

C743397 : MAJOR NON-FORMAL EDUCATION
 KEY WORD: SCIENCE INSTRUCTION / ADULT SCHOOLS
 RUNGTIP TEPPRATUANGTIP : A STUDY OF PROBLEMS AND GUIDELINES FOR
 DEVELOPMENT OF SCIENCE INSTRUCTION IN ADULT SCHOOLS, CHANGWAT
 NAKHON RATCHASIMA ADVISORS : ASSISTANT PROFESSOR DR. ARCHANYA
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The purpose of this research was to study the problems and their causes in order to establish guidelines for the development of science instruction in adult schools in Changwat Nakhon Ratchasima. The following areas were analyzed : course content, management of classroom activities, utilization of instructional materials, and measurement and evaluation. Two questionnaires were used to gather data from 21 teachers of science and 344 students in adult schools totally was 365. The data was analyzed by means of descriptive statistics (% , \bar{X} , S.D.)

Findings:

1. The courses contents were found to be less useful to the students since some of them were inappropriate and inapplicable to their daily lives. There was a lack of balance in the contents. A large proportion was devoted to theory. Development guidelines suggested conducting students' needs analysis, revising the course contents, including more up-to-date and useful content in the syllabus, reducing the theoretical content, and pressing for more emphasis on the practical component. 2. As for management of classroom activities, the study revealed that there was a lack of opportunity for the teachers to conduct various types of activities. This was largely due to inadequate budget allocations resulting in a classroom atmosphere and conditions that made the students unenthusiastic. The classrooms were not well-lighted. The desks and chairs were too small. To improve this, more money should be allocated to classroom facilities for activities. The classroom conditions should be adjusted to generate a favourable learning atmosphere. This could be done by making them well-lighted and equipping them with larger desks and chairs. 3. It was also found that the teachers were unable to use various kinds of instructional materials. Both teachers and students found it inconvenient to borrow and return instructional materials. The main cause of this problem was the inadequate budget allocated to supplying these materials. There was also no organization set up to serve this need in adult schools. There were no personnel to facilitate the needs for using instructional materials. The suggested solutions were to increase the budget for instructional materials and to set up an instructional materials unit in adult schools to serve these needs. 4. In regards to measurement and evaluation, it was found that the practical part was not emphasized largely due to the lack of appropriately equipped places to administer the tests for adult students. To solve this problem, it was suggested that laboratories be set up in adult schools.

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