

## Press Conference on the EV Hackathon



Picture from l - r: Prof. Dr.-Ing. habil. Suchart Siengchin (1<sup>st</sup>), KMUTNB President, Mr. Asi Mamanee (2<sup>nd</sup>), Director-General of the Department of European Affairs, Ministry of Foreign Affairs of Thailand and H.E. Mr Georg Schmidt (3<sup>rd</sup>), The German Ambassador to Thailand co-pressed the press conference.

On 2 June 2022, at the Press Conference Room, Ministry of Foreign Affairs, Prof. Dr.-Ing. habil. Suchart Siengchin, KMUTNB President, attended the press conference to announce the organization of the EV Hackathon: "Future EV Mobility Creative Contest for Sustainability," which will be held by the cooperation between KMUTNB, the Ministry of Foreign Affairs and the German Embassy in Bangkok to celebrate the 160<sup>th</sup> anniversary of Thai-German diplomatic relations. The event aims to promote the public awareness about the advantages and importance of electric vehicle. Moreover, it will spark the young generation's interests in EV technology and also raise public awareness about the sustainability of clean energy.

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## The Satellite Payload Construction Project by the TGPS' students



On 20 May 2022, Prof. Dr.-Ing. habil. Suchart Siengchin, KMUTNB President, presided over the press conference of the Satellite Payload Construction Project by the students of the Thai-German Pre-Engineering School (TGPS). Space Technology is one among distinguished specializations of KMUTNB that was widely recognized since the launching of a 1U-CubeSat satellite called "KNACKSAT" to space in 2018. In 2022, KMUTNB determines to launch the satellite payload building project for the high school students of TGPS.

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## Academic Cooperation



### The EV Hackathon:

This EV Hackathon will contribute to prepare the future human resources for the EV industry which will become increasingly important due to the 30/30 policy of the Government of Thailand targeting to push Thailand towards having at least 30% of Zero Emission Vehicle (ZEV) from the total

domestic vehicle production by 2030. It will be held from June – August 2022 for students between the ages of 18 and 35. The teams of contestant will attend the online training program and only the last 8 teams will go into the final round of EV Hackathon held between 27 – 28 August 2022 at King Mongkut's University of Technology North Bangkok. In the final round of 24-hour EV Hackathon, the teams of contestants will work on a project involved with the future EV green transportation for sustainability.

### The Satellite Payload Construction Project:



KMUTNB has endeavored to develop the education and research in Space Technology, because it is very impactful to the social and economic progress of the country. Therefore, KMUTNB determines to extend the academic excellence in the field of Space Technology to the high school level, and to apply it to the arrangement of an extra curricular activity of TGPS. This also complies with STEM education, an integration of science, technology, engineering and mathematics to create learning activities. So, the students will be able to practice applying those four disciplines to solve problems, since the process of building satellite requires knowledge in science, technology, engineering and mathematics.

### University of Southern Denmark, Denmark



On 11 April 2022, at Faculty of Engineering, Assoc. Prof. Dr. Petch Jearanaisilawong (4<sup>th</sup> from l-r), Associate Dean for Administrative Affairs, Asst. Prof. Dr. Tanaporn Rojhirunsakool (2<sup>nd</sup> from l-r), Director of Center for International Engineering Programs, and Ms. Phimvalanch Moosikaphan (1<sup>st</sup> from l-r), Director of International Cooperation Centre, Office of the President, warmly welcomed Assoc. Prof. Dr. Henrik Johnsen Vindt (3<sup>rd</sup> from l-r), Assistant Director of TEK Internationalisation, Faculty of Engineering, University of Southern Denmark.

He visited KMUTNB to have a meeting with the team of executives of Faculty of Engineering to explore the potential areas for future collaboration. Currently, the Faculty of Engineering offers international programs in Chemical Engineering, Innovative Materials Engineering, and Electrical & Aerospace Engineering.



## Academic Cooperation

### UNESCO-KMUTNB Small Grants Program



On 5 April 2022, at Vjittvatee Conference Room, Building 81, Faculty of Engineering held the event for presenting the outcomes of the project entitled “UNESCO-KMUTNB Small Grants Program for Early Career Researchers and Young Professionals in AI,” which is the collaboration between King Mongkut’s University of Technology North Bangkok (KMUTNB) and United Nations Educational, Scientific and Cultural Organization (UNESCO). The event was co-presided by Assoc. Prof. Dr. Udomkiat Nontakaew, Dean of Faculty of Engineering, and Mr. Shigeru Aoyagi, Director of UNESCO Bangkok office. There were six projects being carried out by KMUTNB’s faculty members and students.

