

SEAQIS

QITEP in Science



SEAMEO Regional Centre for
QITEP In Science

Triyanta

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SEAMEO Regional Centre for QITEP in Science (SEAQIS)



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Bandung

SEAMEO Regional Centre for QITEP in Science (SEAQIS)

SEAMEO: South East Asian Ministers of
Education Organization

QITEP: Quality Improvement of Teachers and
Education Personnel

SEAQIS

Established in 2009

Commitment of Indonesia Government to significantly contribute in science education through strengthening teachers and education personnel in Southeast Asia region

VISION

to be a centre of **professional excellence** in the area of **science teaching for teachers and education personnel** within the framework of **sustainable development**

MISSION

to provide **relevant and quality** programmes in professional excellence for science teachers and education personnel through **capacity building** activities, **resource sharing, research and development, and networking**

Programmes

- A. Trainings**
- B. Research Grants (inquiry based/stem education)**
- C. Ki Hajar Dewantara Award for Best Science Teachers in SEA region**
- D. Inter Centre Collaboration**
- E. Resource Materials Development**
- F. Research and Development**
- G. Staff Development (IHT and others)**
- H. Others**

Training Programmes

- A. Regular Trainings
- B. International Collaborative Trainings
- C. In Country (Customized) Trainings

**Most participants are financially
supported by
SEAQIS or its counterparts**

Training Programmes

A. Regular Trainings:

1. Environmental Education for Sustainable Development
2. Science Classroom Supervision
3. Laboratory Management
4. Earth and Space Science

Training Programmes

B. International Collaborative Trainings:

1. STELR on Renewable Energy
(with ATSE/Australia)
2. Developing Thinking Skills through IBSE for Sustainable Development
(with LAMAP/France, ISTIC-UNESCO/Malaysia)

Training Programmes

C. In-Country (Customized) Trainings:

1. In Indonesia
2. In other member countries

In collaboration with

- MoE of member countries
- District Education Office
- Others

- Developing HOTS question items
- School Laboratory Heads
- Science subject matter enrichment
- Educational Research and Teaching Innovations

Benefits from the Trainings: Alumni's Testimony

- Develop/deepen knowledge
 - Develop methods/techniques (teaching/supervising)
 - Improve self confidence
 - Share experiences-best practices
 - Share information:
 - education policies,
 - Curricula,
 - Cultures
- among SEAMEO member countries

Benefits from the Trainings: Alumni's Testimony

- Become more motivated-enthusiasm - encouraged to be creative teachers
- Aware of environmental issues
- Make new friends
- Practice in speaking English
- Meet outstanding resource persons /experts

Design a simple seismograph



Rose Flower Coloring

(Mr. Cece Sutia-SMA 1 Parongpong Bandung Barat)

Aims: produce rose flowers with expected colors

STEM contents:

- *Science*: plants, transportation within a plant, capillarity, coloring substance
- *Math*: simple data analysis (calculate coloring concentration, coloring concentration vs color performance of flowers)
- *Technology*: utilize simple equipment, ICT for dissemination
- *Engineering*: design of coloring substance insertion



SEAQIS on SEAMEO 7 Priority Areas

- Recalling to its mission and also request from SEAMEO Secretariat, QITEP in Science pays more attention on the area number 7: Adopting a 21st Century Curriculum, without not considering other priority areas
- In fact some activities connecting to area no 7 also relate to other priority areas.
e.g.
 - STEM education (area 7) with hands-on that relate to disaster risk reduction (area 3)
 - in country training at remote areas (area 2).

QITEP in Science contribution to the implementation of the 7th priority area through:

1. Conducting a National Policy Forum on IBSE in Jakarta in conjunction with 25th Anniversary Celebration of the Indonesian Academy of Sciences (2015).
2. Conducting a joint training with ISTIC-Malaysia, LAMAP-France, and RECSAM-Malaysia on Developing Thinking Skills in Science Education (2013-2015)
3. **Conducting Action Research** (Regional Level) on Adopting 21st Century Curriculum on Science and Mathematics through SEA Digital Class. It is a multi-year program 2015-2018 participated by 11 SEAMEO Member countries

QITEP in Science contributes to the implementation of the 7th priority through:

- 4. Training on STEM education** in Indonesia in collaboration with Australian Academy of Technological Science Education (ATSE), STELR and Orica. (2014-2016)
5. Training on STEM education in Indonesia in collaboration with IPST Thailand, UPI, ITB (2016)
- 6. In-country teacher training** on IBSE with several SEAMEO member countries and local national education offices.



Thank you
