

Brief Explanation of Stakeholder Participation in Educational Objectives and Learning Effectiveness Revision

The Programme educational objectives and learning outcomes implements a dynamic adjustment mechanism featuring a comprehensive revision every four years and targeted revisions as needed during the year. Kunming University is committed to continuously optimise curriculum content and improve the system structure to ensure that course content is constantly refined, closely aligned with the latest developments in the civil engineering industry, and effectively meets the requirements of the Programme's talent training objectives.

For example, the training objectives 1 and 2 of the 2019-version talent training programme for this major are:

Objective 1: Possess the ability to work as a civil engineer and be able to undertake professional related tasks.

Objective 2: Possess the ability to plan, design, construct, and manage civil engineering projects, as well as practical and innovative skills.

In the revision process of the 2023 - version talent training programme, the programme leader collected opinions through multiple channels such as enterprise visits, alumni follow-up surveys, and student discussions: employers proposed the need to strengthen BIM digital application and engineering ethics competency; graduates advised enhancing practical skills in complex engineering; external experts suggested supplementing requirements for green construction-related competencies.

Based on the above suggestions, the 2023-version talent training programme (Supporting Document 8-3) has introduced courses including Prefabricated Building Construction Technology, Smart Construction, BIM Software Learning, Engineering Ethics, Engineering Environmental Science, and Smart Detection of Engineering Structures. Meanwhile, the credit weight of practical courses has been increased.

The training objectives 1 and 2 of the 2023-version talent training programme have also been modified accordingly to:

Objective 1: Have good ideological and moral cultivation and scientific and cultural literacy, be able to abide by engineering ethics, professional ethics, and behavioral norms in engineering practice, and undertake and fulfill social responsibilities.

Objective 2: To be competent in the technical, management, and research work of engineering design, construction, and operation in civil engineering and related fields, to solve complex engineering problems in fields such as construction engineering, road and bridge engineering, and to possess the basic knowledge and qualities of a registered engineer.

The complete revision workflow is as follows: multi - channel collection of feedback from all stakeholders → collation, analysis and drafting of revisions by the programme team → review and validation by external industry experts → deliberation and filing by the College Teaching Committee → update of programme objectives and learning outcomes together with adaptive revision of course syllabi → submission to the University Academic Affairs Office for filing → monitoring of implementation effectiveness through achievement - degree evaluation and graduate tracking to achieve closed-loop continuous improvement.