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ITS – CSPC Partnership in
the Spirit of World Class
University Vision

ITS Professor Develops COVID-19 Detection Device

through Axillary Sweat Odor

Closing Ceremony of ITS X SOKA

University Project Studies

ITS Students Innovated a Waste Box

to Process Disposed Masks

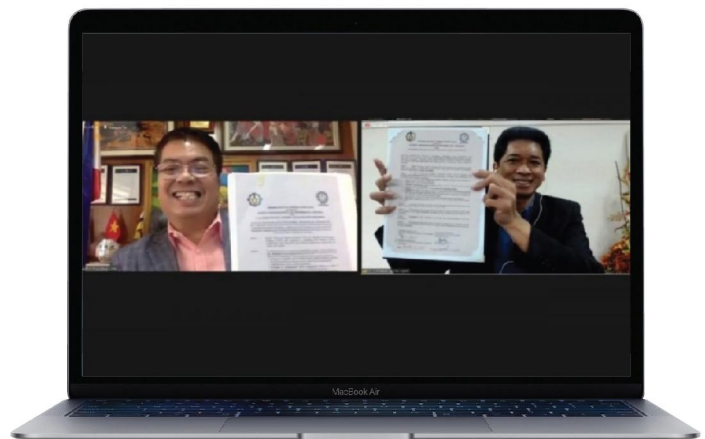
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Department of Commercial Sciences,
Business Management and Informatics, in Kortrijk, Belgium.

ITS – CSPC Partnership

in the Spirit of World Class University *Vision*

Amidst the COVID-19 pandemic, Institut Teknologi Sepuluh Nopember (ITS) has always been consistent in broadening partnerships with international institutions. On January 13, 2021, Bambang Pramujati S.T. M.Sc.Eng. Ph.D., as the Vice-Rector of ITS for Research, Innovation, Cooperation, and Alumni, signed a Memorandum of Understanding (MoU) with Dr. Charlito P. Cadag, the President of Camarines Sur Polytechnic Colleges (CSPC) Philippines. This partnership has been driven by the similarities of both universities in academic achievement, especially in the fields of engineering, science, and business management.



ITS will soon implement the partnership by inviting CSPC students to ITS virtual programs, such as e-exchange, e-internship, and e-short programs. ITS is also planning to send ITS International Undergraduate Program (IUP) students to CSPC once the pandemic is over. According to Dr. Charlito P. Cadag, this partnership is an extraordinary opportunity for CSPC to start a new journey with ITS since internationalization is on top of CSPC priority. The partnership between ITS and CSPC has once again marked ITS spirit on becoming a World Class University.

ITS Professor Develops Covid-19 Detection Device through Axillary Sweat Odor

Prof. Drs. Ec. Ir. Riyanarto Sarno, M.Sc. Ph.D., a professor from the Department of Informatics Engineering, Institut Teknologi Sepuluh Nopember (ITS) and his team, consisted of ITS post-graduate students have developed the i-nose c-19, the world's first COVID-19 detection device through axillary sweat odor. This innovation obtained development support from government after being presented in front of Prof. Bambang Brodjonegoro as the Minister of Research and Technology/Head of the National Research and Innovation Agency in Jakarta, Tuesday (19/1).

The i-nose c-19 has several advantages compared to other detection devices. It provides the sampling and processing system in one device, so that the result will come out faster than any other detection devices. It is equipped with a feature known a Near Field Communication (NFC), which means that the users only need to scan their e-KTP on this device to input their personal data. The use of cloud as a storage system allows the results to be integrated with the patients, doctors, hospitals, laboratories, and public. Lastly, the i-nose c-19 is also easy-to-use and inexpensive. Prof. Ryan revealed that the i-nose c-19 was the result of a four-year research which was later optimized by adjusting the COVID-19 since last March 2019. Currently, the i-nose c-19 has passed the phase one clinical trials. Ryan hopes that the i-nose c-19 can be distributed to the public no later than the next three months.



ITS Students Innovated a Waste Box to Process Disposed Masks

The usage of disposable masks due to the COVID-19 pandemic has caused an increase in mask waste. To overcome this issue, two students from Institut Teknologi Sepuluh Nopember (ITS) created Zero Mask Waste Box as a trash bin to process the mask waste. They are Rosalia Kurniasari from the Department of Chemical Engineering and Avelyne Christianti from the Department of Civil Engineering. The idea of this invention was inspired by the lack of people's awareness on waste management of disposable masks. This may lead to another form of virus transmission.

