

Wirote Chompoo 2014: Design and Development of Magnet Program Related to Computer Science. Doctor of Education (Curriculum and Instruction), Major Field: Curriculum and Instruction, Department of Education. Thesis Advisor: Associate Professor Nataya Pилanthanonnd, Ph.D. 236 pages.

The objectives of this research were to develop the Magnet Program related to Computer Science, which is appropriate for Thailand's context and to develop its learning resources. The research processes consisted of four steps; 1) developing the Magnet Program related to Computer Science, 2) evaluating the Magnet Program, 3) developing the Magnet Program learning resources and 4) evaluating its learning resources by specialists.

The sample groups of this study were 10 specialists in computer and 13 specialists in computer learning resources, those are professors, academicians, and high school teachers. The research findings provided 1) the Magnet Program related to computer for Thai high school level, which composed of nine required courses and 14 elective courses. The required courses are including: Computer Science, Computer Graphics, Algorithm, Web Programming, Computer Network, Operating System, Information Technology, C Programming, and Computer Programming, and 2) the learning resources that appropriate with the nine required courses that were categorized into 3 groups, which are lesson plan, learning media, and measurement and evaluation tools

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Thesis Advisor's signature