

SOUTHEAST ASIAN MINISTERS OF EDUCATION ORGANIZATION
REGIONAL CENTRE FOR TECHNICAL EDUCATION DEVELOPMENT
(SEAMEO TED)

PROGRESS REPORT

Two-Year Journey

Amidst the Pademic



●●● 2019-2021



OUR VISION MISSION CORE VALUES PROGRAMS

V

Vision

To be the centre of excellence of expertise in technical education development

M

Mission

To assist SEAMEO member countries in identifying education programs and finding alternative solutions for sustainable human resource development through the technical education

C

Core Values

Integrity, Innovation, Cooperation, Professionalism, and Learning

P

Programs

- Public relations and partnership
- Research and development
- Technical education and training.



OUR GOALS

1

To enhance collaboration and partnership in technical education among stakeholders

2

To promote research and development (R&D) in technical education at secondary education level

3

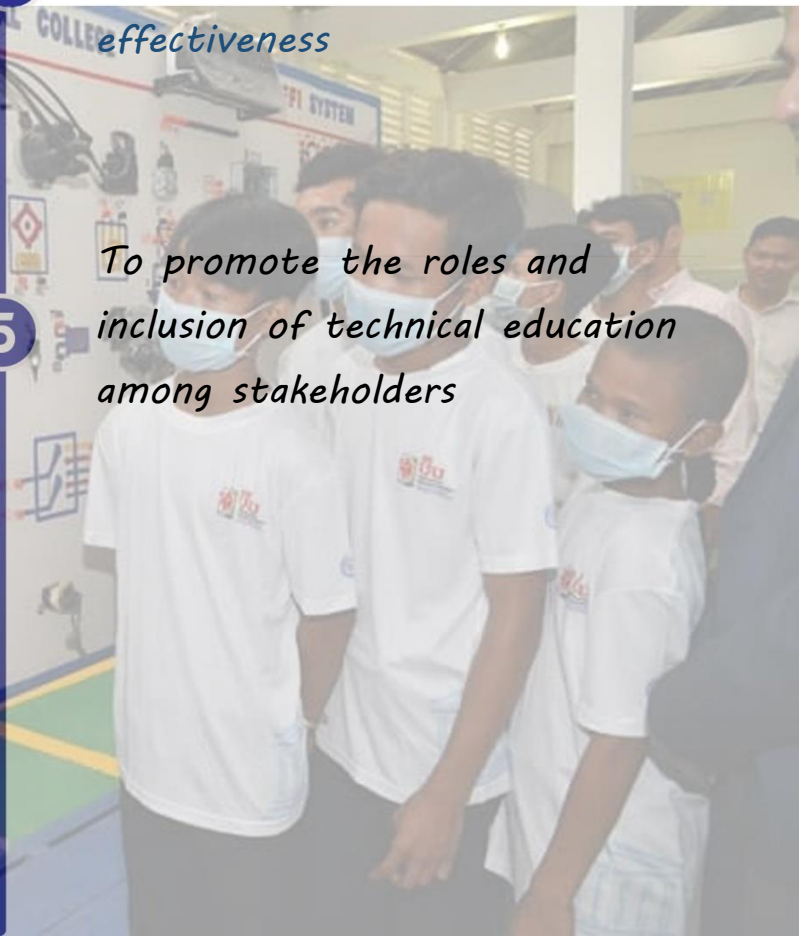
To develop a regional centre for technical education development of excellence through relevant training programs

4

To strengthen the technical education framework and effectiveness

5

To promote the roles and inclusion of technical education among stakeholders



ABOUT US

The establishment of SEAMEO TED is to support the priority area number 4 of the SEAMEO 7 priority areas, which is "Promoting technical and vocational education and training (TVET)."



H.E. Dr. Hang Chuon Naron, Minister of Education Youth and Sport of the Kingdom of Cambodia signed on the Memorandum of Agreement and Enabling Instrument to establish SEAMEO TED at the 49th SEAMEO Council Conference on 25 July 2017 in Jakarta, Indonesia.

Background

Southeast Asian Ministers of Education Organization (SEAMEO) is an international and intergovernmental organization, established in 1965 to promote regional cooperation in education, science, and culture. To achieve this, it has developed 26 regional centers of excellence located across 10/11 Member Countries. These centers are focusing on their expertise as each offers research and development in one theme of one key area (education, science, culture).

A workshop on Establishing a New SEAMEO Center in Cambodia was held on 27-29 July 2015 in Phnom Penh, Cambodia organized by MoEYS Cambodia and participated by various stakeholders including SEAMEO VOC TECH, SEAMEO SEAMOLEC, and SEAMEO Secretariat. During the workshop, important and relevant documents were developed for the preparation on the establishment of a new SEAMEO Regional Centre for Technical Education Development (TED) in Cambodia. Further, at the Asia-Pacific Conference on Education and Training: Making Skills Development Work for the Future that was held on 3-5 August 2015 in Kuala Lumpur, Malaysia, it was highlighted the commitment of the Governments in the Asia-Pacific region in ensuring quality education and skills development for sustainable future in the region.

Subsequent to a great deal of in-Country consultations, MOEYS Cambodia finally submitted the letter of intent on the establishment of SEAMEO TED in Cambodia on 27 June 2016. Then, at the SEAMEO Executive Committee (EC) Meeting held in August 2016 in Bangkok, the SEAMEO Secretariat on behalf of the Ministry of Education, Youth and Sport (MoEYS), Cambodia highlighted the need for establishing a SEAMEO Regional Centre specialized in Technical Education and Cambodia's willingness to take the initiative to establish and host the proposed Centre. The EC took note and supported the request from MOEYS Cambodia on the proposal on establishing a SEAMEO Regional Centre for TED in Cambodia and to seek the endorsement of the 39th SEAMEO High Officials Meeting on the said proposal to the SEAMEO Council for approval.

Finally SEAMEO TED was established by the royal government of Cambodia under the sub-degree No 107 dated 27 June 20217 and endorsed by the SEAMEO Council on 25 July 2017 in Jakarta, Indonesia.

Southeast Asian Ministers of Education Organization Regional Center for Technical Education Development (SEAMEO TED) is one of the 26 SEAMEO centers, which is located in the Kingdom of Cambodia. It is under umbrella of the Ministry of Education Youth and Sport (MoEYS) and the SEAMEO Secretariat. SEAMEO TED has governing board members from 11 SEAMEO Member countries including Brunei Darussalam, Cambodia, Indonesia, Laos PDR, Malaysia, Myanmar, the Philippines, Singapore, Thailand, Timor-Leste, and Vietnam. The organization's highest policy-making body is the SEAMEO Council, which comprises the 11 Southeast Asian education ministers, and the SEAMEO Secretariat is the coordinating body. It is located in Bangkok, Thailand.

SEAMEO TED is working on SEAMEO Priority Area Number 4



Dr. Gatot Hari Priowirjanto, Former Director of SEAMEO Secretariat at A workshop on Establishing a New SEAMEO Center in Cambodia which was held on 27-29 July 2015 in Phnom Penh, Cambodia organized by MOEYS and SEAMES

SEAMEO TED is one of 26 SEAMEO centers/networks in Southeast Asia to assist SEAMEO member countries in identifying technical education problems and finding alternative solutions for sustainable human resource development through technical education. The establishment of SEAMEO TED is to support the SEAMEO priority area number 4 of the seven priorities (2015-2035), which is “Promoting technical and vocational education and training (TVET).”

As an organization that has continued to nurture human capacities and explored the peoples’ fullest potential, the SEAMEO maintains its work and aspirations for development with peoples of the region to make lives better in quality and equity in education, preventive health education, culture, and tradition, information and communication technology, languages, poverty alleviation and agriculture and natural resources.

The relevant areas of SEAMEO include priority 2, addressing barriers to inclusion by providing access to basic learning opportunities to all learners through innovation in education delivery and management to provide for the previously inaccessible and vulnerable groups; priority 6, promoting harmonization in higher education and research; and priority 7, adopting a 21st-century curriculum by pursuing a radical reform through systematic analysis of knowledge, skills, and values needed to effectively respond to changing global contexts, particularly to the ever-increasing complexity of the Southeast Asian economic, sociocultural, and political environment, with ASEAN ideals in building ASEAN community.

Director's Message



Dr. Songheang Ai

Southeast Asian Ministers of Education Organization Regional Center for Technical Education Development (SEAMEO TED) is a regional center supporting and identifying issues and challenges in technical education at secondary education level. With a strong financial support as a contribution for the region from the royal government of Cambodia, and technical support from the SEAMEO secretariat located in Bangkok, Thailand, SEAMEO TED has made it possible for technical education teachers, technical and vocational high school management, and supporting administrators to be raised technically and academically in terms of public relations and partnership, research and development, and technical education and training.

This report highlights momentum of success and achievements of SEAMEO TED for fiscal year 2019/2020. A new trend transforms education from the traditional stream, called general education, to technical education stream to cater for school-to-work approach. To be productive right after, technical education at secondary education level plagues the region in a recent decade. This trend was originated from Germany, that has been implemented successfully as a dual system for secondary education level. This successful system was spread out to Japan, South Korea, China, etc. to meet the labor market needs.

Nowadays we live in a new era of Industry 4.0 enabling people to catch up with technology in order to survive and transform our daily lives. For example, internet of things, artificial intelligent, big data, industrial robotics, digital technology, 3D printing, and bio-chemical innovation are the things that people have to be aware of in terms of manufacturing and massive production. Most things will be done remotely to save time and workforce. In this regard, technical education plays an integral part in supporting people in up-skilling and communicating with robots. Technical education can make some jobs disappear and some other jobs emerge resulted from Industry 5.0. The connection between human and machine is so highly technological advancement.

I hope that the progress of SEAMEO TED can contribute to the advancement and betterment of technology, particularly for students. Finally, the school-to-work system for technical education will be plagued the region transforming youth to become a productive citizen at all costs.



Governing Board Members



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Mr. Rath Sara
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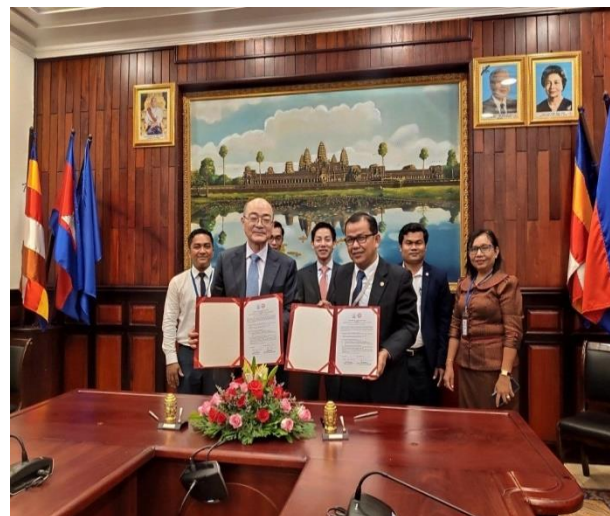
Associate Prof. Dr. Do Van Dung
President
University of Technology and
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CONTENTS

SEAMEO TED signing MoU with Korea National University (KNUE)	01
SEAMEO TED Organizing 2nd Government Board Meeting (GBM) in Phnom Penh	02
SEAMEO TED Attending the 60th Anniversary of SEAMEO RIHED and UNESCO-UNEVOC Global Forum	03
SEAMEO TED Attending the SEAMEO-TSUKUBA International Symposium VIII	04
SEAMEO TED Signing MoU with KNUE and God Study Global Education	05
Research Study on Developing Strategies Plan for SEAMEO TED	06
SEAMEO TED hosting Awareness Raising Workshop on the Labor Market Needs in IR.4.0 Era	07
SEAMEO TED Organizing its 3rd Governing Board Meeting (GBM) Virtually	08
SEAMEO TED Organizing its 3rd Governing Board Meeting (GBM) Virtually	09
SEAMEO TED's Consultative Meeting on Year Strategic Plan	10
Need Assessment Study on Effectiveness of Technical and Vocational Education Curriculum in Cambodia	11
SEAMEO TED Centre Director Delivering Key Note Address to China-ASEAN Rail Transit Talent Cultivation Summit Forum 2020	12
SEAMEO TED Signing MoU With Kampong Speu Institute of Technology (KSIT), Cambodia	13
SEAMEO TED Signing MoU With Kampongchheuteal Institute of Technology (KSIT), Cambodia	14
SEAMEO Ted's Director presenting as Speaker and Panelist at the SEAMEO-University of Tsukuba Symposium IX (Virtual)	15
SEAMEO Hosting Consultative Meeting on SEA Vocational-Technical High School Network	16
ICT Capacity Building for ICT and Vocational-Technical Teachers	17
Logistic Knowledge Training for SEA Vocational High School Network	18
International ICT Workshop on Using Open Education Resources (OER) in Teaching and Learning in the Technical Vocational Education in the SEA VoT Network	19

CONTENTS

The 1st SEA Vocational-Technical Webinar on NDI Integration into OBS and Live streaming and Energizing TVET Community	20
The 2nd SEA Vocational-Technical Webinar on Youth Empowerment Amidst the Pandemic and Favorite School for Students	22
International Training on International Trade Settlement	24
The 3rd SEA Vocational-Technical Webinar on Mechatronics System, Incorporating Green Environment and Food Processing Technology	26
International Training on Automobile Training (Encyclopedia towards Hybrid Vehicle)	28
International Training on Civil Engineering	29
International Training course on Introduction to ISO 9001:2015 and Application	30
International Training Course on Creative Digital Marketing	31
International Training Course on Basic Computer Development	32
International Training Course on Effective Business Letter Writing Skills	33
International Training Course on Comparison of CSR and Sustainability Reporting Implementation for the Continuity of SMEs in Various Countries	34
Training Course on Bahasa Indonesia or Composition Bahasa Indonesian	35
International Webinar on the Theme: TVET Development Strategies Post Pandemic	36
The Director of SEAMEO TED Presenting a Research Study at SEAMEO Congress 2021	39
International Course on “Logistics Knowledge Phase II”	40
Webinar on Transforming Innovative Initiatives into Practices	41
Training on E Certificate Management System	42
4 th SEA Vocational-Technical Webinar on “School-Based Management Practices Supporting Vocational Instruction”	43
International Webinar on the Theme: Transformative Learning in the Digital World	45
SEAMEO TED attending Centre Directors Meeting 2021: Reimagine the Future	47
SEAMEO TED Attending SEAMEO Integrated Operational Plan and Key Result Areas Workshop	48
SEAMEO TED Attending SEAMEO Integrated Operational Plan and Key Result Areas Workshop	49
SEAMEO TED signing MoU with SEAMEO RECFON	50
International Webinar on Employment Opportunity in the Asian Region: Perspectives of Private Sector	51
3 rd Consultation Network Meeting on Future Plans for SEA VoT Network	53
SEAMEO TED signed MoU with NISAI GROUP (UK)	55
SEAMEO TED signed MoU with Universitas Negeri Surabaya (UNESA), Indonesia	56



(MoU signing between SEAMEO TED and KNUE at Meeting room of MoEYS)

SEAMEO TED and the Korea National University (KNUE) signed the Memorandum of Understanding (MoU) on 23 September 2019 to establish partnership for research and human resource development of Cambodia and the Southeast Asia. The main goals of this MoU are to strengthen relationships, understanding and appreciation between people in our respective countries; to promote greater understanding and respect of each other's culture; and to develop ties of friendship through regular communication. Through this agreement, the roles of SEAMEO TED as a regional center by working with a resourceful partner is enhanced.

From this Agreement, the two parties shall encourage the following activities:

- (1) Exchange of information about technology education development;
- (2) Exchange of teaching resources, course materials and teaching strategies;
- (3) Both parties endeavor to carry out staff, experts and administrator exchange programs;
- (4) And other activities mutually agreed by the two parties.

The aforementioned activities shall be realised by means of consultation and the exchange of relevant information between appropriate members of the parties. This MoU shall become effective immediately upon being signed by the official representatives of the two parties and shall remain valid for a period of three (3) years.

KNUE is one of the leading public universities in South Korea which regularly provide high qualified and needed training and capacity development, education management and leadership programs to Korean teachers and international learners from early child education to doctoral level. KNUE becomes an international partner of SEAMEO TED which he can share resource persons, and expertise to impact the regional development through training and exchange and research activities collaboratively undertaken by the two institution in the future. Thank to this valuable cooperation.

SEAMEO TED organized its 2nd Governing Board Meeting on 24-25 October 2019 at Himawari Hotel, Phnom Penh, Cambodia. This meeting gave opportunity expertise to discuss, evaluate, suggest, and provide constructive insights into the implementation of SEAMEO TED. Eight working papers of TED were presented by SEAMEO TED and endorsed by GB members and representatives from 08 countries participating in the meeting including Brunei Darussalam, Cambodia, Malaysia, Myanmar, Philippines, Singapore, Timor Leste and Vietnam.

This meeting was presided over by H.E Ton Sa IM, Under Secretary of the Ministry of Education. She shared perspective on the ministry's significant reforms, the inclusiveness, and improvement of the technical Education quality in the digital stage and industrial development 4.0.

A representative from the SEAMEO secretariat, Dr. Wahyudi, Deputy Director for Programme and Development, also shared on the SEAMEO 7 priority area and the regional partnership and collaboration, a commitment that the SEAMEO Secretariat given to education, science, and culture development of the region. Our guest speakers from SEAMEO TED partners including LABTECH International Ltd Royal University of Cambodia, National Polytechnic Institute of Cambodia (NPIC) also contributed to the meeting by presenting on the Best Practices and Outlooks for the 21st Century Skills Development, collaborative activities, TVET for Skills Development in Cambodia, and good cooperation.



(2nd SEAMEO TED Governing Board Meeting)

SEAMEO TED delegates attended the **60th Anniversary of SEAMEO RIHED**, held on 11 November 2019 at Kiddo Hotel, Bangkok, Thailand. Objective: to strengthen the relationship and cooperation with the regional center partners.



Source: SEAMEO Secretariat; 2019

SEAMEO TED delegates a great opportunity attended the **UNESCO-UNEVOC Global Forum**, held on 2-3 December 2019 in BONN, Germany to seek international cooperation in term of technical education.



