



Jiujiang University

General Office

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Implementation Plan of Jiujiang University for the Evaluation of Course

Objective Achievement (Trial)

Courses are the basic teaching units that support the achievement of graduation requirements and the development of capabilities at the undergraduate level. The evaluation of course objective achievement is an important part of the whole process of undergraduate talent cultivation and an important basis for measuring whether students have met the graduation requirements of their major. In order to implement the guiding principles of the 20th National Congress of the Communist Party of China, deepen the reform of undergraduate education in the new era, promote the substantive development of majors, lay a solid foundation for professional accreditation and the audit evaluation of undergraduate education and teaching, and make the management of talent cultivation quality at the University more standardized, scientific and well-regulated, this implementation plan is formulated in accordance with the requirements for the evaluation of course objective achievement set out in relevant documents, including the *National Standards for Teaching Quality of Undergraduate Majors in Regular Institutions of Higher Education* (hereinafter referred to as the "National Standards"), the *Implementation Plan for the Audit Evaluation of Undergraduate Education and Teaching in Regular Institutions of Higher Education (2021–2025)*, the *Standards for Engineering Education Professional Accreditation and the Standards for Teacher Education Professional Accreditation* (hereinafter referred to as the "Accreditation Standards"), and the *Measures of Jiujiang University for the Administration of the Evaluation of Talent Cultivation Quality Achievement (Trial)*, and in light of the actual conditions of the University.

Article 1 Object of Evaluation

The courses evaluated for course objective achievement are all courses offered in the training programs of the enrolled majors except for general education elective courses, including compulsory



general education courses, basic major courses, major courses, major elective courses, compulsory teacher education courses, teacher education elective courses, concentrated practical teaching sessions, etc.

Article 2 Evaluation Cycle

The evaluation is conducted once per semester, and shall be completed after the examinations (assessments) of the courses are finished in the semester in which the courses are taught.

Article 3 Basis of Evaluation

The evaluation is based on the educational principles and policies of the Party and the State, the National Standards, the Accreditation Standards, and the assessment materials specified in the course syllabus, including examinations, tests, major assignments, laboratory (in-class practice, internship) reports, book reports, etc. To ensure that the sources of evaluation data are reasonable, the course instructor shall complete Parts I and II of the Approval Form for the Rationality of Course Objective Evaluation (Appendix 1) before the course begins; the exam paper designer shall complete Part III of the Approval Form before the final examination is administered; and teaching and examination may be carried out only after review by the course group and the College Teaching Work Committee.

Article 4 Evaluation Methods

The evaluation of course objective achievement aims to understand and provide feedback on course construction and implementation at multiple levels. According to the diverse evaluation purposes of different subjects, a variety of evaluation methods are comprehensively applied to match evaluation needs. Direct evaluation combined with indirect evaluation is mainly adopted to comprehensively evaluate course objective achievement.

(I) Direct Evaluation Method for Course Objective achievement

The data source of the direct evaluation method for course objective achievement is mainly the assessment results of each assessment component in the course syllabus that supports the course objectives. Taking a certain course as an example, the course objective achievement is calculated according to the following method:

1. Calculation of the achievement of the j-th assessment method for Course Objective i

If the achievement of Course Objective i is assessed by n assessment methods, and the total score of the j-th assessment method is s_j , and the class average of the actual scores is a_j , then the achievement of Course Objective i under the j-th assessment method can be calculated by the following formula:

$$p_{ij} = \frac{a_j}{s_j}, j=1,2,\dots,n$$

2. Calculation of the achievement of course sub-objectives

The achievement of each course sub-objective is calculated based on the assessment components and their weighting relationships (from the course syllabus), as follows:

Course Objective	Assignment (Weight ω_1) 0.1	Attendance and Class Performance (Weight ω_2) 0.2	Experiment & Practice (Weight ω_3) 0.3	Final Examination (Weight ω_4) 0.3	Mid-term Examination (Weight ω_5) 0.1	Objective Achievement
1	$p_{11} (h_{11})$	$p_{12} (h_{12})$	$p_{13} (h_{13})$	$p_{14} (h_{14})$	$p_{15} (h_{15})$	
2	$p_{21} (h_{21})$	$p_{22} (h_{22})$	$p_{23} (h_{23})$	$p_{24} (h_{24})$	$p_{25} (h_{25})$	
3	$p_{31} (h_{31})$	$p_{32} (h_{32})$	$p_{33} (h_{33})$	$p_{34} (h_{34})$	$p_{35} (h_{35})$	
4	0.85 (0.3)	0.9 (0.1)	0 (0.4)	0.85 (0.3)	0.78 (0.4)	

where i denotes the supporting weight of each assessment method for the course objective, and $p_{ij}(h_{ij})$ denote respectively the achievement of the j -th assessment method for Course Objective i (the supporting weight of the j -th assessment method for Course Objective i).

