



Figure 6: The contrast curve of the importance degree and the acquisition degree of professional ability

5. CONCLUSIONS

Teaching evaluation is an important part of the teaching plan of agriculture engineering. According to the characteristics of the agriculture engineering teaching, this paper constructs the teaching evaluation index system of agriculture engineering, and then uses the fuzzy comprehensive evaluation to make the evaluation results more objective and impartial, which greatly improves the scientific of professional teaching and the teaching quality of agriculture engineering.

Based on extensive questionnaire survey, this paper uses the method of fuzzy comprehensive evaluation to analyze and process the data, obtaining the following results: In terms of importance, the awareness of the professor, employers, students and graduates on general and professional competence are relatively high; and as for acquisition, the cognition of the students and graduates is consistent, while there are great differences in that of the professors and employers.

With respect to general ability, the importance scores generally higher than its acquisition. In the teaching reform, the general abilities including "the ability to apply knowledge into practice", "the ability to plan and manage time", "the ability to put forward new ideas", "decision-making ability" and "innovation and entrepreneurship" are urgently needed to be enhanced; the teaching of general abilities including "being familiar with the basic knowledge of the field", "computing skills", "follow social ethics and professional ethics" and "the desire to pursue success" can maintain the current situation; and the teaching of "research abilities" can be appropriately weakened.

At present, the teaching of professional ability is better than that of the general ability. The four professional abilities including "the comprehensive coordination and organizational management capabilities in agriculture engineering project", "the ability of communication and coordination in the design/construction/management of agriculture engineering", "the ability to cope with engineering emergencies and project risk management" and "relevant professional basic knowledge" are urgently needed to be strengthened; the teaching of the two professional abilities of "the ability of design, implementation and the corresponding data analysis of agriculture engineering laboratory test" and "the ability to master basic knowledge of materials science" can be weakened appropriately.

Because this method involves complicated matrix operation, the network can be made full use of to establish a "network-based teaching quality evaluation system" to solve the complex calculation problems. Similarly,

the system can also realize online teaching evaluation and score query; therefore, the school teaching departments can keep abreast of the teaching situation of the whole school, and the teaching units can also inquire at any time to understand devaluation the teachers. Most importantly, each teacher can understand all aspects of their assessment and evaluation through the internet, thus enhancing their advantages and avoiding their disadvantages.

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