SEAMEO-TSUKUBA International Symposium VIII was held on 13-14 February 2020 co-organized by SEAMEO Centres and University of Tsukuba, under the theme: “Education for Inclusive Growth on 4th Industrial Revolution for Society 5.0”. The concept of Society 5.0 is promoted an idea based on considering society at the center rather than the industry. Taking the technology as a catalyst and driver, Society 5.0 looks for the general welfare of citizens and aims for a super-intelligent society. This symposium aimed to provide a platform for clarifying the emerging issues in educations shaped by the fourth industrial revolution, and for sharing educational reform, challenges, and issues within the scopes of global citizenship beyond region, education for sustainable development, human characters developed through school subjects, as well as soft skills and lifelong learning in this fast changing Society 5.0 driven by Industry 4.0. There were 21 papers were presented by the members. They shared the theory, case study and best practice to this symposium. The presentations were about AI in Education in Korea, Challenges and Diversity in Industry 4.0, Mathematics Education and Gender: the case of Japan, Digital Competencies for Industry 4.0, Math Education in Changing World, Digital Competence for IR 4.0: Implications for Teaching and Learning, Inclusive education and Global Citizenship, Regional Partnership for Capacity Building on Global Citizenship and 21st Century Skills: Towards a Regional Knowledge Sharing Platform, Channeling agriculture innovation transfer from universities and research centre to vocational high schools, International Collaborative Learning Program from the Perspective of ESD and SDGs Through Case Study of Collaboration between Japanese and ASEAN High schools, STEM learning and Industry 4.0 as a media for climate change impact mitigation, The New Education for Sustainable Development: Sufficiency Economy Philosophy in Thailand and Southeast Asian Countries, Securing a Health and Nutrition-Conscious Young Generation through the School and Community Education System for Society 5.0, and the Value of History in the Society 5.0. All full paper presentations will be published later for SEAMEO Journal 2021.



Source: SEAMEO SECRETARIT; 2019
(Group Photo: SEAMEO-TSUKUBA International Symposium VIII)

SEAMEO TED and KONGJU National University virtually on 25 March 2020. Based on the Memorandum of Understanding (MoU) to establish partnership on “the Dispatch of Volunteer Pre-service Teachers” to the Kingdom of Cambodia and exchange of Cambodia STEM’s teachers and educational staffs to experience Korea education system. This important event was held on

SEAMEO TED and Go Study Global (Guangxi) China, signed the Memorandum of Understanding (MoU) to establish partnership on “Establishing Energy education union and organizing international competition”. The cooperation matters focus on organizing electrical skill competition, conferences, forums, student/ faculty mobility programs, joint academic research, and joint international training center. This ceremony was held on 1st July 2020 virtually.

SEAMEO TED ATTENDING CENTER DIRECTOR MEETING (CDM) VIRTUALLY



(SEAMEO TED officers and management attended center director meeting 2020 virtually)

SEAMEO TED attended on online Center Director Meeting 2020, which was organized by SEAMEO Secretariat from Bangkok 15 – 16, July 2020 virtually. It was a great opportunity to learn, to share, and get approval on some proposed activities or projects of each regional center. Some working papers have been approved and others have been discussed for clarification. However, the significant points of acknowledge was also raised by the SEAMEO secretariat for note taking and following up actions for the next meeting.

SEAMEO TED has done a research study titled developing the Strategies for the Southeast Asian Ministers of Education Organization Regional Center for Technical Education Development (SEAMEO TED): Strengths, Weaknesses, Opportunities, and Threats (SWOT) Analysis. The research aim was to develop core strategies for its 1st five-year strategic plan establishing a direction for the future work.

The study aim is to explore the core strategies of the SEAMEO TED's five-year strategic plan. The strengths, weaknesses, opportunities, and threats (SWOT) analysis was employed to answer the research aim. 10 SEAMEO TED officers who have actively engaged in the core tasks and activities were asked to list down four quadrants of SWOT. In addition, importance-performance analysis (IPA) was also used to make sure that the findings were feasible.

Six core strategies were developed inductively consisting of (1) developing research competencies for informed decision making, policy formulation, journal publication and conference presentation; (2) enhancing the function and promotional mechanism for technical education; (3) reshaping constant regional and national cooperation and partnership with stakeholders for harmonious consensus; (4) developing legislative framework to achieve technical education effectiveness; (5) maximizing the professional development programs for staff growth; and (6) improving technical training programs for technical education teachers, school management, and supporting administrators in response to the regional needs. Findings suggest that SEAMEO TED should maximize its expertise, and financial resources in achieving these ultimate strategies to reach an optimal and regional need.



SEAMEO TED organized an Awareness Raising Workshop on Labor Market Needs in the Industrial Revolution 4.0 between Technical Education Teachers and Private Sector Representatives. The workshop was held from 22nd to 23rd September 2020 in Koh Kong province with 40 participants from 12 provinces of Cambodia. Representatives of private companies were invited as guest speakers namely the representatives of KKN Apparel, HANA Microelectronics Cambodia Co., Ltd and Yazaki (Cambodia) Products Co., Ltd. and Director of the Department of Education, Youth and Sports.

Dr. Ai Song Heang, the director of SEAMEO TED) presided over of this workshop. It is noteworthy that the honorable guest speakers and trainers representing the companies from Koh Kong Economic Zone participated and shared new knowledge, insight and expertise related to the production process, provision of work, and cooperation between the private sector and public institutions to contribute to the achievement of Cambodian Government's rectangular strategic plan, phase 4th.

In addition, the speakers highlighted the social market needs and advancement of technology, labor market needs and future job losses, the relationship between humans and robots and the development of new technologies in the digital age, the 12 types of jobs that are in demand between 2025 and 2030 and the types of jobs that are facing loss from 2030.

In addition, trainees have participated in the round table discussion with private sectors representatives of the three companies regarding the recruitment process, salary requirements and benefits, the company's long-term vision, production process, training staff, requirements for internships, study visits, qualifications for work, roles, duties and responsibilities of mechanics and engineers. Notably, all questions were answered in detail by representatives of the three companies.



Study visit at Yazaki (Cambodia) Products. Co., Ltd



Round table discussion to seek the cooperation and figure out the challenges



Study visit at Hana Microelectronic (Cambodia) Co., Ltd



Governing Board Members Attending SEAMEO TED's 3rd Governing Board Meeting virtually

SEAMEO TED organized its 3rd Governing Board Meeting virtually from its office in Phnom Penh. 11 SEAMEO TED GB members were attending from their office. This meeting aimed at presenting and seek for GB members' endorsement and comment on the whole fiscal year achievement to be seen and endorsed. In the opening session, Dr. Ethel Agnes Pascua Valenzuela, Director of SEAMEO Secretariat highlighted the undated achievement and proposal support by the SEAMEO Centers and the role of SEAMEO Centers in activating the regional progress. She also acknowledged commitment of MoEYS to strengthening Technical Education and congratulated SEAMEO TED for all significant achievements and better strengthening in enhancing the quality of technical and vocational education in the region, She also strongly support on SEAMEO TED's SEA Public-Private Partnership Network and SEA Vocational High School Network which is alignment with SEAMEO need, especially to further enrich the TVET curriculum of each country and some other key points.

In the opening session, H.E. Dr. Dy Khamboly, Deputy Director General of the Ministry of Education, Youth and Sport, and SEAMEO High Official for Cambodia delivered his opening remark. He welcomed all Governing Board Members and delegation from SEAMEO and highlighted some key points. He shared the aspects of human capital development, in particular, technical education in Cambodia and the roles of TVET on social-economic progress amid Industrial Revolution 4.0, SEAMEO TED's Five Year Strategic Plan, and the importance of human resources of Cambodia growth in Industrial Revolution 4.0. He mentioned the roles of MoEYS in supporting and promoting technical education in Cambodia. TVET is important to labor productivity and competitiveness. MoEYS is working closely with SEAMEO TED to realize the priority number 4 of SEAMEO Countries.

GB Member of Singapore was elected as the Chairperson, GB Member of Cambodia as the Vice-Chairperson, and GB Member of Vietnam as the Chief Rapporteur.

16 working papers were presented by SEAMEO Secretariat and SEAMEO TED, including: WP-01(Significant Policy, Agreements and Actions Taken on Key Agenda Items from SEAMEO Meeting in FY 2019/2020),WP-02-Informing of Governing Board Members from Malaysia, the Center Director of SEAMEO TED Director), WP-03(Follow-up Action on the 2nd GB Meeting), WP-04-Report on TED's Deputy Director for Program Position Vacancy), WP-05 (Propose for Amendment on Enabling Instrument of SEAMEO TED), WP-06 (SEAMEO TED Progress report 2019/2020),WP-07(Proposal on TED's Annual Operation Plan (AoP) for FY July 2020 – June 2021), WP-08 (Proposal on TED's 3 years Budget Plan for FY 2020/2021, 2021/2022, 2022/2023),WP-09(Proposal on Revision of SEAMEO TED 1st Five Year Strategic Plan FY 2021/2022 - 2025/2026), WP-10 (Proposal on Regional Network on Public-Private Partnership),WP-11(Proposal on SEA-Vocational-Technical High School Network), and WP-12 (Proposal on A Comparative Study on Technical and Vocational Education Teachers' Instructional Competencies). In addition four other working papers were also presented, discussed and endorsed in this important meeting including WP-13(Report on Awareness-Raising Workshop on the Labor Market Needs in IR. 4.0 Era),

WP-14(Report on Research on Assessing the online course delivery effectiveness for technical education during the Covid-19 pandemic outbreak in Cambodia),WP-15(Report of research study on Developing the Strategies for SEAMEO TED: Strengths, Weaknesses, Opportunities and Threats (SWOT) Analysis),WP-16 (Proposal on a training course on School Management and Leadership for the principals of General Technical High School).

In camera session WP 17 (Proposal on the appointment of SEAMEO TED Deputy Director for Administration) was presented and Mr. Khat promsochetra was appointed as the DDA. The meeting also agree on Proposal on Propose the venue and date for the 4th SEAMEO TED Governing Board Meeting.

In the second day of the meeting, the governing board members and SEAMEO Secretariat, Deputy Director (Dr. Wahyudi) finalized the proceeding report and e-signature. For more detailed on the whole process and output of the meeting 3rd GBM-2020, please refer to the proceeding report.



Dr. Dy Khamboly, Deputy Director General of Education Policy and Planning and SEAMEO High Official for Cambodia and SEAMEO TED Staff virtually joining the SEAMEO TED's 3rd Governing Board Meeting



SEAMEO TED had consultative meeting with relevant departments led by H.E. Dr. Hang Chuon Naron, Minister of the Ministry of Education Youth and Sport on the Revised first five year strategic

SEAMEO TED had a consultative meeting with relevant departments under the presiding over by Dr. Hang Chuon Naron, Minister of the Ministry of Education Youth and Sport. It took place on the date of 16th October 2020 at MoEYS's meeting room A. The discussion was made to collect further inputs for improving the draft of the revised first five-year strategic plan (FY 2021/2022-2025/2026) of SEAMEO TED.

Some important points and activities which the meeting has suggested for TED's implementation are as the following:

6. Defining the core roles, duties and responsibilities of the center based on the technical education framework, without overlapping the work and responsibilities of other relevant department;
7. Identifying the target schools for implementing the center's activities and cooperate with relevant department and institutions including KCIT and KSIT;
8. Defining the scope of work and priorities of the center clearly and precisely based on the human resources and budget limit in order to respond to the vision, mission, goals and strategies in the strategic plan;
9. Defining the core roles, duties and responsibilities of the center based on the technical education framework, without
1. Identifying the target schools for implementing the center's activities and cooperate with relevant department and institutions including KCIT and KSIT;
2. Defining the scope of work and priorities of the center clearly and precisely based on the human resources and budget limit in order to respond to the vision, mission, goals and strategies in the strategic plan;
3. Implementing activities that support sub-sectors and technical education programs in general and technical high schools, such as teaching coding, robotics, ICT and curriculum in the Industrial Revolution 4.0;
4. Emphasizing on institutional capacity building, structure organizing and capacity building of internal officials and self-reliant strategies.
5. Concerning on result based process and focusing on social inclusion and gender equity of Technical education development.

SEAMO TED conducted an assessment on the effectiveness of program implementation of technical education curriculum in general and technical high schools in Cambodia. The main purpose of this study is to find out the challenges and areas that need to be improved on the content of each existing curriculum. And to present improvement recommendations and development plans. From this study, SEAMO TED proposed some expected results from this study including (1) To precise and specific curriculum content in each major (Mechanical, Electronic, Electrical, Agronomy, Aquaculture, Food Processing, Accounting and Tourism Management, Information Technology and Multimedia Design); (2) General education subjects is offered in accordance with the weekly class schedule (3)

Vocational curriculum (technical, vocational and basic vocational subjects) is developed in accordance with the weekly study time and in accordance with the goals of the curriculum; and (4) Elective courses can be applied specifically to the resources availability at the school.

This study was conducted in target areas including Kompong Chheurtal General and Technical High School (Kompongthom), Institute of Community Development (Prey Veng), Sihamony General and Technical High School (Kampot), Santa Fransvo Technical High School (Takeo) and Sihamony General and Technical High School (Kampong Chhnang province). This study employed self-questionnaire for data collation administered by SEAMO TED's research team under the supervision of Director, Dr. Ai Song Heang.



Students in targeted technical high schools in Cambodia filling questionnaires administered by SEAMO TED data collection team



Dr. Ai Songheang, SEAMEO TED Director is delivering Keynote Remark in the Opening Ceremony the conference on 2020 China-ASEAN Rail Transit Talent Cultivation Summit Forum (02 December 2020)

SEAMEO TED's Director, Dr. Ai Songheang was invited to have a key note address to the opening ceremony of the China-ASEAN Rail Transit Talent Cultivation Summit Forum 2020. He virtually attended from the TED's office. In this meaningful event, Dr. Songheang highlighted the importance of the Belt and Road Initiative, China-ASEAN alliance which can be moving productively and fruitfully in a right direction together. He addressed that the themes of the forum "New Demand for 3 Talent Cultivation in the Intelligence+Era" of the conference captures the characteristic of technical education with a new introduction of railway talent training programs for some ASEAN countries. SEAMEO TED will expand its cooperation to China for railway skills development and research studies and promote technical education among learners, teachers, school management, and supporting administrators with visible investment that focuses on technical creativities and initiatives. In the same day, a Memorandum of Understanding between SEAMEO Regional Center for Technical Educational Development (SEAMEO TED) with the China – ASEAN Rail Transit Engineering Vocational Education Alliance was made to extend partnership and regional collaboration.

This important even was virtually on 02nd December 2020 virtually in **the China-ASEAN Rail Transit Talent Cultivation Summit Forum 2020**. The purpose of this MOU is to establish a range of collaborative undertakings and use domestic and overseas resources of both Parties to carry out the relevant cooperation in railway international technical education. Both Alliance and SEAMEO TED wish to pursue a collaborative relationship to the greatest extent possible through the collaborative activities including (1) Strengthening the cooperation and exchange between colleges and universities from China and ASEAN in the field of railway transit vocational education (2) Strengthening exchange between teaching staff and students between colleges and universities from the both sides (3) Uniting colleges and universities from both sides to publish curriculum related to the railway transit vocational education together and publicize the curriculum (4) Joint publication of China-ASEAN railway transit vocational education related textbooks (5) Uniting colleges and universities from both sides to conduct scientific research cooperation and technical exchange activity and (6) The development and publicity of Alliance.



SEAMEO TED and KSIT signed on an MoU at KSIT campus, Kampong Speu Province

*By extending its widely partnership in implementing training and research for the region, **SEAMEO Regional Center for Technical Education Development** signed a Memorandum of Understanding (MOU) with **Kampong Speu Institute of Technology**. The main purpose of this agreement is to establish collaborative undertakings and use domestic and overseas resources of both Parties to carry out the relevant cooperation on technical education. Both SEAMEO TED and KSIT wish to pursue a collaborative relationship to the greatest extent possible through a number of collaborative activities such as: (1) Exchange information about technical education development, share experiences (2) and knowledge in relation to the improvement of teaching and learning process; (3) Co-conduct training programs to build teacher capacity and research activities; (4) Exchange teaching resources, course materials and teaching strategies; (5) Endeavor to carry out staff, experts and administrator exchange programs; and (6) Conduct other activities mutually as agreed. This event was made on the 3rd December, 2020 at the Campus of KSIT. SEAMEO TED also had campus tours and a lot of discussion and good sharing how the two parties move forward fruitful joint activities within their capacity and possibility. Kampong Speu Institute of Technology has been recognized as SEAMEO TED' training partners on co-conducting future training in the field of electricity , mechanics, and food processing to secondary level technical and vocational teachers in Cambodia and the region.*



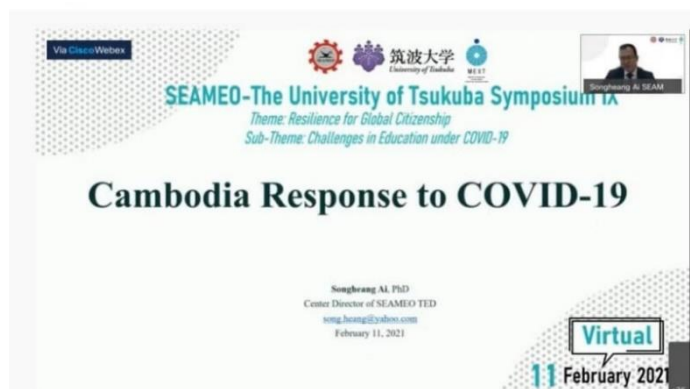
SEAMEO TED had campus tour at KSIT campus, Kampong Speu Province (03 December 2020)



Kampongchheurteal Institute of Technology (KSIT) has become one of potential partners in providing co-conduction of activities with SEAMEO Regional Centre for Technical education development. This partnership started after the Memorandum of Understanding was signed on December 09, 2020 at KSIT campus, Kampongdom province of Cambodia.



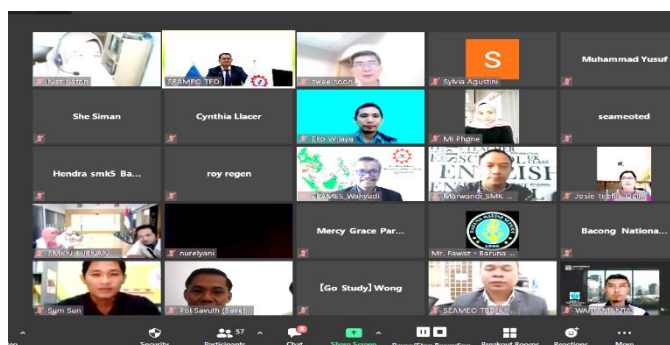
It has been such an historical remark that even though the global, particularly Cambodia is in the challenge of the Covid-19 pandemic, both parties have agreed to extend collaborative relationship to the greatest extent possible through a number of collaborative activities such as: (1) Exchange information about technical education development, share experiences (2) and knowledge in relation to the improvement of teaching and learning process; (3) Co-conduct training programs to build teacher capacity and research activities; (4) Exchange teaching resources, course materials and teaching strategies; (5) Endeavor to carry out staff, experts and administrator exchange programs; and (6) Conduct other activities mutually as agreed. Kampongchheurteal Institute of Technology has been recognized as SEAMEO TED' training partners on co-conducting future training in the field of agriculture and animal husbandry to upper secondary level technical and vocational teachers in Cambodia and the region.