$$\begin{aligned}
 \text{Course Objective 1 Achievement} &= \frac{\sum_{i=1}^5 \omega_i p_{1i}}{\sum_{i=1}^5 \omega_i [\text{sgn}(p_{1i})]} \\
 \text{Course Objective 4 Achievement} &= \frac{\sum_{i=1}^5 w_i p_{4i}}{\sum_{i=1}^5 w_i [\text{sgn}(p_{4i})]} \\
 &= \frac{0.1 \times 0.85 + 0.2 \times 0.9 + 0.3 \times 0 + 0.3 \times 0.85 + 0.1 \times 0.78}{0.1 \times 1 + 0.2 \times 1 + 0.3 \times 0 + 0.3 \times 1 + 0.1 \times 1} \\
 &= 0.85 \times \frac{0.1}{0.7} + 0.9 \times \frac{0.2}{0.7} + 0.85 \times \frac{0.3}{0.7} + 0.78 \times \frac{0.1}{0.7}
 \end{aligned}$$

(II) Indirect Evaluation Method for Course Objective Achievement

The indirect evaluation methods for course objective achievement mainly include the questionnaire method, the discussion method, the expert evaluation method, etc. Course instructors are required to grasp the course objective achievement through indirect evaluation methods, understand the degree of students' recognition of the course objective achievement, consider the evaluations and opinions of peer experts on the course objective achievement, and make timely summaries for continuous improvement.



An example using the questionnaire method is given below:

Tools such as Wenjuanxing (Questionnaire Star) may be used to survey students on course objective achievement and collect evaluation data, so as to further form an indirect evaluation of course objective achievement. A sample is given below for reference:

Course Objective Achievement Survey for Course XXX

1. Your name: _____
2. Your gender: _____
3. Your class: _____
4. Course Objective i of this course: XXXXXXXXXXXXXXXXXXXX

After studying this course, your evaluation of the achievement of Course Objective i is ()

A. Not achieved at all B. Not achieved C. Unclear D. Basically achieved E. Fully achieved

5. Your suggestions for this course are: _____

6.....

The options are scored as follows: A = 1 point, B = 2 points, C = 3 points, D = 4 points, E = 5 points. The average score of all students' evaluations of Course Objective i is calculated and then divided by 5, which yields the indirect evaluation of Course Objective i.

(III) Overall Course Objective Achievement

Based on the characteristics of the course, the weights of the direct achievement and the indirect achievement are determined, and the achievement of each course sub-objective is calculated. The overall course objective achievement is obtained by weighting the achievement of the course sub-objectives.

Article 5 Evaluation Subjects and Person Responsible for Evaluation

The evaluation subjects of course objective achievement cover the enrolled students taking the course and the course instructors. The course leader is the person responsible for the evaluation of course objective achievement.

Article 6 Evaluation Procedure

1. The program leader convenes the course leaders to form a task matrix linking each course with the sub-indicator points of the graduation requirements based on the supporting matrix in the training program.
2. The course leader convenes the course group members to formulate (revise) the course syllabus according to the training program and the task matrix.
3. Before the course begins, the course instructor completes Parts I and II of the Approval Form for the Rationality of Course Objective Evaluation in accordance with the course syllabus, and carries out course teaching and other related work after review by the course group and the College Teaching Work Committee.

(IV) Before the final examination is administered, the exam paper designer completes Part III of the



Approval Form for the Rationality of Course Objective Evaluation, and the examination may be organized only after review by the course group and the College Teaching Work Committee.

(V) Based on the assessment results of each assessment component, the course instructor completes the Statistical Table of the achievement of Course Sub-objectives Assessed by ××× (Assessment Method) (Appendix 2) item by item, and completes the Statistical Table of Course Objective Achievement by Direct Evaluation (Appendix 3), and evaluates the course objective achievement in combination with the results of the indirect evaluation.

(VI) Based on the evaluation results of course objective achievement, the course leader and the course instructor carefully analyze and summarize the actual effects of each aspect of course teaching, identify the weak points of course teaching, formulate a plan for the continuous improvement of course teaching, complete the Analysis Report on the Course Objective achievement of the Course <XXX> of Jiujiang University (reference template, see Appendix 4 for details), and submit it to the head of the teaching and research section and the College Teaching Work Committee for review.

(VII) For courses that pass the review, the course leader and the course instructor are required to carry out teaching activities in accordance with the formulated continuous improvement measures in the next round of teaching. For courses that fail the review, the vice dean of the college in charge of teaching shall organize key backbone teachers to assist the course leader and the course instructor in completing the evaluation and analysis of the course objective achievement and in formulating a continuous improvement plan.

Article 7 Application of Evaluation Results

The evaluation results are applied to evaluate whether the contribution of the course to the indicator points of the graduation requirements has been attained, help teachers understand the characteristics and level of the course, identify the weak points of course teaching, improve the corresponding teaching links in a targeted manner, adjust teaching content, improve teaching methods, promote the reform of course teaching, and drive the continuous improvement of the quality of undergraduate talent cultivation. Materials such as the records of course objective achievement evaluation and the analysis reports shall be archived and managed by the secondary college.

Article 8 Miscellaneous

This plan shall take effect on the date of issuance and shall be interpreted by the Office of Academic Affairs.



Appendix 1: Approval Form for the Rationality of Course Objective Evaluation

Appendix 2: Statistical Table of the achievement of Course Sub-objectives Assessed by XXX

(Assessment Method)

Appendix 3: Statistical Table of Course Objective Achievement by Direct Evaluation

Appendix 4: Analysis Report on the Course Objective achievement of the Course XXX of Jiujiang University (Reference Template)

Office of Academic Affairs

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