

Curriculum Changes - A Foundation for Facing Global World

Institut Teknologi Sepuluh Nopember is a growing institution that aims for excellent academic performances as well as student development and achievements. To continually improve its quality of education, routine evaluation on the curriculum is held every five years through equivalence that is set to follow Indonesian Qualification Framework (IQF). The equivalence will lead to the process of curriculum updating. The updating will result on several changes in the number of credits of courses, learning outcomes and the learning methods given. As for now, character building and technological concepts become important elements to be enclosed in the new curriculum.

Furthermore, new departments were added for accommodating the need to fulfill the global demand of brilliant graduates. Interior Design Department, Business Management Department and Department of Multimedia and Networking Engineering were established in 2013, generating positive responses from the new students as they can focus more on their talent and interest.

Design Interior Department focuses on the innovation of human living space and its dependency on complementary elements within the building. The academic activities are supported by three laboratories – which are Environmental and Human Behavior at In Building, Building Science and Technology, and Building Design and Culture. Moreover, the department implements the combination between Laboratory Based Education System and Studio System, along with continuous assistance given by the lecturers and professional experts to enhance the effectiveness of the teaching process.

Business Management Department, initially developed under Industrial Engineering Department, was established to prepare the graduates for career in management. The program is intended to provide fundamental skills and knowledge about business in different competitive scenarios. Business Management Department implements international education system by involving experts from famous universities abroad, such as Prof Elizabeth L. Rose (Helsinki School of Economics, Finland), Prof Kym E. Fraser (University of South Australia, Australia), and Prof William J. Scheela (Bemidji State University, USA).

Department of Multimedia and Networking Engineering was initiated with the aim to fulfill the needs of graduates with competencies in multimedia and networking. The department is supported with four laboratories and sophisticated research facilities. The research groups in Department of Multimedia and Networking Engineering are actively working under four main fields, which are Game and Apps Development Group, Embedded System and Mobile Development, Network and Security Development, and Multimedia Development. There have been many publications, patents and awards accomplished since its early development, such as the first winner of Indonesian Art Robotic Contest and the third winner of Indonesian Football Robotic Contest.

ITS is currently working on to get ABET Accreditation as one initial step to visualize the vision to become world class research university. In addition, ITS is currently holding partnerships with more than 240 universities across the globe, supported by the emergence of international classes in several major departments in ITS and numerous programs held in English under the supervision of ITS International Office.

Further information about the admission process and requirement for international students may be found on www.international.its.ac.id/admission

Departmental Student Unions

Communication Forum for Internationalization

As the consequences of AEC (ASEAN Economic Community), ITS starts to put an effort to incorporate global perspectives in building collaborations with people and institutions abroad. Communication Forum for Internationalization is designed as a good "wake-up call" for the student associations in ITS to optimize the role of students, thus each of them will not only be the object of internationalization, but also the main subject to initiate it.

If people were to talk about internationalization, it will be started with the equality in competences, not only about the knowledge and commercial advantage in business or corporation, but also fundamental aspects such as language proficiency, mentality and attitude in facing global challenges.

Likewise, internationalization demands the borderless collaboration, meaning that student associations in ITS should be able to independently expand the links and networks. Additionally, they are introduced to international orientation system that will focus more on the softskill development and adaptation to campus environment.

Needless to say, ITS International Office, as the backbone of internationalization, will work arm in arm with the student associations to provide hospitality. Last but not least, overtly thinking about how internationalization will happen in practice, it is about the time to upgrade the big events in ITS to higher level, targeting international market in the near future.



ISIP COMPETITION 2014

ITS Students Internationalization Project (ISIP) Competition was established as the effort to bring the students along to create internationalization environment. The program assisted the students to directly engage and contribute in objectifying internationalization.



Fifteen teams from fifteen different departments took part in this competition. Yoghata Sulistya, the winner of ISIP Competition, from Chemical Department stated, "We are grateful to winning ISIP Competition. It is not an easy task to begin with, but we must work hard to overcome the obstacles. Now, we are hoping for the full support from the faculty and ITS so that the continuation of the program can be assured".

Hopefully, through ISIP Competition, ITS will be able to boost the awareness of ITS students to prepare for internationalization by developing special programs and events to help the communities in facing up global challenges.



SAKURA Exchange Program

SAKURA is the program intended by "Japan-Asia Youth Exchange Program in Science" targeting Asian youth that mainly registered in the field of science and technology. The program was held from August 2nd to 8th, 2014 with the total of 10 participants from ITS. During the visit, the participants were given a chance to visit Kumamoto University. The participants were introduced to campus environment through campus and laboratory tour. The participants were split into seven different laboratories, depending on the participants' field of study. The program continued to Fukuoka, here the participants were given the opportunity to visit the Fukuoka Science Museum, which offered an abundance of features and various exhibitions about science.

