning |
|---|---|---|---|---|---|---|---|---|
| | | Female | | Male | | | | |
| | | Mean | S.D. | Mean | S.D. | Mean | S.D. | |
| 3. Graduate qualification | Less than 2.00 | 4.315 | .378 | 4.734 | .372 | 4.638 | .396 | Very good |
| | 2.00-3.00 | 4.285 | .326 | 4.296 | .476 | 4.291 | .384 | Good |
| | More than 3.00 | 4.933 | .149 | 4.889 | .192 | 4.933 | .149 | Very good |
| | Total | 4.421 | .397 | 4.614 | .439 | 4.537 | .427 | Very good |

Levene's Test F =1.968,  df1 = 5,  df2 = 24,  P = .120

# Results #2

- The second result of the study about the difference of mean vector of the evaluation result based on the perception between the students group which had different grade average point (GPA) and gender.

| IV | Statistic Value | Value | F | Hypothesis df | Error df | P | Obs.power |
|---|---|---|---|---|---|---|---|
| Gender | Wilks' Lambda | .903 | .786 | 3.000 | 22.000 | .514 | .191 |
| GPA | Wilks' Lambda | .538 | 2.661 | 6.000 | 44.000 | .027 | .809 |
| GPA* Gender | Wilks' Lambda | .775 | .996 | 6.000 | 44.000 | .440 | .350 |

# Results #2 (cont.)

- The test result of influence between the example unit by analyzing the variance categorized by the dependent variable.

| Sources | DV | SS | df | MS | F | P | Obs.power |
|---------|-----|-----|-----|-----|-----|-----|-----------|
| Gender | Instructional quality | .003 | 1 | .003 | .016 | .902 | .052 |
| | Subject value | .394 | 1 | .394 | 1.669 | .209 | .237 |
| | Graduate characteristics | .050 | 1 | .050 | .371 | .548 | .090 |
| GPA | Instructional quality | .226 | 2 | .113 | .519 | .602 | .125 |
| | Subject value | .320 | 2 | .160 | .678 | .517 | .151 |
| | Graduate characteristics | 1.528 | 2 | .764 | 5.657 | .010* | .814 |

# Results #2 (cont.)

- The later comparison results of the evaluation results based on the perception categorized by the GPA

| GPA | mean | GPA | | |
|---|---|---|---|---|
| | | Less than 2.00 | 2.00 – 3.00 | More than 3.00 |
| Less than 2.0 | 4.639 | - | .347 | -3.28 |
| 2.00 – 3.00 | 4.291 | | - | -.642** |
| More than 3.00 | 4.933 | | | - |

**P<.01

# Students Opinions

- They ***were satisfied*** with the instruction by the discussion method at the ***highest level*** because the students had the opportunity to learn in group more and had communication skills better.

- They knew how to make a plan for sending the assignment to the lecturer as well as using new technologies.

# Suggestion & future research

## The recommendation for application:

- team work,

- students interaction,

- the appropriate numbers of assignment,

- emphasize the students to realize the responsibility,

- know how to administrate or manage time of themselves or the grou

# Suggestion & future research

**The recommendation for further research**

- should increase the sample size to be larger

- should bring the learning achievement of students to be studied

If you any questions, pleases feel free to contact

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Thanks you