



DISSERTATION APPROVAL
SAKON NAKHON RAJABHAT UNIVERSITY
DEGREE OF DOCTOR OF PHILOSOPHY
PHYSICS PROGRAM

Thesis Title: Development of p - $Mn_{1-x}Ag_xSi_{1.75-y}Bi_y$ and n - $Mg_{2-x}Ag_xSi_{1-y}Bi_y$
Thermoelectric Devices

Author: Kunchit Singsoog

Dissertation Examination Committee

Chairperson

Committee

(Assist. Prof. Dr. Anek Charoenpakdee)

(Assoc. Prof. Dr. Tosawat Seetawan) and

Advisor

Committee

Committee

(Dr. Arthorn Vora-ud)

(Dr. Hassakorn Wattanasarn)

Committee

(Assoc. Prof. Dr. Wilawan Kumharn)

Approval by the Curriculum Committee

Approval by Graduate School

(Assoc. Prof. Dr. Tosawat Seetawan)

(Assoc. Prof. Dr. Hanchai Umpapol)

Chair of the Committee for Curriculum

The Director of Graduate School

Administration Approval

Sakon Nakhon Rajabhat University

Sakon Nakhon Rajabhat University

3 December 2018

Copyright of Sakon Nakhon Rajabhat University