Dewi, one of the participants who is currently taking her Master Degree in Industrial Engineering Department in ITS, stated, "By joining this program, I have gained a valuable experience that I could share to the students in my university. I hope my short visitation to Laboratory of Intelligent Machine Manufacturing in Kumamoto University will give positive impact to my department, especially in developing the current learning system".

The preview of SAKURA program can be seen on: <https://www.youtube.com/watch?v=UnwIWlBzRjpl>



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io opener

THE ITS WINDOW TO THE INTERNATIONAL WORLD

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quick recap




TESCA AWARD

Earlier this year, ITS has won a prestigious TeSCA Award, listed as the first runner-up in the Top National Winner category. Telkom Smart Campus (TeSCA) Award is a self-assessment program to measure the utility of information and technology in higher educational institutions in Indonesia.

Dr Ir Achmad Affandi DEA, Head of Lembaga Pengembangan Teknologi Sistem Informasi (LPTSII) or Unit of Information Systems Technology Development expressed, "I hope we can implement the recommendations and advices from TeSCA adjudicator team. Hence we can improve and develop better IT system later in the future".

hello from ITS!

The need for competitive human resources increases in the globalization era. In order to meet that need, Indonesian education has to comply with the new developed Indonesian Qualification Framework (IQF). Therefore, ITS marks this year with the change of curriculum that aims the learning outcomes outlined in IQF.



Not only that, at the undergraduate level ITS includes compulsory courses on technological concepts to optimally utilize natural resources, character building, and techno-preneurship. Through this new curriculum, ITS will equip its students to be more qualified people to manage the abundant natural resources in Indonesia and to able to compete in national and global job market. In this IOpener, you will find brief information about the changes of our curriculum.

As part of ITS commitment to provide holistic education, ITS supports student activities which enable the students to develop their softskills through organizational activities, group discussions, workshops, exchange programs, etc. This great attention to our students generates student's great achievements, for instance: becoming the champion in the 26th of National Student Science Week (Pekan Ilmiah Mahasiswa Nasional), attaining the Spirit of Atlantic Challenge Award in the Atlantic Challenge International (ACI) 2014, and many more. Those achievements will also be highlighted in this IOpener edition.

This year, we also celebrate the success of CommTECH Camp 2014 which was held on last 25 August – 2 September with 57 participants from 18 different countries. Considering the good responses to this program, we are going to release a new concept of CommTECH Camp next year. Instead of one CommTECH program annually, in 2015 we are going to organize two CommTECH Camps in February and August. This will facilitate overseas partners who have different summer break within their academic year. You will find the brief diary of CommTECH Camp 2014 in this edition. We believe the diary will inspire you to join our next CommTECH Camp, if you have not done so....

Please do not hesitate to contact us for future collaboration in all aspects, including education, student activities, research, and projects. We are looking forward to welcome you all..

Prof. Dr. Ing. Ir. Herman Sasongko
Vice Rector for Academic and Students Affairs

INTERNATIONAL INSIGHT

In the effort to reach wider community in campus, an event namely International Insight was held by ITS International Office, mainly targeting freshman from all departments in ITS. Another special event was put in between the series of International Insight agendas, which was the closing of CommTECH Highlight 2014. The 57 participants of CommTECH Highlight 2014 that came from 18 different countries performed traditional Angklung musical performance and Saman dance as well as shared their impression during their two-week stay in Indonesia.

In accordance with the name of the event, ITS International Office wishes that International Insight will motivate and encourage the students to be ready to grab the global challenges and opportunities.



10 New Offers

Continuing 2012 - 2014 Community and Technological (CommTECH) Camp, this year ITS again offers very fascinating programs for international partners to learn ITS expertise and involvement in society. The programs include Indonesian language course, traditional music and dances class, batik making, and not to forget enjoying delicious Indonesian cuisine. Visiting Surabaya communities and tourist destinations will certainly become an inseparable part of the programs.

Not only repeating the success of the previous programs, ITS innovates by offering three programs – which are **CommTECH Insight (February)**, **CommTECH Highlight (August)** and **Customized Short Programs** – to accommodate the needs and schedule of various international partners.

The sneak peek into the programs can be found online on: <http://io.its.ac.id/commtechcampits2015/>






Mar'atus Sholihah

Master Student at the Industrial Engineering, ITS, Indonesia
Mobility Student at Master in Services Engineering and Management, University of Porto, Portugal

I am really grateful to be one of the INTERWEAVE's grantees at the University of Porto (UPorto), Portugal. This opportunity makes my dream come true to experience the incredible moments in terms of education, cultural and personal life. By participating at the international mobility program, I will definitely obtain more knowledge, wide network and valuable experiences which enrich my academic background as well as my personal capability. I think now is the right time to participate and gain reciprocal advantages in any international partnership and community for all ITS student. The world is waiting for us.

