

SCIENCE
TECHNOLOGY
ENGINEERING
MATHEMATICS

TEACHER EDUCATION IN VIETNAM

AT A GLANCE

POP. TOTAL
95,360,000

POP. CHILDREN
0-15 YEARS
16,1 million

2015 PISA RANK
FOR SCIENCE
8
Vietnam

THE CURRICULUM (AGES 13-15 YEARS)

REVISIONS IN THE LAST 25 YEARS:

- Curriculum for Secondary Education: two education reforms have been officially implemented in 2006 and 2018.

IMPLEMENTATION OF THE CURRICULUM

- Ministry of Education

FRAMING OF SCIENCE – WHY IS IT IMPORTANT?

- Competency – based Education
- Skills for life long learning

“Science education aims to help students gradually develop scientific literacy through observation and experimentation, applying general knowledge and skills to solve real-life problems”

APPROACHES TO TEACHING

- Scientific practical investigation and inquiry
- Engineering practices
- Collaborative learning

TEACHING LEARNING OUTCOMES

- Self-learning competency: self-reliance; life adaption; etc.
- Communication and collaboration
- Problem-solving and creativity
- Scientific literacy



TEACHER RESOURCES FOR ASSESSMENT

This part is not inclusive in the curriculum.

SCIENTIFIC PRACTICES

Inquiry skills in science curriculum for secondary level:

- Plan and design scientific investigations – point out objectives, predictions or hypotheses.
- Conduct practical activities – do experiment and collect data.
- Analyse findings - establish relationship between variables, link to hypothesis, and draw the conclusion.
- Present scientific findings

STEM/SCIENCE TEACHER EDUCATION

YEARS REQUIRED PRE
UNIVERSITY

12

REQUIREMENTS TO
BECOME A SCIENCE
TEACHER

- Primary and Secondary teacher (grade 1-5 and grade 6-9): a 4 yrs. or 3 yrs. education of specific pedagogy for individual subject.
- Post Secondary (grade 10-12): a 4-year education of specific pedagogy for individual subject or 2 more years for higher degree.

EDUCATION LENGTH
(YEARS)

4

EXAMPLE COURSE

Professional Development for Secondary and High school teachers for integrating STEM approach in formal education (Second Secondary Education Sector Development Program)

GOV'T PROMOTION OF STEM

MINISTRY OF EDUCATION

Education Vietnam <http://www.moet.gov.vn/>

- Directive on the Strengthening of the Ability to Access the Fourth Industrial Revolution 2017.
- Second Secondary Education Sector Development Program (SESDP II) was approved for SDR 71,418,000 (\$100 million equivalent) on 8 December 2016 by ADB. One of the outputs of the program is enhancing the STEM education in schools.
- National STEM Day event is supported by MOE, MOST (Ministry of Science and Technology) and some other companies. From 2005 the event has been celebrated annually.
- The British Council in Vietnam worked with Vietnam Ministry of Education and Training (MOET) to implement a pilot project titled “Applying UK STEM Approach in Vietnam context in 2016–2017”.

“...promoting as well as pilot implementation STEM education in some schools are advocated as the solutions in educations.” (Directive No.16 of The Prime Minister, 2017)

“...strengthen of the ability to access the four industrial revolution (The 4.0 industry)..” (The Prime Minister, 2017)

