

**EMPOWERMENT-BASED SUPERVISION MODEL FOR
LEARNING MANAGEMENT CAPACITY DEVELOPMENT
OF MATHEMATICS TEACHERS, SCHOOLS UNDER
OFFICE OF PRIMARY EDUCATION SERVICE
AREA IN UPPER NORTHERN REGION**

DETC SARACHAN

DOCTOR OF PHILOSOPHY

IN RESEARCH AND DEVELOPMENT IN EDUCATION

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**GRADUATE SCHOOL
CHIANG MAI UNIVERSITY**

JULY 2015

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**A THESIS SUBMITTED TO CHIANG MAI UNIVERSITY IN PARTIAL
FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF
DOCTOR OF PHILOSOPHY
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THIS THESIS HAS BEEN APPROVED TO BE A PARTIAL FULFILLMENT OF
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Researchers are hopeful that this research will be useful to those interested in applying it to the development of Supervision. If there are any errors, the researchers look forward to getting feedback to promote and provide for valuable research even further.

Detch Sarachan



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