SEAMEO-the University of Tsukuba Symposium IX under the themes "Resilience for Global Citizenship." was co-organized by the SEAMEO Secretariat in collaboration with the University of Tsukuba Japan. This event was conducted on 11 February 2021 virtually. The symposium provides a platform for experts, policy makers, educators, and other stakeholders to share best practice.

It was a great opportunity that SEAMEO TED's Centre Director, Dr. Songheang Ai was invited as a speaker and panelist to present Cambodia Respond to Covid-19 at this Symposium. The main outlines of his presentation were global citizenship and Covid-19 Response. Dr. Songheang Ai captured some key responses as policy, guidelines and practices done by the Ministry of Education Youth and Sport to ensure and sustain the on-going education process and learning quality amid the pandemic challenges such as developing many school guidelines, policies, and procedures, Supplies and provision of educational materials, protective kits, teaching and learning on Social media platform: Televisions, Facebooks, Websites, Video clips, BEEP..ect, Provision of Cash transfer programs, School re-opening guidelines with 3 phases, Social media: Posters, banners, songs, messaging, video clips..., School re-opening committees at national and sub-national level, Shortening curriculum for secondary education level, Steering committees at national and sub-national levels, and Work-from-home approaches. In addition he also highlighted some key support by Cambodia government on vulnerable and affected family of learners due to the pandemic for instance, the government provided of school meals for vulnerability families and 75\$ for an infected person during a quarantine period.

SEAMEO Hosting Consultative Meeting on SEA Vocational-Technical High School Network



SEAMEO TED has established a SEA Vocational-Technical High School network and fully endorsed in the 3rd GB Meeting in October 8-9, 2020. The establishment of this network is to enable all members from technical-vocational high school in Southeast Asia to make partnership share give inputs, feedback and suggestions for mutual benefit and in order to promote the quality and relevant of technical education at secondary level in the areas of Mechanics/Electronics and Manufacturing, Agriculture/Fisheries/ Animal Science, Computer Science/IT/ Informatics and Hospitality and Tourism. On December 16, 2020, at 10.00 am (China Time). SEAMEO TED organized an online orientation meeting to seek possibilities of cooperative activity implementation for **SEA Vocational-Technical High School Network and China**. The network orientation meeting was attended by approximately 58 participating members from Indonesia (20 schools); Malaysia (8 schools); Myanmar (1 school); the Philippines (15 schools); Singapore (1 school); and Cambodia (12 schools). The online orientation meeting was attended and led by the delegates from SEAMEO Secretariat (Dr. Wahyudi, Deputy Director), Go Study Global Education (Ms. QIN Ziyang aka Ms Echo, Director of International Relations) and her colleagues also participated in this important meeting. The majors are Mechanics/Electronics and Manufacturing (31 schools); Agriculture/Fisheries/Animal Science (21 schools); Computer Science/IT/Informatics (30 schools); Hospitality and Tourism (9 schools); and Automobile (8 schools).

As a result of the discussion, some key suggestions from the participants are:

1. There should be five categories for each trades because we have five trades such as (1) Mechanics/Electronics and Manufacturing (2) Agriculture/Fisheries/Animal Science (3) Computer Science/IT/Informatics (4) Hospitality and Tourism (5) Automobile. This grouping will be used for What's App Group formulation;
2. The Webinar for each group of each trade should be organized to learn and share best practices among the network members;
3. Each school will send their school information to SEAMEO TED to make a school information profile, which will be published on the website of SEAMEO TED and website of SEA Vocational-Technical High School Network;
4. SEAMEO TED and potential strategic partner Go Study Global Education China will support and coordinate the regional cooperative activity implementation;
5. Each school should strengthen cooperation by signing MoU with each other;
6. Grant proposal for a research, training program, workshops/forum or conference should be written to ask for financial supports from advanced countries or NGOs;
7. ICT and Industry 4.0 skills should be considered for teachers' professional development programs;
8. Because of the pandemic disruption, a virtual school visit should be conducted monthly among the network members to learn and share school activity.

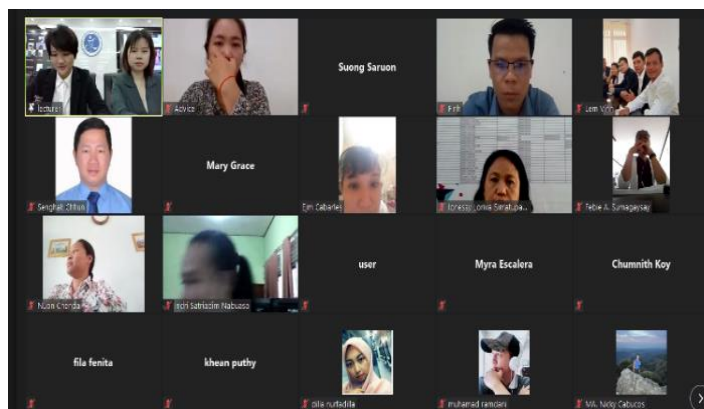
SEAMEO TED, with Go Study Global Education and Guilin University of Electronic Technology co-organized the first online Training on ICT Knowledge Capacity Building for vocational and ICT high school teachers from Southeast Asia on 17-19 December 2020. This training aims to support the needs of the new paradigm happening in teaching and learning in the 21st century for technical-vocational and ICT teachers and to enhance the ICT literacy in Southeast Asia in order for effective use in developing learning and teaching materials.

The core outlines of this training are Communication Networks, Fundamentals, Development, Trend of Modern Manufacturing Technology, the Application of IoT and Digitalization and Intellectualization of Chinese Manufacturing. Thanks to the partnership and networking, such an important training was possibly conducted. 238 participants, 131 of whom are male and 97 are females, from 39 vocational-technical high schools of 5 SEAMEO countries including Timor-Leste (8 participants), the Philippines (73 participants) Malaysia (43 participants) Indonesia (83 participants) and Cambodia (31 participants) attended the training. Most of the participants have ICT and technical-related background such as Web Programming, Web Design, IT Networking, Database Management System and Web Application Technology, and so on.

Two professors for the training, Dr. Huang Meifa and Dr. Zhang Hongmei, have teaching and research experiences in related ICT fields for 30 years and 20 years respectively contributed their knowledge in this training to provide participants with ICT skills and competency.



Logistic Knowledge Training for SEA Vocational High School Network



Two lectures of the training are Lecturer Zhuang Huizi and Lecturer Liang Yueyue. They have teaching and research experiences in logistic-related fields for many years. They have contributed their knowledge as much as possible in this field to provide teachers with logistic skills and competency.

The training program was arranged in three phases: Phase 1: Training was formed as a Live Lecture for 2 hours on the 26th January, 2021. This phase outlined on three main topics: **Current Logistics Situation, Logistic Cooperation between Guangxi Province and ASEAN, and Future Collaboration Prospects between Guangxi Province and ASEAN.**

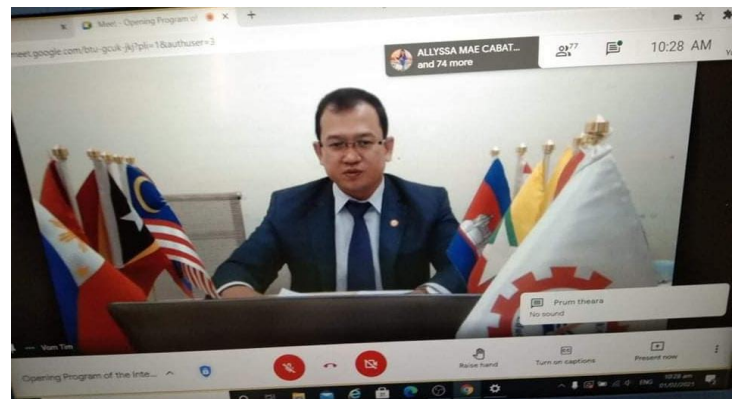
This phase 1 consisted of 55 participants from countries including Cambodia (7 participants), Indonesia (22 participants), Malaysia (5 participants), Laos (4 participants), Philippines (14 participants), Singapore (2 participants) and Timor Leste (1 participant).

The Phase 2 will be conducted early March in the form of Recorded Lecture, using China-ASEAN Technical Education Cooperation Platform and the duration of each Lecture will be 30 minutes to 60 minutes long and the number of participants shall be 30~40 people.

The phase 3 will be conducted in the middle of March in the formed as a Live Test Coach & Assessment (1hour ~ 2 hours) and the number of participants are from 30~40 people.

With the development of E-Commerce, there is dramatic shift sweeping through our supply chain system. Many countries, such as China, has established completed logistics system to adapt the era of digital economy. Nowadays, no matter Chinese enterprises or ASEAN countries' enterprises, any successful business leader will acknowledge the crucial importance of effectively organized logistics. They understand that implementing seamless logistics is a key element in keeping pace with customer demands and outperforming competitors. Whatever the size of business, the leader of a company will want to grow and expand. That probably means expanding on a regional, international or global level. Whatever business location or industry, the well-established logistics system would bring the advantages to business organizations including effectively coordinated logistics leads to positive business results, Logistics helps businesses create value, Logistics helps in reducing costs and improves efficiency, Logistics helps delivering your product at the right place timely.

However, logistics is a complex and sensitive subject, and it actually requires a lot of specific knowledge, skills and professional management to operate smoothly. To support the needs of the supply chain system in SEA happens in the era of digital economy, SEAMEO TED working together with Guangxi Transport Vocational and Technical College, proposes training and tutorials namely **Logistics Knowledge Training for SEA Vocational and Technical High School Network**. This training aimed to enhance educational institutions and logistics literacy for teachers in order to give teaching staff the opportunities in SEA to learn about the most sophisticated logistic knowledge and experiences. The participants of the training are expected to obtain the competencies as the following: (1) Learning development direction of logistics industry thoroughly, (2) Learning current situation of Chinese logistics industry, (3) Learning cutting edge logistics technology, (4) Developing skills of logistics technology,(5) Understanding and utilizing logistics technology application tools and so on.



The global education landscape has dramatic change these days. It is due to the effect of this COVID-19 pandemic. According to UNESCO it has interrupted learning and knowledge sharing globally, at its peak affecting 1.57 billion learners in 191 countries. In connection with this, the UNESCO had called for a Joint Action in Supporting Learning and Knowledge Sharing through the Open Education Resources (OER) during this pandemic to embody vital initiatives to aid the continuity of learning through formal and informal means. SEAMEOTED in partnership with Republic of the Philippines Department of Education SDO Ligao City collaboratively organized International ICT Training-Workshop on Using Open Education Resources (OER) in Teaching and Learning in the Technical Vocational Education in the SEA Vocational-Technical High School Network on 9 January-03 February (Virtually).

The four main sessions of the course in the aforesaid offered in the training to benefit to the participants as teachers from the region, particularly ICT-Vocational Teachers in the delivery of the lessons, as well as development and creation of the teaching and learning resources during this pandemic. The four sessions are (1) Introduction to OER (2) Walkthrough of Open Broadcaster Software (OBS) Studio Application (2) Setting Up a Live Stream in OBS Studio (3) Recording a Video Lesson along Technical Education (4) Using OBS Studio Virtual Camera with Different Video Conferencing Apps Concepts.

The six professors/lecturers for the training namely Dr. Ted O. Villamor, Dr. Jose P. Gamas Jr., Marlon D. Asis, Joseph F. Morco, Christian Rey M. Obejas and Reynaldo Saenz have teaching and research experiences in ICT-related fields for 6 to 25 years respectively. They have contributed their knowledge and expertise as much as possible in this field to provide teachers with ICT skills and competency in the utilization of the Open Education Resources (OER) in the teaching and learning concepts of Technical and Vocational Education. From the course, the competencies expected to be obtained by participants after accomplishing the workshops are as follows (1) Open Education Resources Utilization in Teaching and Learning (2) Manipulation of Tools and Application of Basic Open Education Resources (3) Creation of Interactive Instructional Video lessons that can be used by the learners (4) Discussions and Hands-on through Online Workshop will be used during the webinar (5) Outputs will be submitted online and will be turned over to IT Division Officers and to the SEAMEO TED. The Successful participants are totally 98 from 9 countries including Cambodia (17 participants), Indonesia (16 participants), Laos (3 participants), Malaysia (38 participants), Myanmar (8 participants), Philippines (11 participants), Singapore (1 participant), and Timor Leste (4 participant).



Since its establishment in October 2020, SEA Vocational- Technical High School network has 71 participating vocational-technical high schools which covers on 6,104 teachers and 102,116 students from totally at least nine SEAMEO Member countries including Brunei Darussalam (2 schools), Cambodia (12 schools), Indonesia (19 schools), Malaysia (8 schools), Myanmar (5 schools), Laos (2 schools), the Philippines (16 schools), Singapore (1 schools), Thailand (5 schools) and Timor Leste (1 school). The participating schools mostly technical and vocational education and training program at secondary level in the areas of Mechanics/Electronics and Manufacturing, Agriculture/Fisheries/Animal Science, Computer Science/Informatics, Hospitality and Tourism and Automobiles.

SEAMEO TED with collaboration of network members organized its first **SEA Vocational-Technical High School Webinar** on 03 March 2021. The Webinar has its aims to allow the network members (1) to share and learn from each other the best practices in technical education at secondary education level among its members; (2) to promote capacity building programs for teachers, students and stakeholders in the region; and (3) to enhance regional cooperation in technical education among the network members

The webinar was participated by 242 participants who are teachers, practitioners and students from 10 countries including the Indonesia (13), Philippines (113), Malaysia (67), Brunei Darussalam (35), Cambodia (5), Myanmar (3), Timor Leste (1), Vietnam (1), Pakistan (3) and Brundi (1). It was great pleasure that this webinar was opened by Dr. Ethel Agnes P Valenzuela, Director of SEAMEO Secretariat and presented by our speakers from the Philippines and Malaysia who are a school director, teachers and students.

At least two main topics were presented in the webinar: **(1) Getting Started of OBS studio, NDI Integration into OBS and Live streaming with Zoom or other platforms: Video Editor and / Layout Artist** presented by speakers, Mr. Brian M. Baricuatro (Teacher I) and Rolando L. Sabroso (Teacher II) from GLAN SCHOOL OF ARTS AND TRADES, Philippines and another topic is **(2) Energizing TVET Community with Strategies and Opportunities in Research and Innovation** presented by speakers: Dr. Sirhajwan Idek (Teacher), Nezatul Fazlyin (Student) Zainal and Ryan Derrick Sigoh (Student) from Keningau Vocational College, Malaysia. Five sub-topics were presented in the webinar gained much attraction and attention of participants: (1) Getting Started of OBS, Basic Configuration such as Graphics, Audio, Scenes sources and Filters. And Integration of OBS via Live streaming with zoom, Facebook, YouTube, and other platforms; (2) Basic Graphic Design using Adobe Photoshop CC; (3) Strategies and Opportunities in Research & Innovation; (4) Empowering STEAM into TVET; and (5) Programming & Engineering.

It was noted that Filipino Speakers' areas of expertise are Automotive Servicing, ICT in Computer System Servicing, Network troubleshooting, Computer Hardware and Hardwar Maintenance, Local Area Network Installation and Maintenance and Electronics, while speakers from Malaysia are expertise in STEM, Research and Innovation and TVET and IR 4.0 Skills. They have involved in various grants in different fields such as STEM and language, integrating special needs learners into mainstream co- curricular activities such as arts and innovation events, and involved in Youth STEM Summit in 2020 and won a global hackathon organized virtually by UNESCO in 2020.

The SEA Vocational-Technical High School Network assumed as an effective community which can let the network members to collect and share implacable idea, experience and new knowledge among SEAMEO family of technical and vocational education in Southeast Asia.





SEAMEO TED TED, in collaboration with Go Study Global Education and SEA Vocational-Technical High School Network Members, co-hosted the 2nd SEA Vocational-Technical Webinar 17 March 2021 virtually.

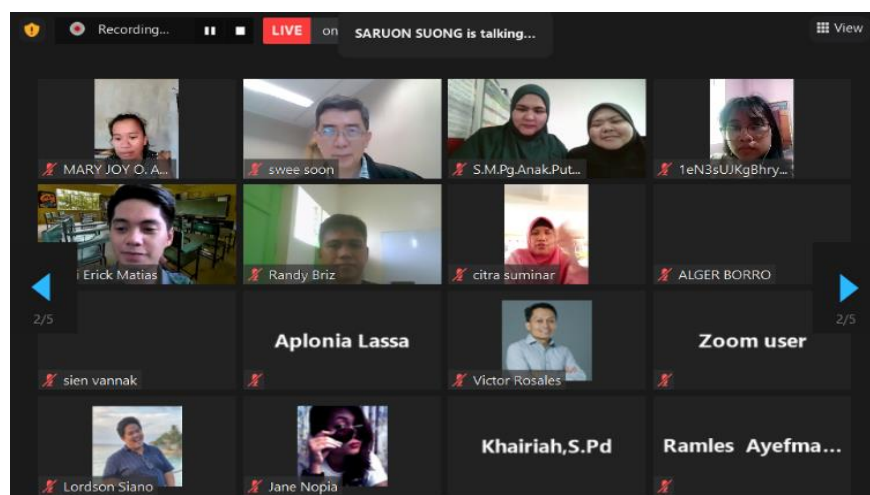
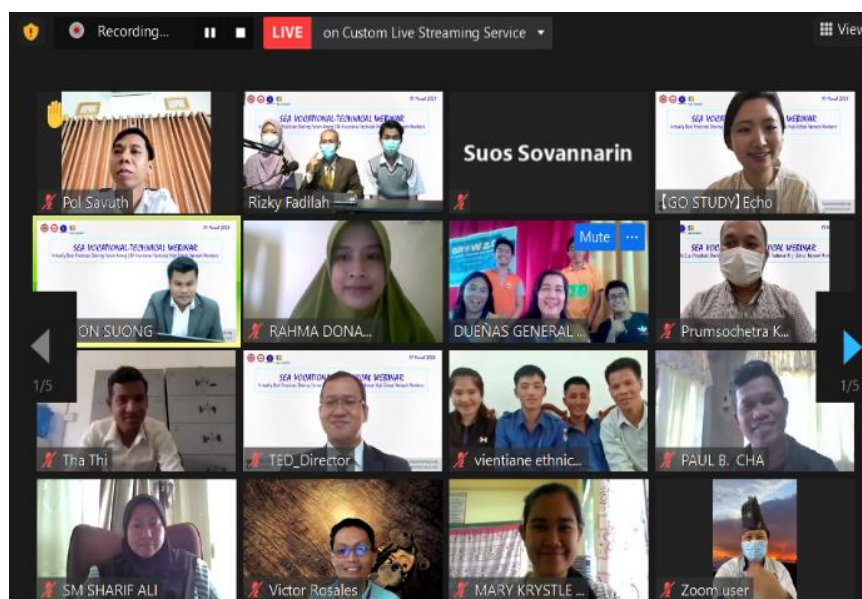
In the webinar, two topics were presented by network members: Best Practices: (1) Youth Empowerment amidst the Pandemic and Favorite School for Students and (2) Favorite School for Students by

The topic “**Best Practices: Youth Empowerment amidst the Pandemic**” was presented by Ms. Colleen Hyacinth B. Cabayao, Jan Vince L. Mendoza and Reymark L. Gil, who are the experts and senior teachers of Dueñas General Comprehensive High School, Philippines. This session is focused on the innovations, mitigating initiatives and best practices of Dueñas General Comprehensive High School. The session detailed information and description of the processes, the underlying bases and the challenges of each program and activity initiated by the school and school organizations that is geared towards learner’s development and empowerment. Innovations and mitigating for the development of the learners primarily refers the assistance and support that the school give to show that we care, and that the school is sensitive to the needs and sentiments of the stakeholders especially the learners. Best practices, on the other hand, will center on programs and activities that help develop and enhance the aptitude and attitude of the youth, the learners in facing and surviving various incidences in this time of pandemic.