### Nepal Academy of Science and Technology (NAST), Nepal

On 8 June 2022, at Ratchapruek Room, KMUTNB, the MOU signing ceremony between KMUTNB and the Nepal Academy of Science and Technology (NAST) was organized, which was honored by the presence of Mr. Lekh Nath Gautam, Counsellor/ Deputy Chief of the Mission and Deputy Permanent Representative of Nepal to UN ESCAP, the Nepal Embassy in Bangkok. The MoU officially established



the cooperation on the design and development of satellite payload between NAST and the International Institute of Space Technology for Economic Development (INSTEAD), KMUTNB. The MoU was signed by Dr. Sunil Babu Shrestha, Vice-Chancellor of NAST, and the representative of KMUTNB side was Prof.-Dr.-Ing. habil. Suchart Siengchin, President, and Dr. Phongsatorn Saisutjarit, Acting Director of INSTEAD.

Picture from l - r of sitting row: Dr. Phongsatorn Saisutjarit (1<sup>st</sup>), Acting Director of INSTEAD, Asst. Prof. Preecha Ong-aree (2<sup>nd</sup>), Advisor to the KMUTNB Council Committee, Prof.-Dr.-Ing. habil. Suchart Siengchin (3<sup>th</sup>), KMUTNB President, Dr. Sunil Babu Shrestha (4<sup>th</sup>), Vice-Chancellor of NAST and Mr. Lekh Nath Gautam (5<sup>th</sup>), Counsellor/ Deputy Chief of the Mission of the Nepal Embassy in Bangkok.

### KMUTNB Staff Mobility Program 2022: Cultural Diversity



During 23 - 27 May 2022, International Cooperation Centre, Office of the President, virtually organized the KMUTNB Staff Mobility Program 2022: Cultural Diversity. The project was aimed to promote cultural exchange among the supporting staff and broaden their perspectives.

This program was attended by over 20 representatives who are in charge of coordinating international cooperation from partner universities from South Africa, Germany, Indonesia, Ghana, Ethiopia, and Japan.



## Academic Cooperation

### International Conference on Computing and Information Technology (IC<sup>2</sup>IT)

During 19 - 20 May 2022, the Faculty of Information Technology and Digital Innovation, KMUTNB Kanchanaburi Rajabhat University and Council of IT Deans of Thailand (CITT) had co-hosted the 18<sup>th</sup> National Conference on Computing and Information Technology (NCCIT) and the International Virtual Conference on Computing and Information Technology (IC<sup>2</sup>IT). The conference was aimed to contribute



Picture from l-r of the right top corner: Prof. Dr. David Abramson (1<sup>st</sup>), University of Queensland, Australia and Assoc. Prof. Dr. Guidong Zhang (2<sup>nd</sup>), Guangdong University of Technology, China, were keynote speakers of the conference.

in the enhancement of globalisation and tackling emerging global problems through the dissemination and exchange of knowledge about computers and information technology, such as artificial intelligence, machine learning, natural language processing, etc.

Also, this is a unique platform for participants to present and discuss their research, and exhibit innovative research in computing and information technology.

### 9<sup>th</sup> International Conference on Technical Education)

On 9 June 2022, Prof. Dr. Somrerck Chandra-ambhorn, Vice President for Research and Information Technology Development, presided over the opening ceremony of the 14<sup>th</sup> National Conference on Technical Education and the 9<sup>th</sup> International Conference on Technical Education (Hybrid Conference), which was organized from 9 - 10 June 2022. This conference was hosted by the Faculty of Technical



Education, KMUTNB, and the Association of Industrial Education Thai (AIET). Prof. Dr. Gyeong Ho Choi, President of Korean Auto Vehicild Safety Association, Korea was a keynote speaker on the topic “Exergy Analysis of Blended Learning to the next Generation.” The participants from different countries had a chance to exchange knowledge and experiences, and the papers presented in the conference were also indexed in IEEEExplore/Scopus database.

### 12<sup>th</sup> Joint Symposium on Computational Intelligence (JSCI12)



Picture from l - r of the 1<sup>st</sup> Row, Assoc. Prof. Dr. Phayung Meesad (1<sup>st</sup>), KMUTNB, Prof. Dr. Sung Wook Baik (2<sup>nd</sup>), Sejong University, Korea and Prof. Dr.-Ing. habil. Herwig Unger (3<sup>rd</sup>), FernUniversität in Hagen, Germany, participate the symposium.

On 29 April 2022, the Joint Symposium Computational Intelligence (JSCI12) was organized by the cooperation of researchers and lecturers from many educational institutions, including Assoc. Prof. Dr. Phayung Meesad and Asst. Prof. Dr. Maleerat Sodanil, lecturers of the Faculty of Information Technology and Digital Innovation, KMUTNB.

