

Training Course on Integrated ICT into Science Learning: “Machine Learning for Science”



To enhance teachers' knowledge and skills of ICT application in science learning, SEAQIS conducted training entitled, “Training Course on Integrated ICT into Science Learning: “Machine Learning for Science” from 1 to 3 August 2023 at SEAQIS office, Bandung.

This training, which was a follow-up action from SEAQIS collaboration with UNESCO, was attended by 31 science and ICT teachers from various junior high schools in West Java, Lampung, and West Sumatra; Mr Zuhe Safitra (Deputy Director for Administration); Mr Reza Setiawan (Deputy Director for Programme); as well as officially opened by Dr Indrawati (Director of SEAQIS).

The teachers learned how to utilise the software for creating simple Artificial Intelligent (AI), such as “Teachable Machine” and “COGLABS,” and for coding using blocks like “Scratch” and “MIT App Inventor” in order to develop students' creativities as well as science learning innovation. The materials were delivered by Mr Dian Purnama and Mr Gunawan Muhammad from SEAQIS team.

All participants in this training were excited to learn and do the given tasks. Mr Adrian as the ICT teacher from SMP Darul Hikam and Ms Rika as the science teacher from SMPN 14 Bandung stated that the materials are necessary to be taught to their students to enhance

their knowledge, specifically on IT, and create more innovative learning in science.

At the end of this training, Mr Reza Setiawan expressed and hoped that the knowledge provided could support the learning process in schools, especially in ICT and Science fields. Furthermore, he wished that SEAQIS could continue to organise this kind of training in order to increase the skills of teachers and education personnel in Indonesia.



Back in Collaboration: SEAQIS and SMP Darul Ulum 1 Unggulan Partnering for Educational Advancements in Jombang Regency "Brings New Innovations"

On June 13, 2023, SEAMEO QITEP In Science (SEAQIS) and SMP Darul Ulum 1 Unggulan renewed their collaborative efforts to introduce innovative education in Jombang Regency. Building on their partnership since 2019, the primary focus remains on the successful implementation of Science, Technology, Engineering, and Mathematics (STEM) education at SMP Darul Ulum 1. Notably, the school has achieved remarkable accomplishments, including international competition victories and prestigious awards. This collaborative initiative is set to continue for the next three years, with a specific emphasis on the effective management of STEM School Programmes.

The signing of the Memorandum of Understanding (MoU) between SEAQIS and SMP Darul Ulum 1 Unggulan marks a significant milestone in their ongoing partnership. The MoU was formally signed by Dr Indrawati (Director of SEAQIS) and Mr Mashudi, the Principal of SMP Darul Ulum 1 Unggulan. This momentous event was witnessed by prominent figures, including representatives from the education office and the Board of Directors of Darul Ulum. In addition, the signing ceremony also provided a platform for enthusiastic teachers and students to display their impressive STEM projects, further highlighting the collaborative spirit.

Drs KH Muh. Iqbal Hasyim, the Chairperson of Darul Ulum Islamic Boarding



School's Board of Directors, conveyed the institution's unwavering commitment in collaborating and pursuing knowledge. He emphasised the importance of expanding partnerships beyond SMP Darul Ulum 1 Unggulan to embrace other educational units within the Darul Ulum Education Institution. The ultimate goal is to elevate the overall quality of education and create a more promising future for all stakeholders. With this renewed collaboration between SEAQIS and SMP Darul Ulum 1 Unggulan, the stage is set for educational advancement, inspiring students, and setting new benchmarks in the field of education.



Workshop on Fun and Fascinating with Science and Mathematics



On 29 May 2023, a Workshop on Fun and Fascinating with Science and Mathematics was held in Binangkit Auditorium of SEAQIS, Bandung. The workshop was held in collaboration between SEAQIS and SEAMEO RECSAM, Malaysia. This workshop was aimed to enhance the competency of science and mathematics teachers in Bandung. In relation to that, SEAMEO RECSAM featured two facilitators, Dr Warabhorn Preechaporn (Dr Lara) and Dr Jeyaletchumi Muthiah (Dr Jaya), delivered the materials in the workshop.

The SEAMEO colour and SEAMEO song videos were played at the beginning of the event. After that, Mr Reza Setiawan as the Deputy Director for Programme of SEAQIS, delivered his speech to officially open the workshop. He mentioned that this workshop should help teachers understand better how to transform complex concepts into enjoyable ones. Therefore, the students can embrace the fun and discov-

ery within science and mathematics.

To display the fun in learning, they demonstrated how science and mathematics are related to the world we live in. They brought up a fascinating activity to prove that idea. The participants were asked to fold origami paper into a flower shape using a mathematical pattern. "Mathematics is beautiful. Mathematics is everywhere, sometimes we just do not notice it," said Dr. Lara.

To mark the end of the workshop, Dr Shah Jahan bin Assanarkuty as the Director of SEAMEO RECSAM, deliv-

ered his closing remarks. Then, both Dr Shah Jahan bin Assanarkuty and Dr Indrawati presented certificates of appreciation to the facilitators and participants.



CT Integration Training for Core Chemistry Teachers in Central Java



In an effort to keep on developing and manifesting the 21st century skills, SEAQIS is back on its feet conducting the Computational Thinking (CT) Training on 19 to 20 May 2023. This time, with high school chemistry teachers across Central Java Province.

In this training, SEAQIS' Director, Dr Indrawati, is accompanied by the Head of Programme and Training, Dr Poppy Kamalia Devi. They directly took part in training all participants that are associated with the MGMP (Musyawarah Guru Mata Pelajaran) of Central Java Province. In the training, Dr. Indrawati and Dr. Poppy Kamalia Devi taught and tutored the participants using Phet simulation.



One Fine Day in Purwokerto

Dr Indrawati (SEAQIS Director), Mr Reza Setiawan (Deputy Director for Programme), and Ms Ayu Intan (Partnership Staff) visited Muhammadiyah University of Purwokerto (UMP) on 24 May 2023. This visit was intended to discuss further the MoU that has been signed regarding the collaboration programme with postgraduate school of UMP.

SEAQIS team attended a meeting with several lecturers from postgraduate school as well as with Assoc. Prof. Dr Jebul Suroso (Rector of UMP), Ir Aman Suyadi (Vice Rector I for Academic and Partnership Sector), and Ms Kiky (Home Affairs Partnership Staff). After that, they also visited UMP Elementary School near the university where SEAQIS team along with Dr Subuh Anggoro, the Head of Primary Education Study Programme, met the teachers there and discussed a bit about the plan to build STEM class and laboratory.

During the fruitful discussion, both parties has decided to collaborate in enhancing teachers' competencies in Purwokerto through several programmes, such as joint research and publication with master students in UMP



(which also dominantly work as a teacher or a headmaster), workshop, and give an opportunity for UMP's lecturers to contribute as a reviewer or a contributor in SEAQIS Journal of Science Education (SciEd).

Through this collaboration, SEAQIS and UMP wish that many teachers, especially in Purwokerto, can come to the university to join a training or other activities conducted by UMP with SEAQIS in order to gain more knowledge in STEM or other topics in science and implement it in their respective schools.

This time around, the CT integration training is conducted in two separate places, SMAN 1 Semarang and SMA Kristen Satya Wacana, Salatiga. These trainings will also be followed up by conducting an online training in the future.



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