In the same session, with strong coordination from the school principal of Dueñas General Comprehensive High School, Philippines, HON. MAMERTO L. PELOPERO III Municipal Mayor Municipality of Dueñas, Philippines also paid his time by sharing his video clip to congratulate and contribute this webinar and share his meaning perspectives how to empower youth enragement in the pandemic. That moment was very interesting, and inspiring for the network.

Another topic on **Favorite School for Students** was shared by Dr. Ahmad Alamsyah, Miss Rena and Rosdiana & Rizky, who are expert and graduate from SMK Taruna Terpadu 2 Bogor, Indonesia. From the second, the presenters explained very detailed on some key outline including generation Z, the characteristic of Z Generation, Gen Z's interests toward school / studying and their expectation school and finally he shared the concept how favorite school for Gen Z should be.

This webinar was participated by 184 participants, who are teachers, practitioners and students from 11 countries including Indonesia (32 participants), Malaysia (26), Philippines (94), Brunei Darussalam (10), Cambodia (9), Laos (4), Myanmar (3), Vietnam (1), Thailand (1), Singapore (1) and Timor Leste (2) and other country (1 participant). They did learn new knowledge, and obtained experience sharing by the experts on the two topics.





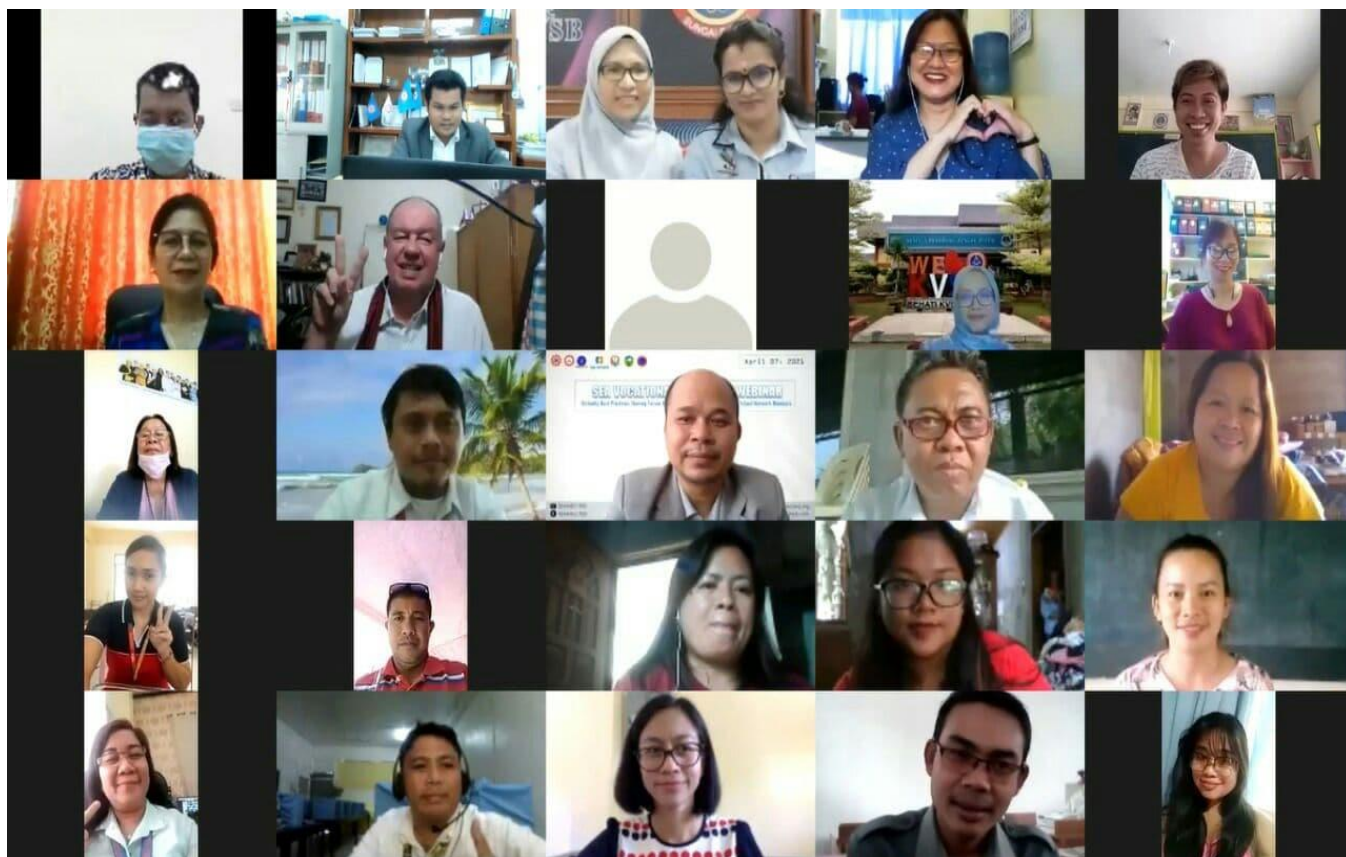
SEAMEO TED in collaboration with Go Study Global Education, together with Guangxi University of Finance and Economics (GUFE), co-organized an International Training on International Trade Settlement (How to do Business with Chinese Traders) to Southeast Asian teachers and Students on 23-24 March, 2021 virtually.

The objective of the training was to help participants understand the fundamentals and basic methods of international settlement, acquire the basic skills in the international settlement, and enable them to have more idea in doing business with Chinese traders more practically. This international training was made specially to share basic knowledge to high school teachers and university students in Southeast Asia. This training was attended by 72 participants from different countries, most of whom are from SEA Vocational-Technical High School Network members including Cambodia (35), Indonesia (19), Malaysia (4), Myanmar (2), the Philippines (7), Thailand (2), and Timor-Leste (3).

This training was lectured by, **Dr. Jules Harris DANARSON**, the professor of International Trade of the GUFE. Prof. Harris has teaching and research experiences in international trade, International Taxation, Business Communication and International Business Negotiations for many years. He is also an international trade expert who has been in China for 10 years. He is very familiar with Chinese international trade situation. It is noted that **Guangxi University of Finance and Economics or GUFE** is a unique and influential finance and economics university in Southwest China with strong characteristics in economics and management education and distinctive features of internationalization in China-ASEAN region.

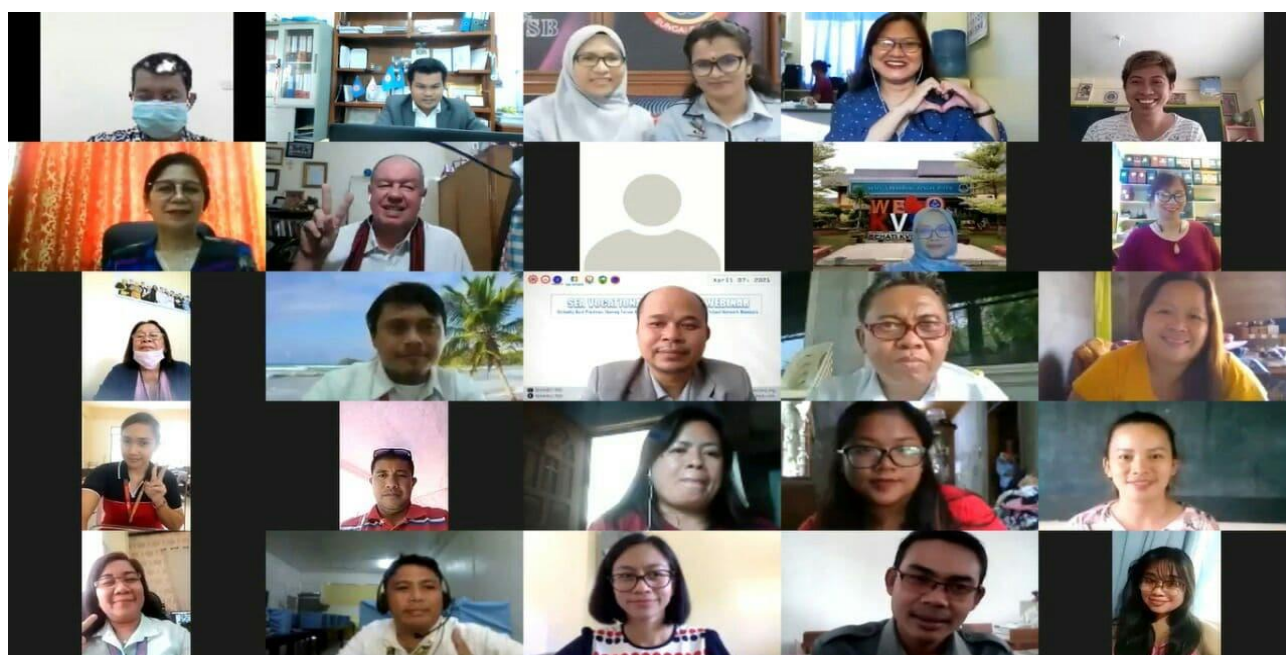
It was very interesting that the participants could learn and understand the important settlement tools of international trade, which was the main outline of the course, particularly Concepts, Types and procedure of Letter of Credits (L/C) (Revocable of Letter of Credits, Irrevocable of Letter of Credits, Confirmed of Letter of Credits, Transferable of Letter of Credits, Revolving of Letter of Credits, Standby of Letter of Credits, Letter of Credits at sight, and Red clause of Letter of Credits) and methods of international trade settlement in the first session. In addition, the participants also learned about the Concepts and Procedures of Collection, Banking & Business procedure, Application of Remittance, and Doing Business with China, followed by a Case Study in the second session of the course.





The 3rd SEA Vocational-Technical Webinar on Mechatronics System, Incorporating Green Environment and Food Processing Technology was co-organized by SEAMEO TED, Go Study Global Education and SEA Vocational-Technical High School Network on 07 April 2021 virtually. The webinar was registered by 247 respondents from the Philippines (185), Malaysia (38), Indonesia (13) and Cambodia (10) and Timor Leste (1). It was such a fruitful lesson-learning and knowledge sharing among the SEA Vocational-Technical High School Network members through three main topics. This even was given opening remarks by Dr. Indra Muis, Bina Insani University Bekasi, West Java Indonesia. He appreciated the three network members from the Philippines, Malaysian and Indonesia for good contribution on their lesson learn to the other network members as SEAMEO Family.

The first topic on SAPW SMSCP (Mechatronics System Certificate) was presented by Mr. Samarn, senior teacher of SMTI Yogyakarta Vocational High School, Indonesia. The main outline was about the fact and traditional approach of mechanical engineering, electrical engineering and computer science, and system approach. He mainly highlighted the mechatronic system, system analysis, module and applications of components, characteristics and design function in the system, and physical principles characteristics, and limit value and source of error.



The second topic on Incorporating Green Environment in Inventing Smart ECM)) was presented by Ms. ARNI SYAFINAZ BT ARIFFIN, Ms. YOGESWARY A/P SUBRAMANIAM and Ms. NORHAYATI BINTI ABU HASAN, the subject matter experts of vocational and technical education of KOLEJ VOKASIONAL SUNGAI BULOH, Malaysia.

They mainly explained about SMAW equipment, electrode, welding waste, electrode waste management, DC Smart Electrode Crushing Management project (DC smart ECM), the characteristics of DC Smart ECM, the difference of manual method and DC Smart ECM. The effectiveness of DC SMART ECM, in term of Time Saving. And the implication of DC SMATT ECM for lecturers and students.

The last topic on Food Processing was presented by Ms. Cynthia, Secondary School Principal I of Maonon National High School, Philippines. The last topic on Food Processing was presented by Ms. Cynthia, Secondary School Principal I of Maonon National High School, Philippines. Some key activities of the school food processing project shared in her presentation were student's development, community linkage and networking, higher education enrolment opportunity in local community college to poor students and school's extra-curricular activities such as Street Dance Competition when we bagged the championship award from the competition. Her presentation was ended with her school future plan for new normal practice ensure the learning accessibility and quality by encouraging teachers to prepare video lesson showing the process and proper ways of accomplishing the Food Processing Procedures, such as 10-day Immersion obligation for students (equivalent to 80-hour practicum) and also putting up of Pasalubong Center (Take-away store) for our students' finished products.

Finally closing remarks by Mr. Khat Promsochetra, DDA of SEAMEO TED. He encouraged all network work members to actively get involved in further regional and international activities organized by SEAMEO TED and its partners to gain more knowledge and experience which is importantly for professional development.



With the acceleration of industrialization process in ASEAN countries, the automobile industry has been an important driving force in ASEAN economies, contributing at least \$177 billion to ASEAN's gross domestic product and creating 2.4 million jobs in the region. On the other hand, the car ownership in ASEAN witnessed a skyrocketed increase in these years.

Understanding the automobile industry between China and ASEAN countries becoming closer and closer, SEAMEO TED in collaboration with Go Study Global Education and its partners GTVTC, co-organized an international training program on Automobile Training (Encyclopedia towards Hybrid Vehicle) to Southeast Asian teachers and students.

The training program was arranged in two phases: Phase 1: Training was formed as a Live Lecture on March 29, 2021. This phase outlined on three main topics: Training institution, Training resources, Training contents, Evaluation method, Ability improvement and Highlight. This phase 1 has the participants of 77 from countries including Cambodia (10 participants), Indonesia (25 participants), Malaysia (15 participants), Laos (5 participants), Philippines (15 participants), Singapore (2 participants) and Timor Leste (5 participants).

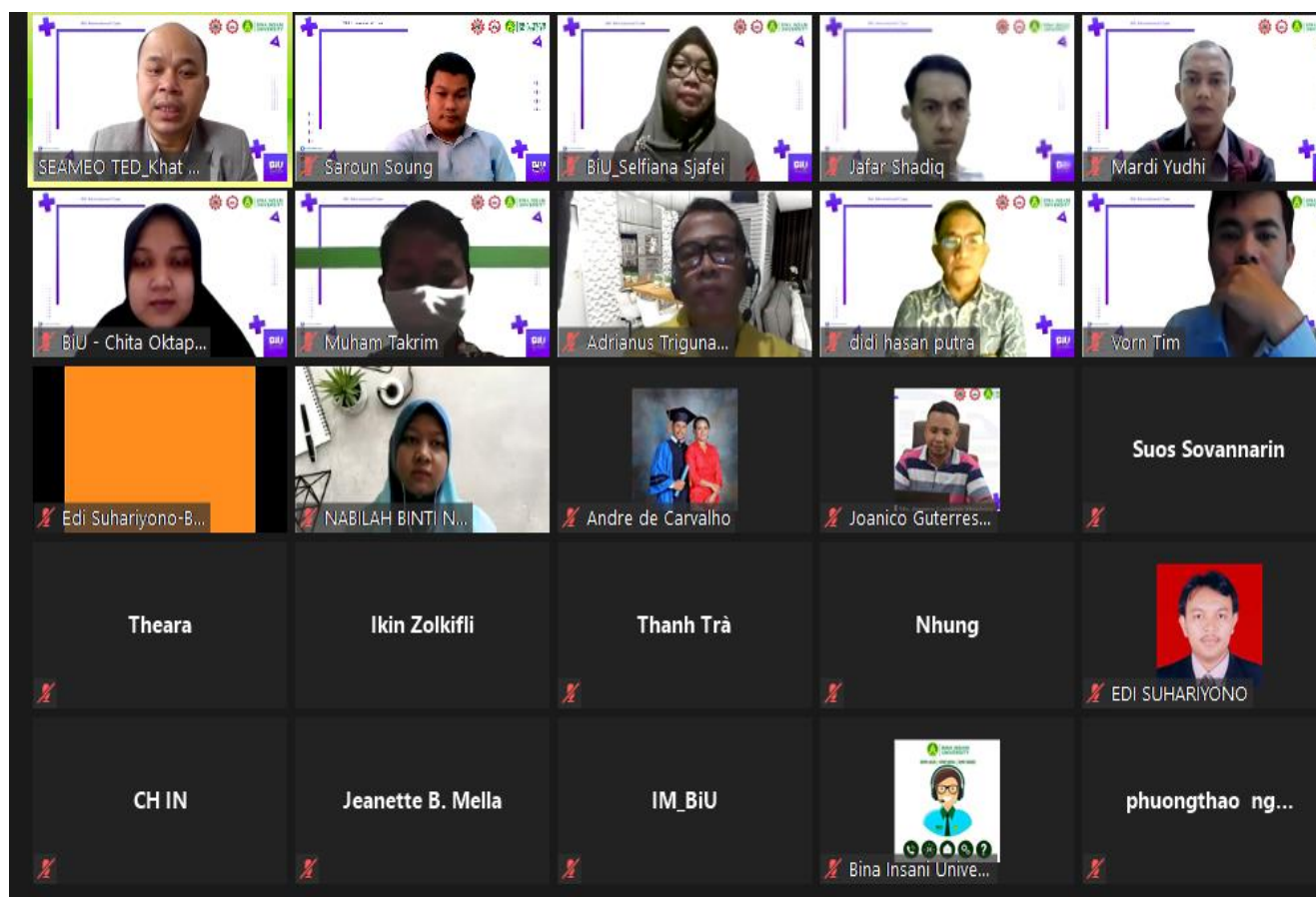
Prof. HUANG Zhijie from Guangxi Transport Vocational and Technology College (GTVTC), who has teaching and research experiences in hybrid automobile related fields for many years was invited as the trainer for this important training. The participants not only can learn about the core knowledge in this field, but also will receive an official vocational qualification certificate issued by GTVTC and SEAMEO TED.



Understanding the development of economics in ASEAN countries, the demand of infrastructure, especially bridge and road, witnessed a skyrocketed rise in these years. There is no doubt that a complicated transportation network is the most important cornerstone of economic development. In 2017, a joint China-ASEAN statement on Further on Deepening the Cooperation on Infrastructure Connectivity, indicating that China and ASEAN shall take necessary measures to encourage and promote connectivity cooperation in areas such as railways, highways, communication and etc, for building better business and investment environment. SEAMEO TED in collaboration with Go Study Global Education and Guangxi Transport Vocational and Technology College (GTVTC), International Training on Civil Engineering (Focus on Bridge & Road Construction), was co-organized on 12 April 2021 virtually.

