

Questionnaire data processing process

一、 The questionnaire contents are presented in Appendix B and the questionnaire results are presented in Appendix C and D. Quantification of the questionnaire in Appendix C and D in the form of scoring.

Each factor was scored on a "1-5" scale to quantify the situation.

1、 The factors that can be directly quantified (Including questions 1-26 and question 31 in Appendix B)

(1) The questionnaire options of "Absolutely disagree" represents 1 point, "Largely disagree" represents 2 points, "Neutral" represents 3 points, "Largely agree " represents 4 points, and "Absolutely agree" represents 5 points.

(2) For professional foundation: The questionnaire options of "Doesn't understand at all" represents 1 point, "Only a little" represents 2 points, "Better understand" represents 3 points, "Understand" represents 4 points, and "Knows very well and has taken similar courses before" represents 5 points.

(3) For English ability, cognitive ability, innovation ability, thinking ability and participation ability: Uniform survey in multiple choice format. The questionnaire options of "Not at all" represents 1 point, "Only a little" represents 2 points, "General " represents 3 points, "Obvious" represents 4 points, and "Great " represents 5 points.

2、 Factors that are difficult to quantify directly

(1) The survey on the learning purpose is question 30 in Appendix B. It takes the multiple choice and is scored according to the number of options. The multiple choice contains eight options, with one choice representing 1 point, two and three choices representing 2 points, four and five choices representing 3 points, six and seven choices representing 4 points, and all eight choices representing 5 points.

(2) In order to comprehensively consider the course effectiveness, three questions were set for the course effectiveness, as shown in questions 27-29 in Appendix B, and the results of the initial scoring of the three were summed up and then scored on a scale of "1-5" based on the summed result.

二、 The quantitative results are presented in Appendix E and F. And the quantitative results were imported into IBM SPSS Statistics 22 (Statistical Product and Service Solutions) for correlation analysis.