Hani Ramadhan



Master Student at Computer Science Engineering, ITS, Indonesia (Fast Track)
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Currently, I am taking study program in Master of Complex System and Interaction with System and Information Technology specialization at Université de Technologie de Compiègne (UTC), Compiègne City, France. I have been trying to adapt with the foreign environment and multicultural society here. This multicultural environment encourages me to learn more to interact with people from different culture backgrounds.

I hope ITS can embrace more knowledge about international world, just like this French proverb: "Les voyages forment la jeunesse". By having more knowledge about internationalization, we, ITS stakeholders, are going to be able to recite various issues from national perspective guided by international knowledge and experience. So, let's enrich ourselves with international exposure experiences!

Bon courage! Au revoir!

Diaries of CommTECH 2014

Community and Technological (CommTECH) Highlight 2014 was successfully held with 57 participants from 18 countries all across the world. This event brought up "Solving Local Problems with Global Knowledge" as the theme, providing opportunities to participate in finding solutions to local issues and to learn more about Indonesia's diverse heritage. This diary will provide you a glimpse to the day-to-day activities during their stay in Indonesia.

day 1
August 25

The first day of CommTECH 2014 was officially begun with 57 CommTECH 2014 participants gathered together from 18 countries all over the world. The first agenda was Campus Tour, having library and laboratories as our destinations. We also learned how to make *tempe*, one of Indonesia traditional cuisine.

The day was closed with welcome dinner. Despite all the differences and language barrier, the special night was spent with warm dinner and having participants and committees blending, singing and dancing together.



day 2
August 26

We had so much fun learning common phrases and words in Bahasa Indonesia. We also visited YPPI to learn Indonesian traditional music, *angklung* and *gamelan*, and *Saman* dance. Late in the afternoon, we played Indonesian traditional games. The so-called games, *Bola Gotong*, *Bakiak* race, *Karung* race and finding the coins, were very unique and challenging. All participants were thrilled to play the games together.



day 3
August 27

The long awaited Batik Day! We had formal course earlier in the morning to introduce us to Batik before visiting Rumah Batik Jawa Timur. We were glad to see various types of Batik motives and souvenirs. Moreover we could directly involve in Batik production and even make our own Batik.



day 4
August 28

Indonesia, as a maritime nation, has a considerable number of islands. We were brought in to know deeper about Indonesia through Maritime Transportation course, covering the materials of maritime transportation types and working system. The next schedule was Small and Medium Enterprises (SMEs) Visitation. The committees gave us vouchers that could be used to buy products from the SMEs. "I wonder how all of this could be surprisingly cheap!", was all the participants said.



day 6
August 30

We visited Mud Volcano (*Lumpur Panas Lapindo*), the infamous massive industrial disaster, located near Surabaya. Along with a sense of wonder, we truly expected this condition would soon be improved and the local people could return to live in peace.

Our next destination was the exploration of *Bhakti Alam*, a farm producing fresh milk, and fruits. It owned a biogas plant by cultivating cow feces as one of the energy source. We continued our trip to *Sawiran*, closing the day by enjoying camp fire with the company of tasty roasted corn and committees.



day 7
August 31

Today was really the day we eagerly anticipated. The participants were impatiently waited for the 16 jeeps that would carry us to Mount Bromo. We went mount climbing to reach Love Hill and the rumbling crater. We were astonished by the magnificent scenery laid out in front of us. We reached *Songa Rafting Adventure* later. We were keen for rafting as it was the very first experience for most of us. It was amusingly amazing and fun!



day 8
September 1

Robotics was a pleasant topic for us. We were given a chance to have course and visit ITS Robotic Building and laboratories. There were dancing robots, firefighter robot, football player robot and many more. Next, we were introduced to the electric car developed by ITS lecturers and students under the *Molina Team*. The deep red car has automatic transmission. All of the participants were very eager to ride and to take pictures with it.



day 9
September 2

There will always be good bye after every meeting. CommTECH 2014 has finally come to an end. The togetherness we felt after almost two-weeks of our stay in Indonesia would be the memories we would cherish in our lives. Before saying our last goodbye, we presented *angklung* and *saman* dance. There were representatives from the participants who gave special enactments. Leo from U.K who sang a very beautiful song about friendship, Jason Lee who wrote a beautiful poem about CommTECH 2014, and Slim and Jane who gave testimony regarding the event. "We would like to express our gratitude to the committees, we hope that we will meet again very soon in different occasions!"



day 5
August 29

We started our day with unique dance called *Poco-poco*. "Poco-poco is unique exercise and originally from Indonesia, the steps are very simple and easy to follow. Love it!", said one of the participants. We rode bicycles to reach the next destination for the Tree Planting. We were accompanied by special guests, Prof. Alan Owen from Robert Gordon University, UK, and volunteers of TEDx ITS Surabaya. One special tree was planted to symbolize CommTECH 2014, carved with a beautiful phrase, "Uniting Proficiencies for Global Friendship".