The training program was arranged in two phases: Phase 1 was formed as a Live Lecture for 2 hours on 12 April 2021, which had totally 75 participants from five countries including Cambodia (9 Participants), Indonesia (25Participants), Malaysia (15 Participants), Philippines (25Participants), and Myanmar (1 Participant). This training phase 2 will be in Recorded Lessons & Live mode to be held from May to July.

Prof ZHOU XUEXIANG, WEN JINGQI from Guangxi Transport Vocational and Technology College (GTVTC), who have teaching and research experiences in Civil Engineering related fields for many years were invited to be the lecturer of this training. They shared their knowledge of their field with participants in civil engineering skills and competence. Overall the participants received basic knowledge of Road & Bridge Construction from professors in the training.



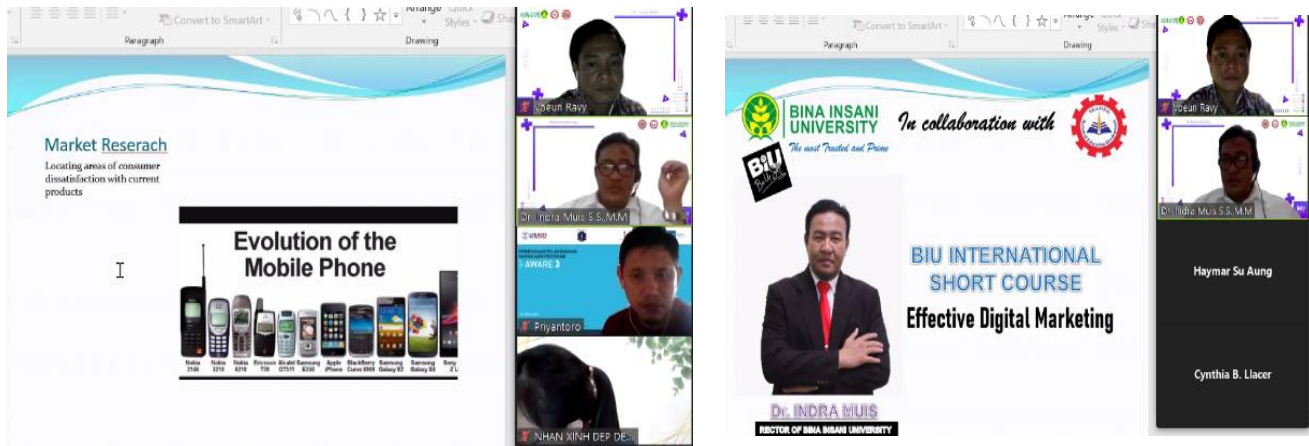
Amid the COVID 19 Pandemic, E-learning technology used to be a complementary learning tools but now it become compulsory to respond the educational demand.

SEAMEO TED in collaboration with Bina Insani University (Indonesia) co-organized international training on Introduction to ISO 9001: 2015 virtually to vocational-technical teachers and university students from some SEAMEO Member Countries.

This training was conducted on 03, 10 and 17 April, 2021 virtually. Ir. Didi Hasan Putra, M.M, senior expert in mechanical engineering was invited to give lecture of this program. 16 participants from Cambodia, Indonesia, Malaysia, Timor-Leste and Vietnam attended the training.

After the training, participants gain more and broad understanding about the ISO application and how an institution can practice and prepare to get the ISO certificate for their institution.

The training's main outlines are general introduction about ISO, System, Basic Knowledge about ISO, ISO and non-ISO organization/ company (discussion), PDCA concept, ISO document structure, and PDCA model, ISO Clauses, Clauses structure and ISO Audit (Application and Contract, . In addition, the lectured highlighted the concept of quality, the ISO seven quality Management Principles, EPC main business process and some important points.



A training course on **Creative Digital Marketing** was co-organized by SEAMEO TED in collaboration with Bina Insani University (Indonesia) on 03, 10 and 17 April, 2021 virtually. Professor, Dr. Indra Muis, S.S., M.M. was invited to lecture in this interesting course.

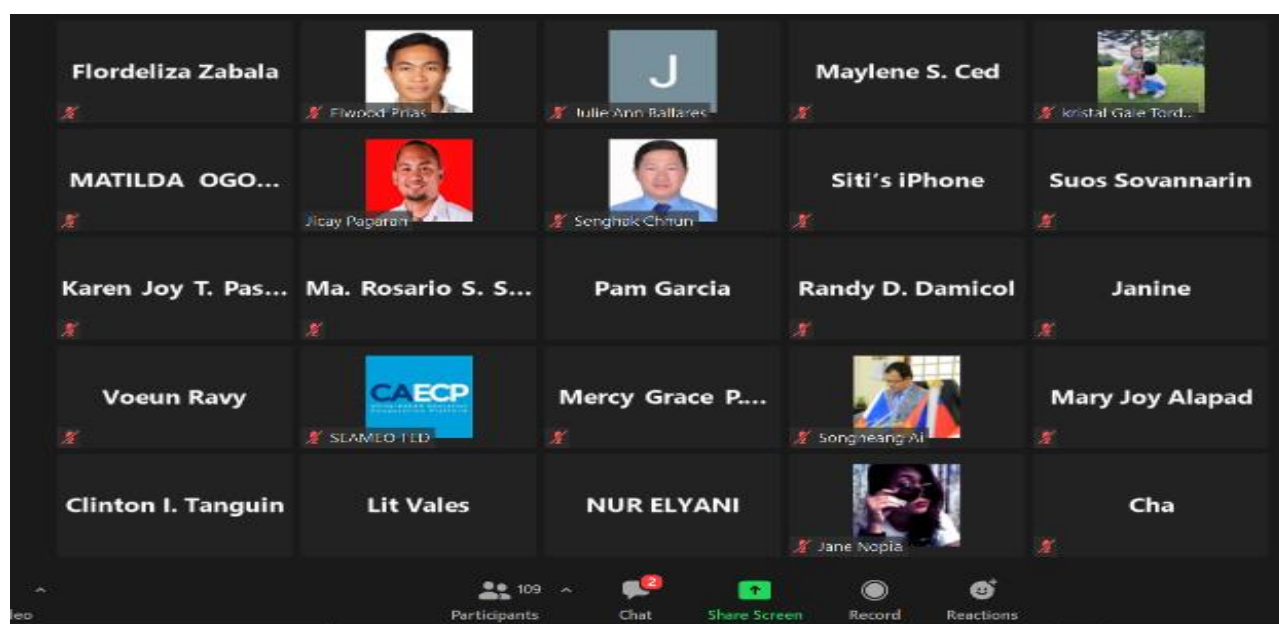
During the lecture, the lecture had presented the meaning and the significances of Effective Digital Marketing to the participants. The lecturer had also let the participants shared their ideas on Digital Marketing. Especially, the lecture allowed the participants to find the example of how to create a positive image to attract the customers. Then, he had explained how to sell new products more and more, and how to get more and more benefits. He also gave an example once a new product comes out and was known success, the competition gets fierce. Participants were involving actively by asking questions to the lecturer at the Q & A time. On another task, he explained Electronic word-of-mouth communication (eWOM) is any positive or negative announcement made by potential, actual or former customers about a product or company which is made available to multiples of people and/or institutions and is spread over the internet. Still the lecture wanted to hear from each participant to share and explain what they understand. The assignment was assigned to the participants and submit to the lecturer within one week.

The training course was attended by 43 participants registered from different countries in the region, including Cambodia, Indonesia, Laos PDR, Malaysia, Myanmar, the Philippines, Timor-Leste and Vietnam.

SEAMEO TED in collaboration with Bina Insani University (Indonesia) co-organized the training course on Basic Computer Development on 03, 10, and 17 April, 2021 virtually. This training was lectured by Mr. Jafar Shadiq, M.Kom, and 17 participants from 5 countries namely: Cambodia, Vietnam, Myanmar, Philippines, Timor-Leste, and Malaysia attended.

From this training, participants had learned from the live-lecture on the technical definition of mobile programming, and making basic projects starting from layout, intents, simple toasts and alert until the android is ready to be published.

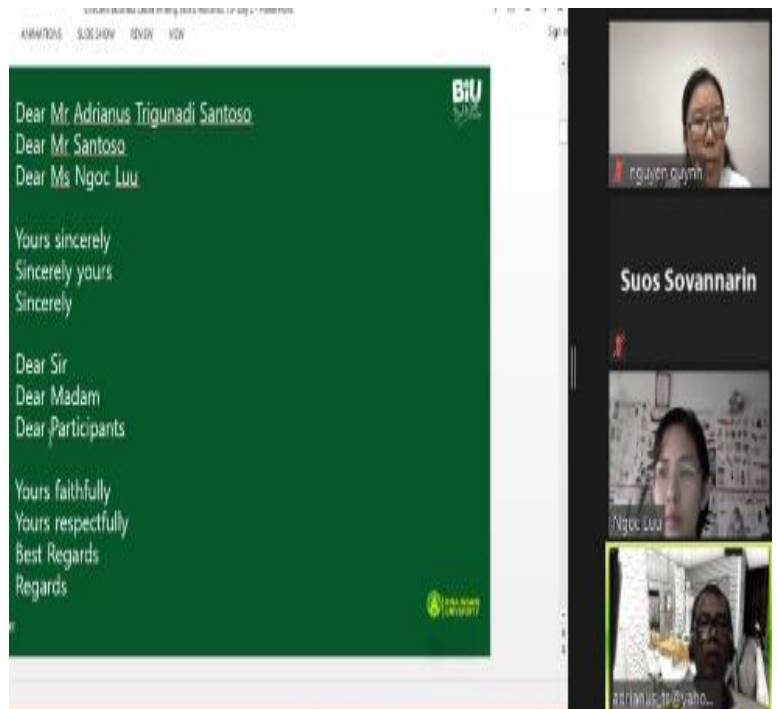
By the end of the course, the participants have learned and gained the knowledge of understanding mobile programming and they are able to build sample android-based mobile application for the creation of distribution files extension (Android Application Package) and distributes. Participants were actively involved and enjoyed the course very much by raising the questions, answering questions asked by the professor.

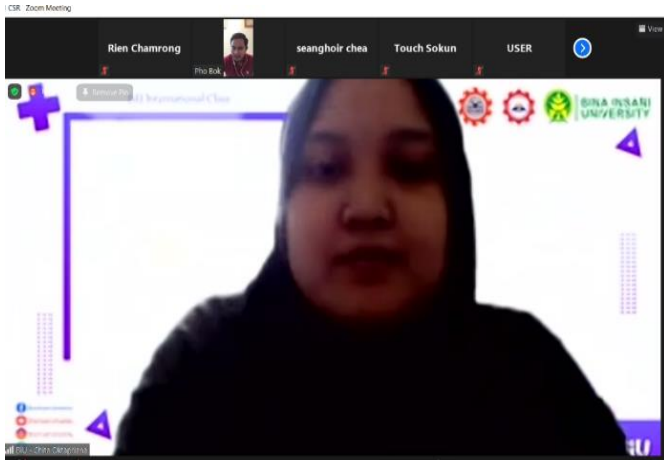


A training course on Effective Business Letter Writing Skills, SEAMEO TED in collaboration with Bina Insani University (Indonesia) was co-organized on 03, 10, and 17 April, 2021 virtually.

Professor, Adrianus Tri Gunadi, S.Pd., M.Si., CTEFLA, was invited as the lecture showed participants with clear guidelines which was important to those who want to communicate for business purposes. He taught how to write the starting statement, body statement, and conclusion statement. He also shared some main outlines in writing an official business letter.

Starting statement: At this point, a writer must clear with the receiver or who are receivers, and what is his/her position, company leader, company director or deputy director, and so on. In addition, the starting statement must tell the reader who the writer is and their purpose. Body statement: It must tell the reader with detailed information, simple words and all so flow logically to a natural conclusion. The phrases or sentences must write in active voice, avoiding passive voice sentences. If the letter is so long, the writer should write it in separate phrases or we can use bullets but make sure each point is written in parallel style. The writer should avoid using informal phrases or old paragraphs in the business letter. For example, avoid using the phrase “We cannot do anything about your problem” but we use this phrase instead “Unfortunately, we are unable to help you on this occasion”. Close statement: The writer must state the actions expected from the reader because it will take a result of the detailed provider. The text was written must relevant to the content of its purpose or message.

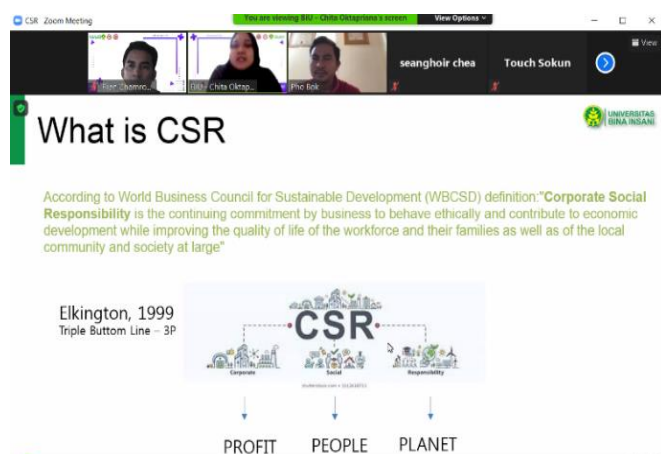




SEAMEO TED in collaboration with Bina Insani University (Indonesia) co-organized a training course on Comparison of CSR and Sustainability Reporting Implementation for the Continuity of SMEs in Various Countries, which was held on 03, 10, and 17 April, 2021 virtually.

Professor, Ms. Chita Oktapiana was the lecture of this important training. During the lecture, the definition and the significances of CSR were shared with the participants. Participants are allowed to have exchanges questions and answers in discussions related to CSR while lecturing and present their assignments. In addition, the lecture has highlighted the difference between CSR and Charity, CSR roles in developing countries, and CSR Funding.

Finally, the lecture shared the Five Targets of CSR: CSR Recognition in Business, Reporting of CSR, Sustainability Reporting, Elements of Sustainability Reporting, and Sustainability for Business. This training was attended by 12 participants from Cambodia, Indonesia, the Philippines, Timor-Leste, and Vietnam.



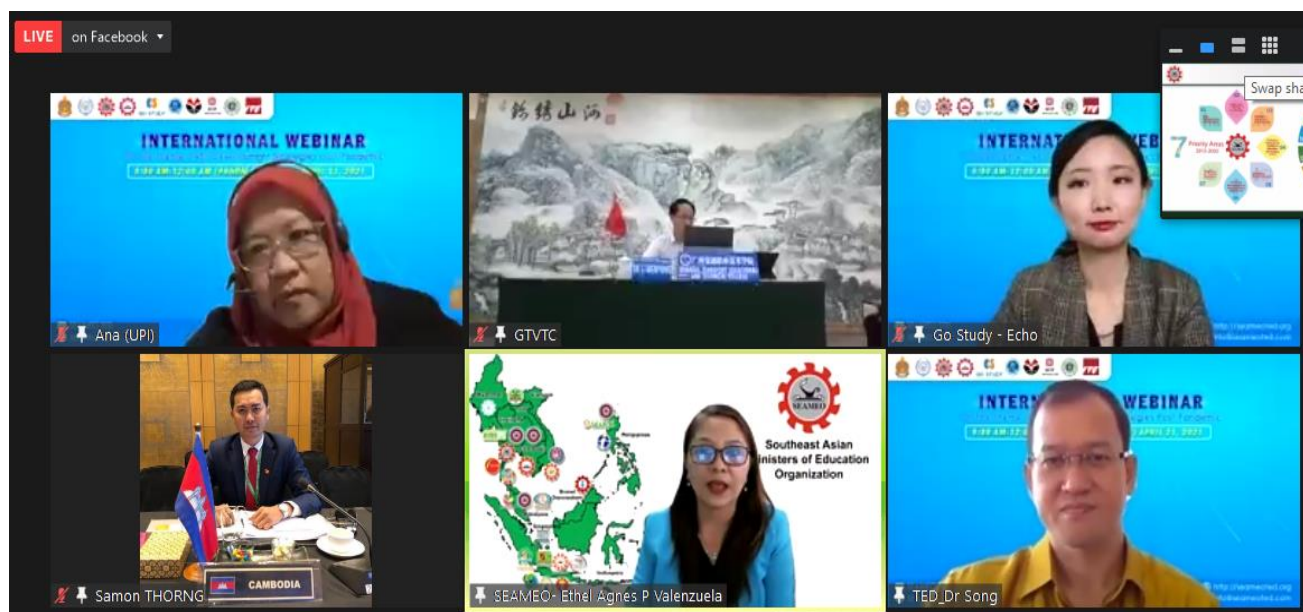


SEAMEO TED in collaboration with Bina Instansi University (Indonesia) co-organized a training course on Composition Bahasa Indonesian, which was held on 03, 10, and 17 April, 2021 virtually. This training was attended by 14 participants from Cambodia and the Philippines.

The course mainly focused on the Structure of Sentence, Affixation (Prefiks, Sufiks, Konfiks), and Practice. During the course, participants had an opportunity to learn some important structures of sentences, a series of words that create a sentence, and some basic affixation.

Participants were given the assignment to practice making some sentences using basic words for communication such as greeting and alphabet. Students were encouraged to write a few sentences given by the lecturer into Bahasa, change those sentences to be Negative and Interrogative form, then rewrite them into Bahasa, and rewrite some given material they have learned in this course in handwriting. From this course, all participants gained a lot of knowledge and experiences about “Composition Bahasa Indonesian” and they were committed to sharing them with their students and colleagues from three countries.

They were able to use Bahasa Indonesia at the end of the course.



Southeast Asian Ministers of Education Regional Center for Technical Education Development (SEAMEO TED) in collaboration with Go Study Global Education, China, an international Webinar on TVET Development Strategies Post Pandemic was organized on 21 April 2021 virtually. The Webinar aimed (1) to share TVET development strategies post pandemic from country to country as a benchmarking model for consideration; (2) to learn and benchmark the strategies from each other for TVET development regionally; and (3) to enhance regional cooperation in technical education among our stakeholders. Eight (8) guest speakers who are TVET experts and practitioners from Cambodia, Indonesia, the Philippines, Singapore and China were invited to share their knowledge, lessons learnt and practices and important policy implementation in their respective countries. Two sessions were separated with (1) TVET development strategies post pandemic and (2) best practice sharing among the SEA vocational-technical high school network members. 592 participants registered from 12 countries in the region including Indonesia (66 participants), Malaysia (8), the Philippines (440), Cambodia (60), Thailand (3), Vietnam (5), Laos (4), Singapore (3), Timor-Leste (1), India (1) and Uzbekistan (1).

