



ผลสัมฤทธิ์ทางการเรียนสูงกว่ากลุ่มที่เรียนด้วยการเรียนแบบรายบุคคล อย่างมีนัยสำคัญทางสถิติ  
 ที่ระดับ .05 4. นักเรียนมีความพึงพอใจต่อมัลติมีเดียบนเครือข่ายที่พัฒนาขึ้นในระดับมาก  
 ( $\bar{X} = 4.35, S.D. = 0.83$ ) 5. นักเรียนมีความคงทนในการเรียนรู้ต่อบทเรียนบนเครือข่ายที่พัฒนาขึ้น  
 ตามเกณฑ์ที่กำหนด



มหาวิทยาลัยราชภัฏมหาสารคาม  
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**TITLE :** A Comparison of Learning Achievement in Information Technology of 8<sup>th</sup> Grade Students By Using Cooperative Learning Method and Individual Learning Method through Websed-Instruction Lessons

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## **ABSTRACT**

The objectives of this research were to 1. develop web-based instruction lessons of Information Technology Course for 8<sup>th</sup> Grade students in Vocation and Technology Learning Strand based., 2. assess the quality of the developed web-based instruction lessons on the 80/80 standardized criteria efficiency 3. compare the achievement of students who learned by using the web-based instruction lessons through the collaborative learning method and the individual learning method; 4. assess the effectiveness index of the developed web-based instruction lessons, and 5. survey the satisfaction of students with the web-based instruction lessons. 6. survey the retention of students with the web-based instruction lessons. The sample subjects were 33 8<sup>th</sup> grade students of Khuean Pitayasan School in Kosumphisai District, Maha Sarakham Province in the Chi River Education Development Project. They were selected by the simple random sampling techniques. The research instruments were web-based instruction lessons, an assessment form of the lessons, an achievement test, and a questionnaire. The statistics used were mean, standard deviation, variance, percentage and t-test (Independent sample).

The research finding showed that the average value of the web-based lesson efficiency was 80.50/82.17, which was higher than the standardized criteria. The average level of the quality of the lessons was very high ( $\bar{X} = 4.44$ , S.D. = 0.49). The achievement score of the students who

learned by using the web-based instruction lessons through the collaborative learning method was significantly higher than that of the individual learning method at the .05 level. Regarding the satisfaction, it was found that the average level of the satisfaction of the students with the web-based instruction lessons was high ( $\bar{X} = 4.35$ , S.D. = 0.83).



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