

[DOI: 10.20472/IAC.2015.020.022](https://doi.org/10.20472/IAC.2015.020.022)

**PRAPON CHAICHAROEN**

Srinakharinwirot University, Thailand

**JARUWAN PLOYDUANGRAT**

Faculty of Education, Srinakharinwirot University, Thailand

## **THE AN APPROPRIATE STEM EDUCATION DESIGN FOR SECONDARY SCHOOL, THAILAND**

### **Abstract:**

This research is aimed to study a STEM education (STEM; Science, Technology, Engineering, Mathematics) for secondary school. And assess the possibility of bringing the model into practice. The study consisted of two stages: creating patterns by studying documents, interviewing. A focus group of 22 people. And assess the possibility of bringing the model into practice by the opinion of the administrators and teachers of secondary school of 225 people. The results showed that the modeling experts have agreed at the highest level.

And steps to assess the possibility of bringing the model into practice.

The development consists of five elements contain. 1) The course is flexible in line with the group on ethics issues. 2) Learning Management In terms of learning methods. Basic education is well equipped to handle teaching STEM. 3 ) evaluation of learning. Assess the knowledge, skills, experience, ethics. 4 ) administration and management . Teachers need to have a better understanding about the management of STEM education and resources are available to facilitate learning . 5 ) the involvement of parents and the community need to support their children's learning . Participation and support learning and teaching. Factors and conditions that encourage educational achievement in STEM related entities such as the office of the basic education, The university offered the course of Undergraduate Teaching Profession and The institute for the Promotion of Teaching Science and Technology . Policymakers must work together Cognition And to guide the activities of teaching.

### **Keywords:**

STEM education, Secondary school in Thailand, STEM teaching, Science, Technology, Engineering, Mathematics, Teaching Science and Technology