The Webinar kicked off by updating the progress of SEA vocational-technical network by **Dr. Songheang Ai**, the SEAMEO TED Director and the moderator. Welcome remarks were given by **Ms. Qin Ziyan**, Director of International Relations, Go Study Global Education, and SEAMEO TED's strategic partner. She meaningfully welcomed all guest speakers and participants by highlighting the commitment of Go Study Global Education and future collaborative plans and supports given by China. Then, the opening remarks were given by **Dr Ethel Agnes Pascua-Valenzuela**, the director of the SEAMEO Secretariat, sharing 7 SEAMEO priority areas and SEAMEO 10-Year Strategic Plan supporting the Sustainable Development Goals (SDCs) and Covid-19 Impact to education and GDP growth in Southeast Asian region.

Session I: TVET Development Strategies Post Pandemic



In Session I, four important topics were shared by four speakers from Cambodia, Indonesia and China including Topic (1) the Road to Vocational Education Revitalization in Post- pandemic Era - Take Guangxi Transport Vocational and Technical College as an example by LI Wenyong; Topic (2) Re-Imagining Learning on TVET in the Higher Education Post Pandemic by Dr. Ana, M.Pd, Indonesia; Topic (3) TVET Development Strategies during Covid-19 Era in Cambodia by H.E Thorng Samon, Cambodia; and Topic (4) Case Sharing on International Cooperation in Post-pandemic Era by Mr. PAN Keren, China. After session I ended, video of Covid-19 responses were displayed to gain attention of participants by hearing from the concerns and hope of students and teachers from some ASEAN countries amidst the pandemic.

Session I: Best Practice Sharing

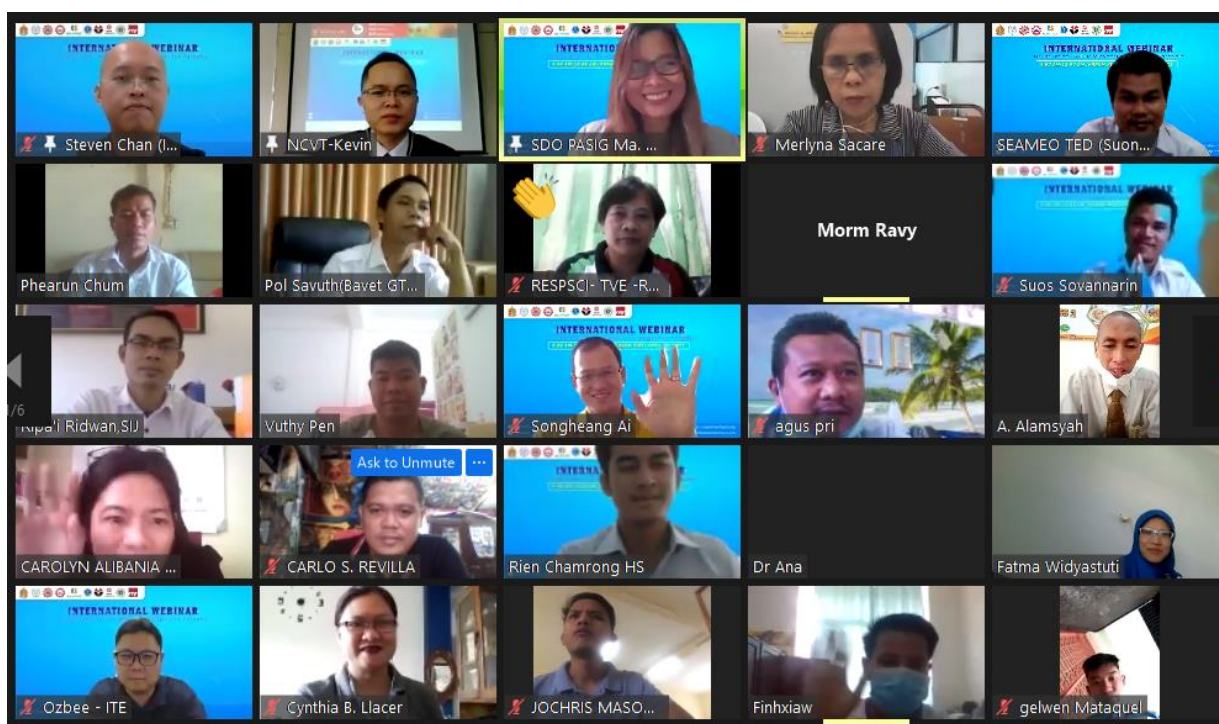
Topic 1 was integrative Assessment: Reframing of Assessment Practice in the New Normal was shared by (1) MA. VICTORIA MARDU-CUERVO: School Principal III and (2) LOUIE C. DUTERTE from Philippines. Topic 2 was Industry-Centric Skills Development Framework shared by (1) Ozbee Kee and (2) Steven Chan Peng Guan, experts and lecturers of Institute of Technical Education, Singapore.

The international Webinar was officially closed by the SEAMEO High Official for Cambodia, H.E. Dr. Dy Khamboly. He commented and highly acknowledged the importance of today's Webinar and all topics presented by guest speakers, which are the lessons learnt and knowledge sharing for this mean time. He briefly highlighted the global challenges facing in education, social and economic development by the pandemic. He addressed the important role of technological innovation and collaboration ensuring education equitability and quality amidst the pandemic. Finally, he appreciated the initiatives and commitment of SEAMEO TED and its partners for making this important event possible.

International Webinar on the Theme: TVET Development Strategies Post Pandemic

Progress Report 2019-2021
Two-Year Journey

The international webinar was official closed by the SEAMEO High Official for Cambodia, H.E. Dr. Dy Khamboly. He comment and highly acknowledge the importance of the webinar and all topics presented by guest speakers, which are the lesson learn sharing and knowledge sharing for this mean time. He briefly highlighted the global challenges facing in education, social and economic development by the pandemic. He addressed the role and important role of technology innovation and collaboration in ensuring education equitability and quality amid the pandemic. It is very important to strengthen more inclusive role of collaboration and take more advantage of technology innovation for the education development in the region and beyond. Finally he, appreciated the initiatives and commitment of SEAMEO TED and its partners for making this important event possible.





The SEAMEO Congress 2021 was co-organized by the Ministry of Education, Thailand, the Ministry of Education, Malaysia and SEAMEO Secretariat on **April 28-29, 2021** under the theme of “**Transforming Southeast Asian Education, Science and Culture in the Digital Age**”. This congress was the platform to gather regional and global leaders and experts virtually to present, and discuss innovations, breakthroughs and best practices in Education, Science and Culture to achieve SDG4 2030 amidst and after the COVID-19 pandemic.

The Congress was the platform for networking and strategic partnership among education actors and stakeholders in Southeast Asia and beyond for enhancing the quality of learning and ensuring wider access and relevance of education in the region. 6 plenary sessions and 13 parallel sub-sessions, each with paper presentations and discussions were shared in the congress.

SEAMEO TED has been given a great opportunity to be a guest speaker in the session of SEAMEO Centre Presentation on April 28, 2021 (15:00-16:00). **Dr. Sonheang Ai**, centre director of SEAMEO TED presented research findings of the centre on the topic: *Assessing the Distance Learning Delivery Quality for Technical Education Students during the Covid-19 Pandemic Outbreak* at General and Technical High Schools in Cambodia.

In his presentation, he covered on three key points: (1) introduction; (2) research methodology; and (3) discussion and conclusion. He highlighted some key strategies on the human resource development, vocational and technical education and training at upper secondary level, curriculum effectiveness, accessibility to the program, the role of teachers, and technological innovation during the pandemic.

Research employed paper-based questionnaires with three sections namely (1) demographic information; (2) satisfaction with 20 items; and (3) performance with the same 20 items, using a cross-sectional survey design. Likert type five-point scale was used. 13 general and technical high schools (GTHSS) with 796 participants covering eight trades in which 389 were female.

The importance-performance analysis (IPA) was used to analyze data. The findings highlighted the limited quality of distance learning programs. The disparity between service receivers with different social-economic backgrounds such as teachers' expertise, students' affordability to access online programs, and school infrastructure.

Southeast Asian Ministers of Education Organization Regional Centre for Technical Education Development (SEAMEO TED), Cambodia and Go Study, Global Education, China co-organized a virtual training course on “Logistics Knowledge Phase II”. The training was conducted at 09:00-11:00 am (Cambodian Local Time) on April 30, 2021 in the purpose of sharing knowledge and expertise of logistics by a Chinese expert to 118 participants, who are from seven different countries in the ASEAN region consisting of Cambodia, Indonesia, Philippines, Lao PDR, Singapore and Timor-Leste.

In this second phase, the lecturer explained four ultimate contents comprising Express Delivery, Road Transport Safety Management, International Freight Forwarder, and Knowledge of Forklift. At the end, a lecturer assigned quizzes with multiple choice options for rating to evaluate the participants’ learning levels in order to certify their qualifications. Finally, the interaction and communication, as part of Q & A session, were encouraged in terms of answering participants’ questions, concerns or comments.

This training is organized in three phases. The phase I of this training was conducted on 26 January 2021, which Lecturer Liang Yueyue & Zhuang Huizi from Guangxi Transport Vocational and Technical College provide participants with logistic skills and competence through a live lecture. The Phase III will be Live Test Coach & Assessment.





SEAMEO TED, in collaboration with Vocational Orientation Department, Ministry of Education, Youth, and Sport (MoEYS), Cambodia co-organized a national Webinar on Transforming Innovative Initiatives into Practices on 18 May 2021 virtually. The Webinar aimed to share lessons-learned, best practices and initiatives of three target general and technical high schools in Cambodia. Six presenters who are instructors and students in the areas of technical trades were invited to share the capstone projects for year 3 students. 180 participants who are administrators, instructors, students, and school management registered for this Webinar. The opening remarks were given by Mr. Rath Sara, Director of Vocational Orientation Department, MoEYS. He expressed his deep interest and encouragement to speakers, participants, and SEAMEO TED for making this Webinar possible. He emphasized the technical education as priority areas of the Royal Cambodian Government, especially for youth skills development.

Speakers from Bavet General and Technical High School, Mr. Prum Theara, instructor and Miss Soun Sreynich, year-3 student, presented topic 1: Automatic Irrigation System. They highlighted the objectives of the project which is to raise awareness of using automatic irrigation system amongst Cambodian farmers helping them grow better crops with greater outcomes. They mainly emphasized how an innovative and automatic irrigation system is to all participants step by step.

Speakers from Kampong Chheuteal Demonstration High School, Mr. Sam Theara, vice principal and Miss Chheav Chhyneang, student, presented topic 2: Comparison of Fish Growth Rate between Finished Food Feeding and Mixed Food Feeding. They highlighted relevant theories, project implementation, discussion of results, and conclusion and recommendations.

Letter Control on LED Panel is the last topic presented by Mr. Thoeun Punlork, instructor and Mr. Sroeuy Sarat, student from Pouk General and Technical High School. They mainly explained how to use HD2018 (Software) to build the system. Finally, presenters discussed important steps in building the overall system for letter control on LED panel.

A Q & A session was facilitated by a moderator Mrs Chea Seanghoir. Remarkably eight questions were raised by the participants to all speakers. Speakers shared their responses and discussion to all of the stated questions. The closing remarks were given by Dr. Songheang Ai, director of SEAMEO TED. He expressed his deep thanks to all presenters and participants for their time and efforts in making the Webinar successfully ended with fruitful results.



SEAMEO TED, collaboration with **SEAMEO CECCEP** and its partners and network, a Short Course on E-Certificate Management System: Knowledge Sharing and Practice was co-organized on 19 May 2021 virtually. The short course was aimed to share knowledge of E-Certificate Management System to all participants to put into practice at their own institutes. Mr. Iwan Aries Setyawan, Head of Knowledge Management System SEAMEO CECCEP was the trainer in this short course. There were 34 participants from various institutes in Cambodia such as National Institute of Education (NIE), Dept. of Non-Formal Education, Dept. of Examination Affairs, Vocational Orientation Dept., Dept. of Youth, Teacher Training Dept., Phnom Penh Teacher Education College, Kampong Speu Institute of Technology, Kampong Chheurteal Demonstration Technical High School, Cambodian ASCC, and SEAMEO TED. There was also a participant from Go Study China.

The training was started after Opening Remarks from SEAMEO CECCEP Director, **Dr. Dwi Priyono, M. Ed.** He welcomed all participants from Cambodia and gave a brief of the significances of E-Certificate Management System in any institution, especially in the pandemic time that online courses, trainings or webinars conducted virtually.

Mr. Iwan Aries Setyawan, Head of Knowledge Management System SEAMEO CECCEP, started his training with one of his assistance. They showed the E-Certificate Management System connected with Event Registration, Online Training, and Webinar. Then Webinar Process should be conducted with four steps orderly- registration, live streaming, evaluation, and e-Certificate. It can be called Webinar system. The trainer explained each step with details on how to do and what tools need to be used. On E-certificate, the participants were trained to use QR Code which can be made by generating from certain websites such as qrcodegenerator.com or qcodemonkey.com. Q & A section was conducted by moderator with a few questions from participants to our trainer.

Dr. Ai Soungheang, Director of SEAMEO TED gave Closing Remarks to the training. He expressed his deep appreciation to all parties that had made this training happened and ended successfully with fruitful results. His special thanks went to the trainer and especially SEAMEO CECCEP for their effort of knowledge sharing which is useful for making E-certificate for next coming virtual trainings and webinars of all participant's institutes.



SEAMEO TED, collaboration with SEA VoT Network members, co-organized 4th SEA Vocational-Technical Webinar on “**School-Based Management Practices Supporting Vocational Instruction**” on 25 May 2021 virtually (Local Time: 09:00-12:00). The webinar was aimed to share and learn from each other the school Based Management Good Practices among the SEA VoT Network members. Four different topics of lesson-learned and good practices were shared by four SEA VoT Network members from Malaysia, Indonesia, Cambodia and the Philippines. 144 participants registered from different countries in the region- Malaysia (74), Philippines (34), Cambodia (14), Myanmar (10), Singapore (6), and Indonesia (6).

MR. AW YORK BIN, Chief Officer/Industry-Based Training, Industry Projects & Endowment Fund, Institute of Technical Education, Singapore, was invited to give the Opening Remarks. He stated the important roles of vocational and technical education in the era of Industry 4.0. He noted the fast movement of digitalization in every field of life in the pandemic time, especially in education. He encouraged all SEA VoT Network members to strengthen and move forward even faster to keep the right track with current trend.

Using Git Hub as a Teaching Tool for Programming Courses was the first topic presented by **Mdm SYARIFAHNOR AMINAH BT ALWI**, Lecturer and **FARAH ERINA BT RAZALI**, Student from Sepang Vocational College, Malaysia. Their aim was to promote using GitHub which is a provider of Internet hosting for software development and version control using Git. They both had demonstrated very well on how to register with GitHub and how to process code in the software.

Vocational Skill Enhancement (Formal, Non-formal, and Informal) was the second topic of the webinar presented by MR. USMAN, M.Pd, Teacher of Vocational High School 2 LPPM RI Majalaya, Indonesia. The objective of his topic is to develop student potential and competence in productivity in the formal, non-formal and informal spheres in in The Vocational School unit.

Community Resource Mobilization for School Sustainability was presented by Mr. PRAK YORN, Teacher of Bavet General and Technical High School, Cambodia as the third topic of the day. Mr. Yorn shared internal and external strategies used in developing his school to participants. He also raised the challenges of his school management that have to be deal with. Several key points have been included in future plan in developing his school or school vision.

Mdm. SHIRLEY CANIETE-SIMAN, Ph.D, Vocational School Administrator II of Tanauan School of Fisheries, the Philippines, presented the last topic of the webinar “**Implementation of Aquaculture Curriculum**”. She pointed out orderly steps in making aquaculture as following- Pond Preparation, Fish Stocking, Feed Formulation, Stock Sampling, and Water Quality Monitoring. More importantly, she demonstrated the process of student’s achieving qualification from her school.

Dr. Ai Soungheang, Director of SEAMEO TED was invited to give the Closing Remarks of the webinar. He expressed his deep thanks to all presenters and participants for their time and effort in making the webinar successfully ended with fruitful result. His special thanks went to **MR. AW YORK BIN**, Chief Officer/Industry-Based Training, Industry Projects & Endowment Fund, Institute of Technical Education, Singapore, for his remarkably meaningful speech in the Opening Remarks to the webinar. He strongly hoped that the Webinar topics are applicable for all participants’ instructional work setting context adapting to individual needs of schools. Finally, he asked for their action plans for applying what they have learned today to transform the lessons learned into reality.



SEAMEO TED, in collaboration with its partners, co-organized an international Webinar on “Transformative Learning in the Digital World” on 09 June 2021 virtually (09:00-12:00, Bangkok Time). The webinar aimed to share the good practices and theories, and insights on the roles and strategies of digitization in transforming learning and teaching in different countries. Four different topics were shared by four speakers from Cambodia, Indonesia, the Philippines, and the United States of America. 779 participants registered from different countries including Philippines (630), Malaysia (46), Cambodia (42), Indonesia (20), Singapore (8), Myanmar (3), and Vietnam (1) and Other countries (12 participants).

Dr. Kritsachai Somsaman, Deputy Director of SEAMEO Secretariat, offered his opening remarks emphasizing the increasing roles and importance of digital technology on education during the pandemic. People need to be smart to survive in this new era of digital world. Therefore, education is the only key to generate smart people, especially through technical and vocational educational training (TVET). Finally, Dr. Kritsachai appreciated SEAMEO TED for organizing various trainings programs online and particularly the webinar today which is very crucial and increasing demand of digital age which can surely fulfil the needs of learners, teachers, and practitioners.