Zero Mask Waste Box has several features. In the front, there is a sensor as a tool to open the trash bin automatically. On the inside, this device has several functions, from a mask cutter, disinfectant spray, to a suction pump. This device is also equipped with a garbage disposal tube as a final disposal space for mask waste processing. A hand sanitizer dispenser is provided as a disinfectant for users after processing the trash. The has managed to amaze the judges and won the first place at the 2020 Mechatronics Essay Competition held by the Mechatronics Engineering Student Association, Trunojoyo University, Madura last December.



ITS – Soka Sinergy on Deconstructing Disaster



The susceptibility of Indonesia and Japan towards natural disasters makes both countries a living laboratory of natural disasters. Therefore, in the series of Institut Teknologi Sepuluh Nopember (ITS) and Soka University project studies, Soka students were assigned to unravel Indonesia's challenges with ITS students as the buddies. On January 13, 2021, the program was successfully culminated with a final presentation by Soka students.

From the discussion, Soka students believe that the problem of frequent earthquakes in Indonesia is because Indonesia is traversed by volcanic routes. However, the lack of awareness of natural disaster prevention had resulted in a high number of casualties. They later proposed a unique solution to improve disaster prevention education through a game, the “Bousai Games”. In this game, a question was raised, when there are only 2000 meals existed in a shelter with 3000 people, should the meals be distributed or not. This question will give participants two different perspectives on a decision and develop the analytical thinking of participants. This game is very suitable for disaster management education at an early age. Dr. Maria, the Director of ITS Global Engagement, welcomed this breakthrough program with enthusiasm and hoped that when the pandemic is over, Soka University students will be able to come and practice it in Indonesia.

Voice of Partner

In September 2017, I got the opportunity to give a guest lecture for the Department of Business Management, Institut Teknologi Sepuluh Nopember (ITS). The lecture was about “A practical approach to international trade, the case of Indonesia and Belgium/Europe”. The lecture went very well and ITS students swiftly adopted the complex matter. I was struck by their enthusiasm, their eagerness to learn and the way they collaborated to overcome the communication issue.

During the same stay, I also worked with ITS students on developing the business plan for the course New Venture Creation. Just like in Vives in Belgium, ITS students had to set up and run a small firm during their education. I was invited to coach the discussion wherein they searched for market opportunities and fitting products and services.

When I was at ITS, I met with Mrs. Maria, Mr. Imam, Mr. Berto, Mr. Saiful and other colleagues as we wanted to introduce our universities to each other and study both curriculums in detail. These meetings were the starting point for a further collaboration between our schools, and since September 2017 several exchanges took place already. Celine, student from Vives, did a two-months internship at Eternit Gresik in tandem with Andri, a student from ITS. Meanwhile, Mr. Imam and Mr. Nugroho from ITS gave lectures at the International Staff Week of Autumn 2018 at Vives. In April 2019, Johan Theuninck from Vives also gave a lecture at ITS.



Lieve Van Der Schueren,
A lecturer at the Vives University of Applied Sciences, Department of Commercial Sciences, Business Management and Informatics, in Kortrijk, Belgium.

This partnership with ITS has become very valuable to me and to my colleagues at Vives, from a cultural as well as from a professional perspective. I remember how upon my first arrival at the Juanda International Airport, I was welcomed by Mr. Wahyu from ITS Global Engagement and Petri, a student volunteer. They offered me a hot salted drink and kindly escorted me to my hotel. This hospitality was going to last my entire stay. I remember Rizqi and Kezia, as the most enthusiastic guides, showing me their home-city, Surabaya. I cherish the memories of my stay at ITS and I thank Mr. Ketut Buda Artana, the vice rector for the period of 2015-2019, Mrs. Maria Anityasari, the Head of ITS Global Engagement, Mr. Imam Baihaqi, the Head of the Department of Business Management 2015-2019, and all lecturers, staff and students of the department for their support. As I promised you then, I shared this nice experience with my colleagues at Vives. They look forward to settle and widen the exchange of students and staff between our schools. I wish our collaboration may grow the oncoming years, to the benefit of our students and their future.