

# **Development of Case Method-Based Modules to Improve Critical Thinking, Creativity, Communication and Collaboration Skills (4Cs) Students in Disaster Management**

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## **Abstract**

The ability to think critically, creatively, communicate and collaborate (4Cs) is very important for students to have. The 4Cs ability can be trained through case method-based learning presented in the lecture module of disaster management material. This research aims to produce a case method-based module to improve students' 4Cs ability in disaster management. This research is a Research and Development (R&D) research using the ADDIE model, with development steps namely; Analysis, Design, Development, Implementation, and Evaluation. The research sample is 30 students who are taking environmental science and disaster mitigation courses. The research instrument consisted of validation sheets and practicality questionnaires with descriptive data analysis techniques. The module feasibility testing stage is carried out by product validation by two experts. Based on the results of the research, the conclusion of the case method-based module is valid, practical, and can improve students' 4Cs abilities so that it can be used in the learning process.

**Keywords:** Module, Case Method, 4Cs Skills, Disaster Management