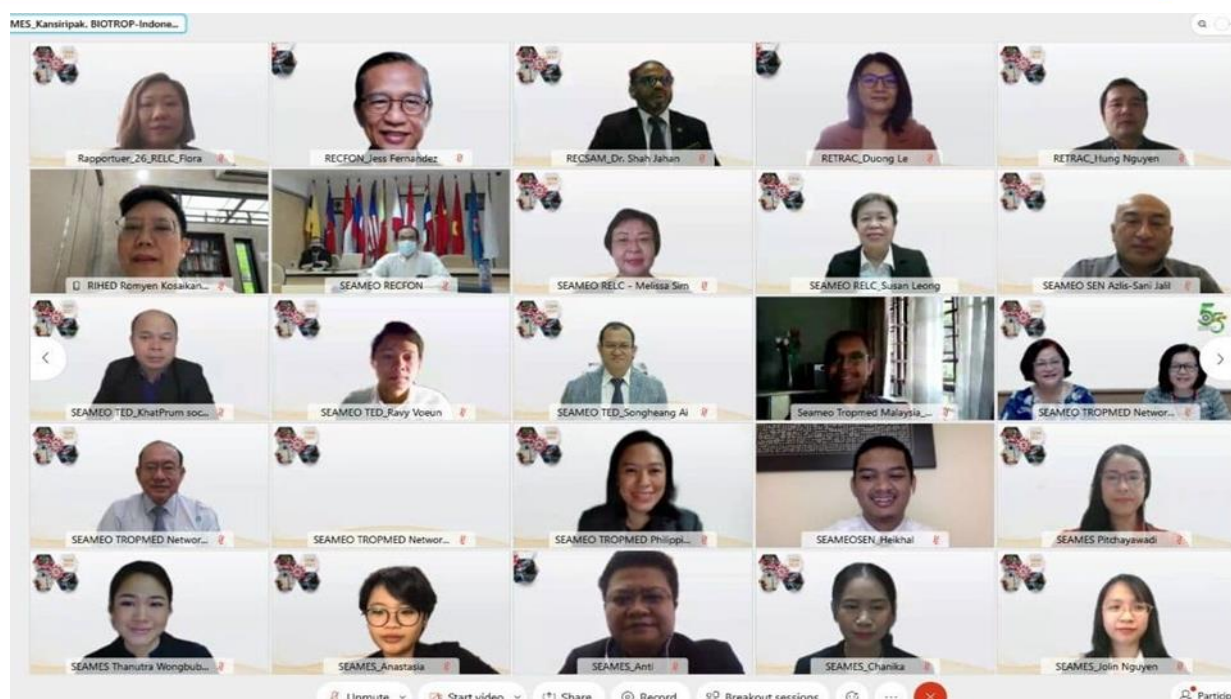
Dr. Chheang Sangvath, a teacher trainer of national institute of education (NIE), Cambodia presented “**Role of Principals for Transformative Learning in the Digital World**” by highlighting key points related to digitalization and technological development and transformation of education in the era of openness and flexibility, transform education for all 17 SDGs particularly and the role of principals as a transformational leader for transformative learning in a digital era in the 21st century. Finally, he addressed the important tasks of principals in transformative learning and school effectiveness which are the curriculum design, instructional strategies, and learning environments integrating appropriate technologies for the best learning and teaching environment.

Assoc. Prof. Dr.-Ing. Ir. Agus Maryono, dean of vocational college of University of Gadjah Mada, Indonesia presented **“Development Strategy of Education Institution in the Digital World”**. He addressed challenges which need a big changing in education during the pandemic and the strategies to adapt and take advantage and succeed in coping with these changes by digital supports in education, particularly systemic thinking (Education for Sustainable Development, Linkage of Thinking World and Living World, Comprehensive, Organismic, and Synthesis), Dynamic Networking (Personal Networking, Institutional Networking, and Personal and Institutional Networking), and Knowledge Management (Creating Knowledge, Explicit Knowledge, Contents, Funding for Creating Research).

Prof. Dr. Theresita V. Atienza, president of Quezon City University, presented **“Transformative Learning in a Digital Environment: From Theory to Practice”**. Dr. Atienza stressed the pedagogical framework of transformative learning, its challenges for technical and vocational courses and the need to adapt for the digital environment. She mainly shared the opportunity of taking advantage of digitalization from the traditional face-to-face class to synchronous and asynchronous online classes and the need for a shift from instructor-led to a learner centered approach during the pandemic.

Dr. Ronald L. Jacobs, professor of Human Resource Development, University of Illinois at Urbana-Champaign, and president of SiTUATE, LLC, presented **“Work-Based Learning and Technology: Introducing SiTUATE – the Digital Version of S-OJT”**. The digital version of S-OJT which allow employers, and employees to conduct work analysis, manage trainings, auditing information by using tool kits in doing job analysis, task analysis, occupational analysis, skills gap analysis, training guides, and onboarding guides. He also introduced some important materials for work and training management such as templates for work analysis techniques, flexibility in conducting performance checks, integrate performance check, and training plan. Finally, Dr. Jacobs also discussed work-based learning by highlighting an instructional strategy that provides students with authentic work experiences where they can apply academic and technical skills, and develop their employability, and shared the detailed process, steps and key elements of SiTUATE pilot projects

The closing remarks were given by **Dr. Songheang Ai**, director of SEAMEO TED. He expressed his sincere appreciation and thanks to Dr. Kritsachai Somsaman, all keynote speakers and participants for their time and efforts in making the Webinar successful with fruitful results. He highlighted that the webinar is an alternative solution for learners and practitioners for their continuous professional development. He hoped that today’s important topics shared by the resourceful and experienced speakers were beneficial for work settings adapting to participants needs and contexts.



SEAMEO TED Director and colleagues attended SEAMEO Centre Directors Meeting (CDM) 2021 which was virtually conducted on 21 July 2021. The CDM 2021 serves as a platform for the Centre Directors and Senior Officers of 26 SEAMEO Regional Centres/Network to share and discuss regional development programmes and work plans for improving education, science, and culture for the Southeast Asian region. The meeting is also a venue for expanding the developmental programmes with new partners and strengthening the existing partnerships. It was participated by approximately 220 participants, consisting of Centre Directors and Senior Officers from 26 SEAMEO Regional Centres/Network, one Associate Member Country, one Affiliate Member, and 21 partner organizations who are UN agencies, non-governmental organizations, development agencies, universities, and enterprises.

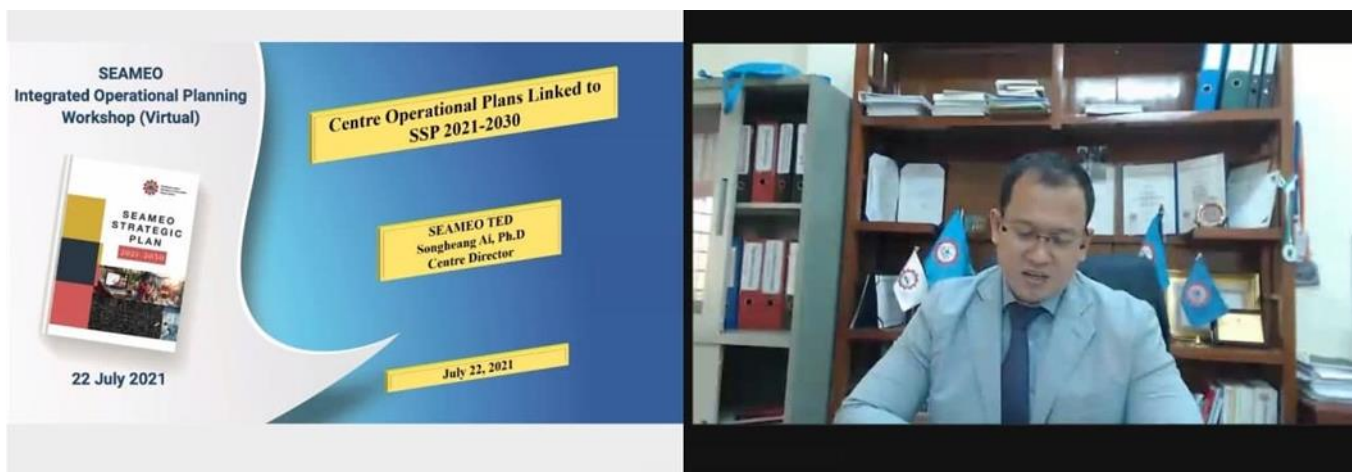
SEAMEO TED was given an opportunity to present its working paper on “*Progress Report of SEA-Vocational-Technical High School Network*” to notify and request for supports from SEAMEO Centre Directors Meeting 2021.

In the working paper, SEAMEO TED highlighted the the network members which are 72 participating vocational-technical high schools/colleges covering on 6114 teachers and 102281 students from 10 SEAMEO Member countries including Brunei Darussalam (2), Cambodia (12), Indonesia (19), Laos (2), Malaysia (8), Myanmar (5), the Philippines(17), Singapore (1), Thailand (5), and Timor Lest (1). SEAMEO TED also highlighted achievements made for the network through regional meetings, regional training, SEA vocational-technical webinars and international webinars accommodating over 3,169 participants nationally, regionally and internationally.



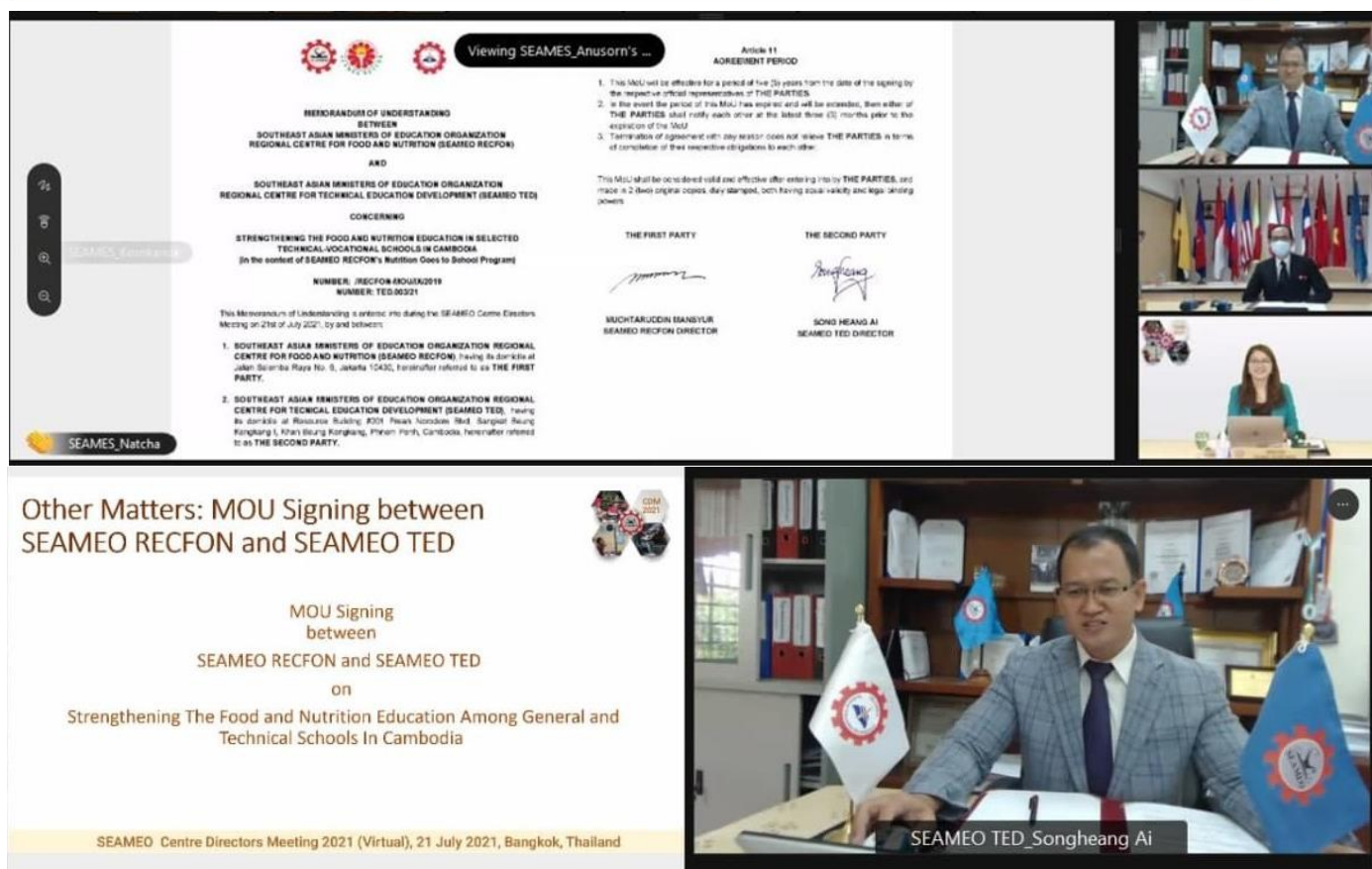
SEAMEO TED Director attended **SEAMEO Integrated Operational Plan and Key Result Area Workshop (SIOP)** virtually on 22 July 2021. The SIOP aimed (1) to renew and strengthen the commitment of SEAMEO units in achieving the aspiration of SEAMEO strategic plan, vision, mission through the implementation of its fiscal year development plan (FYDP); and (2) to gather inputs from SEAMEO units in line with the proposed KRAs under the SEAMEO Strategic Plan 2021-2030. In the workshop, SEAMEO TED Director presented the SEAMEO TED's Operational Plan 2021-2025, highlighting proposed programmes, projects and activities which are developed to support each key result area (KRA) of four strategic themes of the SIOP.

Under the Strategic Theme 4 (**Regional leadership and International and global visibility**), SEAMEO TED proposed 3 activities to support on KRA 1: Strengthening linkages and creating/initiating National, Regional, and International Institutions, and Inter-Centre Collaboration, which are: (1) Formulating SEA Public-Private Partnership Network, (2) Formulating SEA technical-vocational scholar's community, (3) Formulating an online research journal called "SEA Online Technical Education Journal"; and 10 proposed activates/project that will support KRA 3: Building SEAMEO image as a regional organization of choice for implementing SDG-relevant work and other relevant programmes, which are: (1) Online training course on agricultural modernization for SEA technical teachers, (2) Training course on technological skills for SEA technical education teachers, (3) Training course on school management and leadership for SEA school management, (4) Study visit for SEA vocational-technical high school principals to Guangxi, China, (5) Scholarship provision for SEA technical education students on vocational and technical training courses to China, (6) Masters' degree scholarship programs to China for SEA technical education teachers, (7) China-ASEAN vocational education forum (Blended), (8) Online training course on Mechanical Engineering for SEA technical teachers, (9) SEA teacher exchange programs to Guangxi, China, (10) Online electrical skills contest.



Under Strategic Theme 2 (**Programme excellence and SDG relevance**), SEAMEO TED proposed **12 activities projects/ activities that will support the KRA 1** (Strengthening Research and Development (R&D) Programmes and initiatives towards achieving accessible and quality education and lifelong learning opportunities for all), which consist of: (1) ICT needs assessment for TVET teachers in the SEAMEO country members, (2) Investigating the competencies of technical education teachers for their industrial skills in the SEAMEO country members, (3) Exploring effective classroom climate for technical education in the SEAMEO country members, (4) Training needs assessment for technical-vocational high school management in the SEAMEO country members, (5) The effect of vocational and academic abilities on pedagogical abilities of technical education teachers in the SEAMEO country members, (6) The influence of knowledge sharing and dissemination on knowledge application and use at technical and vocational high schools in the SEAMEO country members, (7) The effects of teacher turnover on students' academic achievements in technical and vocational education, (8) Investigating the relationship between policy guideline implementation and instructional effectiveness in technical education, (9) Investigating technology application effectiveness for TVET students learning, (10) Assessing the performance effectiveness for technical education teachers as a member of the professional learning communities in the SEAMEO member countries, (12) School health influences technical education students' learning outcomes in Cambodia.

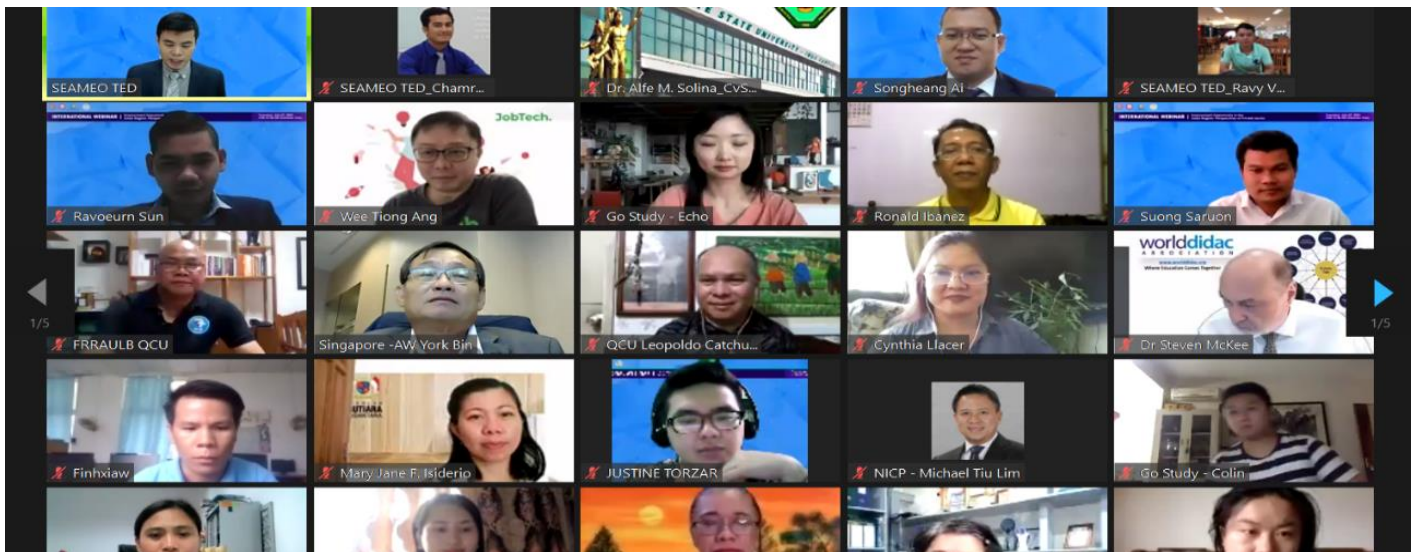
Under the Strategic Theme's KRA2: Improving stakeholders' engagement to ensure that each individual is equipped with relevant skills to deal with rapidly changing world of work, SEAMEO TED has proposed 5 activities comprising (1) SEA vocational-technical webinar on "Labor Demands in IR 4.0 Era", (2) International webinar on "Employment Opportunity in the Asian Region: Perspectives of Private Sector", (3) SEA vocational-technical webinar on "Labour Demand and Supply in the ASEAN Region: Public Private Partnership", (4) International webinar on "Transforming Innovative Practice into Reality: Perspectives of Young Scientists", and (5) SEA vocational-technical webinar on "Technical Education Policy Dialogue: Perspectives of Supervising Ministries"



SEAMEO Regional Centre for Technical Education Development (SEAMEO TED) signed Memorandum of Understanding (MoU) with SEAMEO Regional Centre for Food and Nutrition (SEAMEO RECFON) to implement a joint program on **STRENGTHENING THE FOOD AND NUTRITION EDUCATION IN SELECTED TECHNICAL-VOCATIONAL SCHOOLS IN CAMBODIA**.

The official signing ceremony was made virtually in the **Other Matter SESSION** of the annual SEAMEO Centre Directors Meeting (CDM) 2021 on 21 July 2022 with the witness of Directors, Management Team and Experts of SEAMEO Secretariat, 25 SEAMEO Centres and other SEAMEO Partners. The MoU was made to serve three important objectives: (1) To improve the capacities of teachers in the target technical-vocational high schools to teach food and nutrition education to their students; (2) To integrate food and nutrition education in the intra- and extra-curricular activities of the target technical-vocational high schools in line with their respective fields of interest/streams; and To enhance the capacities of the target schools to implement school-based nutrition promotion activities. The scoped areas of collaboration of this MoU includes 1) Institutional and individual capacity building, (2) Research and knowledge generation, (3) Information materials development and exchange, (4) Expertise exchange and (5) Monitoring and Evaluation. The MoU was made effective for a period of five (5) years from the date of the signing by the two parties. Dr. Songheang Ai (SEAMEO TED Director) and Muchtaruddin Mansyur, SEAMEO RECFON's Director were the signers of this important document.

SEAMEO RECFON was established in 1967 as SEAMEO TROPMED RCCN (Regional Centre for Community Nutrition), and transformed into RECFON (Regional Centre for Food and Nutrition) in 2011. The Centre promotes education, capacity building, research and information dissemination on food and nutrition across Southeast Asia. As a step towards sustainable human resource development, the Centre trains nutritionists, health professionals and personnel from other nutrition related disciplines in planning, executing and evaluating nutrition programmes and policies.



SEAMEO TED, in collaboration with its partners, co-organized an International Webinar on the Theme: **Employment Opportunity in the Asian Region: Perspectives of Private Sector** on 27 July 2021 virtually (09:00-12:00, Bangkok Time). The webinar was aimed to share perspectives, expertise, knowledge and best practices relevant to employment opportunities in the Asian region. Five different topics relevant to employment opportunities were shared by five speakers from Cambodia, China, Indonesia, Singapore, and the Philippines. 283 participants registered from different countries- Philippines (229), Cambodia (14), Others (14), Singapore (12), Indonesia (9), Lao PDR (1), Malaysia (1), Myanmar (1), Thailand (1), and Vietnam (1).

Dr. Songheang Ai, Director of SEAMEO TED, was invited to contribute the Opening Remarks. He pointed out that industries' voices are crucial for consideration and policy actions of technical education stakeholders. He also assured that SEAMEO TED will formulate SEA public-private partnership network to match demand and supply side to ensure the right skills, right training course, right employees, right job, and right position for our region.

The first speaker from Singapore, **Mr. Wee-Tiong**, the Founder and CEO of JOBTECH, presented **"Safeguarding Livelihood by Understanding Labour Economy and Skills"**. He discovered that skill proficiency and adjacency are significant to meet business needs in this digital era. He also raised some challenges in investing in talents to meet demand of job employment. Most importantly, he shown Maritime jobs which are most in demand by percentages.

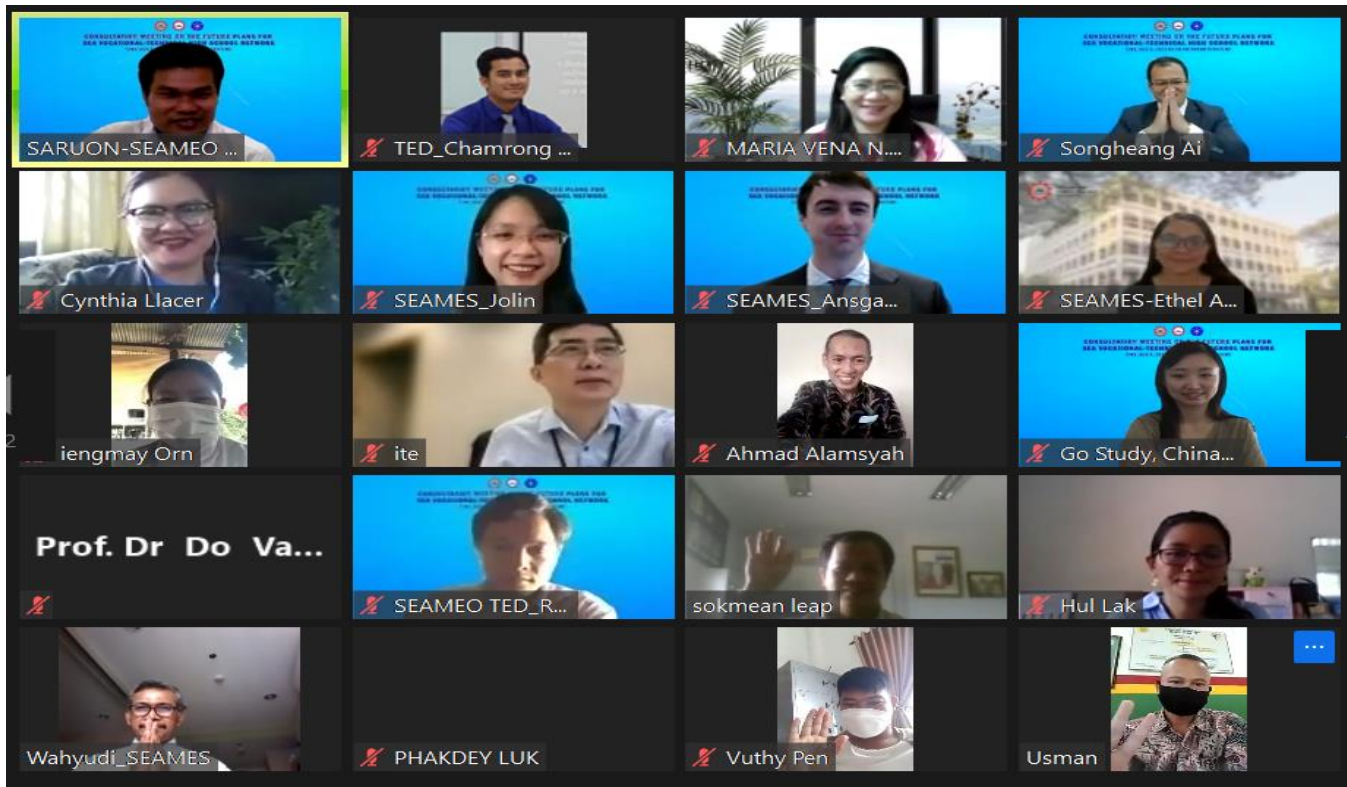
The second speaker from Indonesia, **Mr. Steven McKee**, the President and founder of Lab Tech, presented **"Observation on Current Trends, Issues, Challenges and Opportunities in Education"**. He stressed on the educational aims of virtual TVET and virtual learning for Technical Subjects- improving comprehension and retention, free up teacher time, reduce learning time and lower cost, and flexible leaning and deployment. He also demonstrated compounding accelerating change caused by covid impacts, IR 4.0 impacts, and societal and work change.

The third speaker from China, **Ms. Wang Lin**, Deputy General Manager of Shandong Dolang Technology Equipment Co., presented “**Analysis of China’s Employment Market in 2020**”. She showed the analysis on the overall employment situation of fresh graduates. She also addressed Belt & Road International skills competition which consists of 18 events and exchange activities of unique skills and skills of Bayu craftsmen and the skills display and exchange experience projects with local characteristics.

The fourth speaker from Cambodia, **Mr. Ravoeun Sun**, Deputy Group Manager of Hyundai, Cambodia Branch, presented “**Job Opportunity and Readiness for Fresh Graduates Post Pandemic**”. He addressed the skills for employability which has two groups- hard skills and soft skills. He also pointed out Post Pandemic Job Opportunity by two categories- Growing Job Demand and Decreasing Job Demand. In addition, he stressed on Career Aspiration which has Defining Goals, Checklist, Career Ladder, Education Qualification, Strengths and Weaknesses, Success, and Motivation.

Our last speaker from the Philippines, **Mr. MICHAEL TIU LIM**, President at National ICT Confederation, presented “**Online Job Opportunity in the ICT and Business Process Management**”. He discussed the increasing ICT industry engagement such as ICT Roadshows, RIS Trainings, Cluster Conferences, NICP Summit, Digital Governance Awards, and Digital Pilipinas Portal. He stated that NICP has been instrumental in bringing more than 300k direct employment and several digital opportunities to the Philippines countryside.

A Q & A session was facilitated by the moderator, **Mr. Tim Vorn**. Remarkably five questions were raised by the participants to all speakers. Speakers shared their responses and discussion to all of the stated questions. The closing remarks were given by **Mr. AW YORK BIN**, CEO of Institute of Technical Education. He expressed his deep thanks to all speakers and participants for their time and efforts in making the Webinar successfully ended with fruitful results.



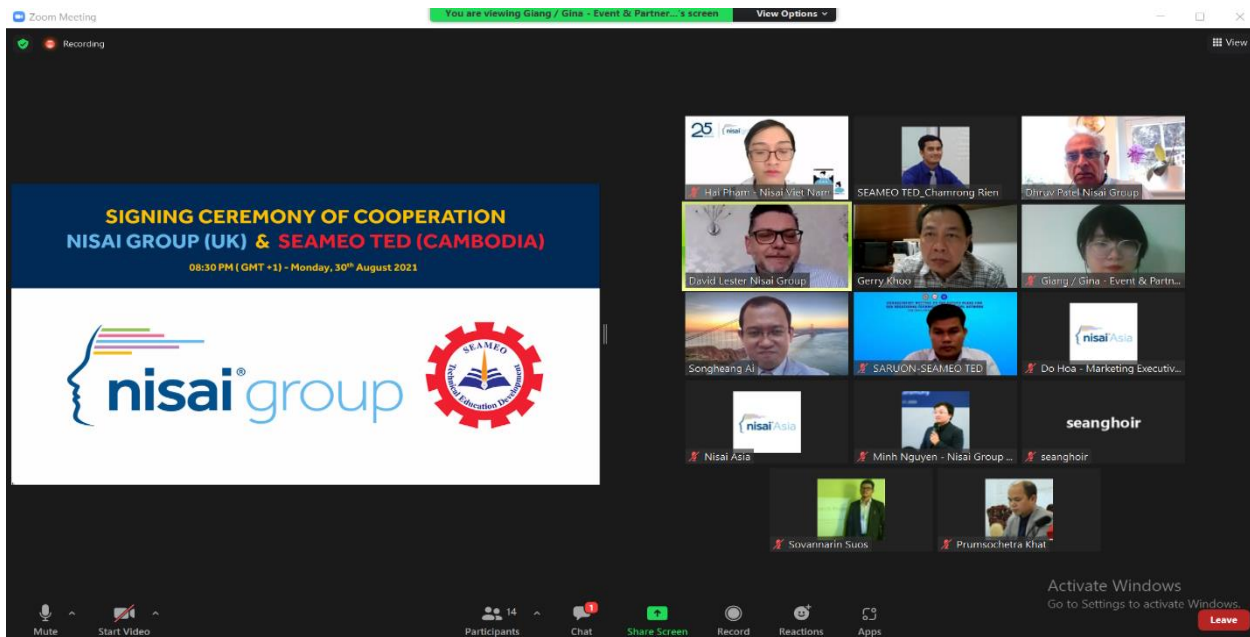
SEAMEO TED co-organized 3rd Consultation Meeting on SEA Vocational-Technical High School Network on 05 August 2021 virtually. The meeting was aimed to discuss future plans and activities for network members. The 49 participants join the meeting, all of whom are the members of SEA Vocational-Technical High School Network from SEAMEO member countries, SEAMES staff and SEAMEO TED staff. In the meeting, updates on the Progress of SEA Vocational-Technical High School Network was presented by SEAMEO Ted. In an opening remarks, **Dr. Ethel Agnes P Valenzuela**, SEAMEO Secretariat Director, gave opening remarks by updating progress of SEAMEO Members and emphasizing on strengthening cooperation in this time, especially for TVET remote teaching and learning. **Mr. Ansgar Schaefer**, TVET expert in charge of SEAMEO VOCTECH and SEAMEO TED, was invited to give Keynote Address. He recommended three important points to TVET. They are E-learning platform, Technology Capacity, and Regional Cooperation. **Ms. Jolin Nguyen**, SEAMEO Secretariat Officer in charge of TVET network, was invited to share Introductory Messages. She shared key points such as SEAMEO Polytechnic Network annual Meeting Since (2017-2019), SEA- TVET Student Exchange Programme (2018-2020), SEA-TVET Teacher Exchange Programme, and High Officials Meeting on SEA-TVET. **Prof. Dr. Do Van Dung**, Rector of University of Technology and Education, Ho Chi Minh City and Governing Board Member for SEAMEO TED, gave Keynote messages. He expressed his appreciation of SEAMEO TED's recent achievements. He suggested keys to success such as Digital transformation, Cooperation between institutions and industries, Quality of lecturers and Leadership, social media, Integration, New innovations, Infrastructure and Equipment, and Enough Budget.

Dr. Songheang Ai, SEAMEO TED Director also shared on Future Plans and Activities for SEA Vocational-Technical High School Network. He mentioned activities that SEA Vocational-Technical High School Network will be doing from July 2021 to June 2022. He also emphasized that SEA Vocational-Technical High School Network is formulating SEA Public-Private Partnership Network that will be participated by SEA private sector representatives as CEO, directors, managers and coordinators. Consequently, demand and supply can be matched in terms of skills development and upgrade for our SEA youth. **Ms. Qin Ziyang**, Go Study Global Education, China, gave Impressive Remarks. She stressed on the invitation to teachers and students from School Networks to visit China after the Pandemic. She also raised about the scholarship opportunities for teachers and students from School Networks to study in China.

In the discussion session, the members have remarkably raised some key points to be considered by SEAMEO TED and its partners as the follow: (1) Need for planned training topics and schedule to the network to manage participation of target teachers and students; (2) Innovating Project and Platforms for school, teachers and students; (3) Requesting for teaching online strategies especially for technical teachers; (4) How to make good relationship with China; and (5) Students and Teacher exchange program among Southeast Asian countries and China both offline or online.

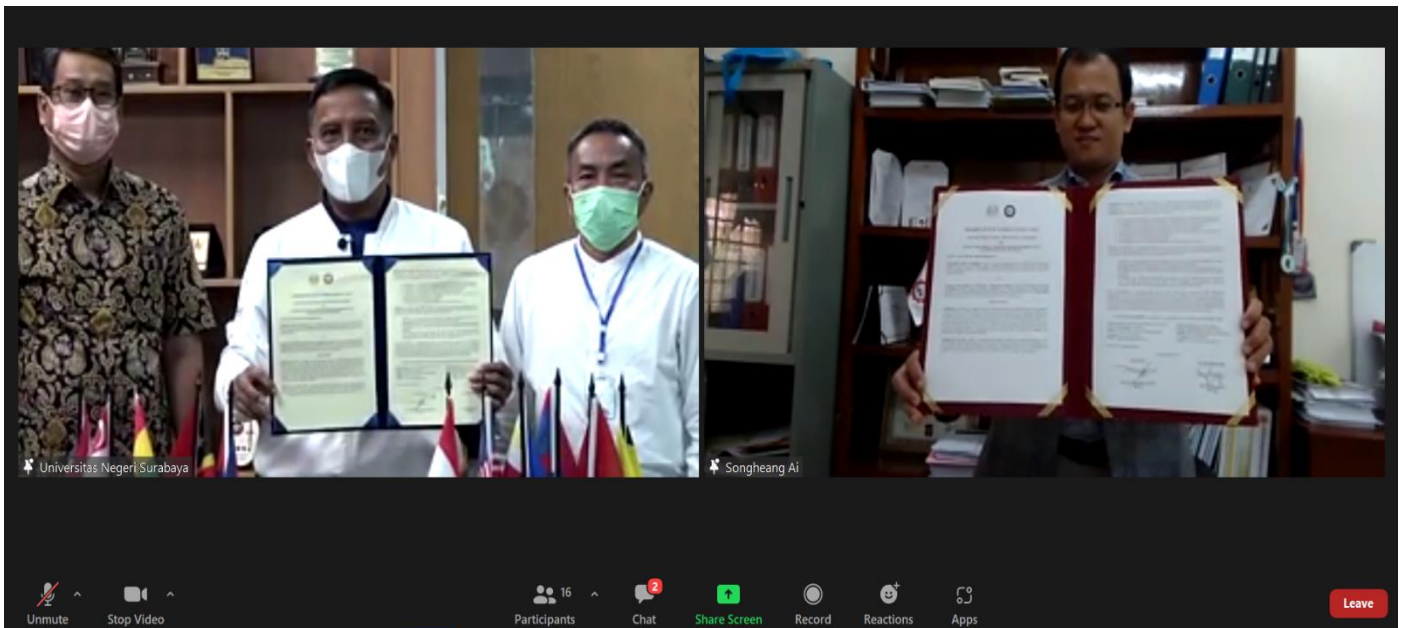
Finally, closing Remarks was given by **Dr. Songheang Ai**, SEAMEO TED Director. He appreciated active participation of all school network members in network events and activities. More importantly, he emphasized that presence and participation of school network members are so crucial for our network prosperity and growth.





SEAMEO Regional Centre for Technical Education Development signed on Memorandum of Understanding (MoU) with **NISAI GROUP (UK)** on 30th August 2021 (08:30 PM GMT +1) virtually. SEAMEO TED and Nisai recognize that they have many interests in common and that there will be mutual benefits from collaboration and co-operation. Therefore, they wish to formalise and standardise the relationship between the two parties in order to provide consistency, and a focal point, for the preparation and administration of programmes for collaboration and co-operation. There four main activities for potential collaboration and co-operation in MoU such as (1) to collaborate in the delivery of continuing professional development and teacher training programmes to school leaders, teachers, and supporting administrators in vocational and technical high schools and colleges in Cambodia and the ASEAN region; (2) to collaborate in the introduction of Functional English programmes and NOCN ESOL qualifications in Cambodia and the ASEAN region; (3) to facilitate the partnership opportunities between Nisai and vocational and technical high schools and colleges in Cambodia and the ASEAN region in the areas of vocational education leading to the UK's accredited vocational qualifications; (4) Other collaborative activities by mutual agreement in writing. **Dr. Songheang Ai**, Director of SEAMEO TED and **Mr. Dhruv Patel**, CEO & Founder of NISAI GROUP are the authorized representatives of both parties to sign on MoU.

SEAMEO TED signed MoU with Universitas Negeria Surabaya (UNESA), Indonesia



Southeast Asian Ministers of Education Organization Regional Centre for Technical Education Development signed on Memorandum of Understanding (MoU) with **Universitas Negeri Surabaya** (State University of Surabaya) on 02 September 2021 virtually. Since SEAMEO TED and UNESA have complementary objectives and mutual desire to collaborate in a number of areas to pursue common educational and human development, to this MoU both parties agree on six points such as (1) to collaborate in undertaking joint regional training programs, academic and cultural events for instructors, school directors, and students in applied science and vocational education; (2) to collaborate in undertaking joint regional research projects and publication; (3) to collaborate in undertaking joint regional community services program; (4) to collaborate in undertaking joint workshops, webinars, seminars, or conferences on technical and vocational education development; (5) to collaborate in teaching language programs; and (6) to facilitate students and teachers engagement and development activities. This Memorandum of Understanding (MoU) takes effect upon signing by the authorized representatives of both institutions and remains in force for a period of 5 (Five) years. **Dr. Songheang Ai**, Director of SEAMEO TED and **Prof. Dr. Nurhasan, M. Kes.**, Rector of UNESA are the authorized representatives of both parties.



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