At this conference, 250 participants joined to discuss their research and share their knowledge in the field of computational intelligence.



## Academic Cooperation

### FernUniversität in Hagen, Germany



Picture from l - r: Ms. Sikan Kulchonchan (1<sup>st</sup>), Vice President for International Affairs, Prof.-Dr.-Ing. habil. Suchart Siengchin (2<sup>nd</sup>), KMUTNB President, Prof. Dr.-Ing. habil. Herwig Unger (3<sup>rd</sup>), and Assoc. Prof. Dr. Phayung Meesad (4<sup>th</sup>), Director of KMUTNB Central Library.

On 7 June 2022, Prof. Dr.-Ing. habil. Herwig Unger, Chair of Communication Networks FernUniversität in Hagen, attended a meeting with Prof. Dr.-Ing. habil. Suchart Siengchin, KMUTNB President, and the team of executives to report the progress of the cooperation between KMUTNB and FernUniversität, Germany, which has been carried out between 7 April to 12 June 2022. During his visit, Prof. Dr.-Ing. habil. Herwig Unger acted as a member of a thesis defense committee for the KMUTNB PhD. student, and also worked closely with the team of faculty of Industrial technology and Management, KMUTNB Prachinburi Campus to develop the Creative Lab, etc.

### Multimedia University, Malaysia



On 5 April 2022, Ms. Sikan Kulchonchan, Vice President for International Affairs, Asst. Prof. Dr. Tanaporn Rojhirunsakool, Director of Center for International Engineering Programs, and Asst. Prof. Nophadon Wiwatcharagoses, Head, Department of Electrical and Computer Engineering, warmly welcomed Assoc. Prof. Dr. Way-Soong Lim, Director of the International Relations Office, Multimedia University (MMU), Malaysia, and discussed about the intensification of the cooperation between KMUTNB and MMU.

### Bochum University of Applied Sciences, Germany



On 29 April 2022, Ms. Sikan Kulchonchan (3<sup>rd</sup> from l-r), Vice President for International Affairs, and Assoc. Prof. Dr. Rattanakorn Phadungthin (1<sup>st</sup> from l-r) Associate Dean for Lifelong Learning, College of Industrial Technology, KMUTNB, warmly welcomed Mr. Mustafa Emir (2<sup>nd</sup> from l-r), a student from Bochum University of Applied Sciences, Germany, who came to do an internship at KMUTNB in the field of Electric Engineering from 1 April to 30 September 2022.

### Wroclaw University of Science and Technology, Poland



On 23 May 2022, at International Cooperation Centre's Meeting Room, Ms. Anna Maria Rogalska, Head of International Relations Office, Wroclaw University of Science and Technology (WUST), Poland, was warmly welcomed by representatives from TGGs and Faculty of Architecture and Design, and had a meeting with the team of KMUTNB to explore further collaborative opportunities, especially in the fields of Electrical Engineering and Architecture.



## Campus News

### The “KMUTNB Leadership Camp 2022: Going Global”



Picture from l - r: The opening ceremony was virtually presided by Ms. Sikan Kulchonchan (1<sup>st</sup>), Vice President for International Affairs, and the moderators of the programs are Dr. Venus Dennen Claver(2<sup>nd</sup>), Dr. Mariano Carrera (3<sup>rd</sup>), Dr. Aratchaphorn Pensiri (4<sup>th</sup>).

During 27 – 30 June 2022, the Virtual “KMUTNB Leadership Camp 2022: Going Global” was held by International Cooperation Centre, KMUTNB. This program was organized to improve leadership skills and to deepen understandings in the UN’s Sustainable Development Goals among the participants.

44 representatives of students from KMUTNB and partner universities in Philippines, China, Indonesia, Malaysia, Taiwan, and Myanmar discussed and brainstormed together to make projects and presentations.

### Institut Teknologi Sepuluh Nopember, Indonesia



Picture from l - r: Mr. Parit Phanichakarn (5<sup>th</sup>), Foreign Relations Officer, International Cooperation Centre (ICC), KMUTNB led the team of KMUTNB’s delegates to greet Dr. Maria Anityasari (3<sup>rd</sup>), Director of International Office, and Mr. Muh. Wahyu Islami Pratama (6<sup>th</sup>), Manager for CommTECH & Mobility Program.

During 6 - 11 June 2022, 4 delegates of KMUTNB participated the “ITS Inbound Staff Mobility Program 2022” which was organized by Institut Teknologi Sepuluh Nopember (ITS) in Surabaya, Indonesia.

They attended series of meeting and workshops to share experiences and exchange views on working in higher education institutions with the participants from across the world. Also, they visited several departments and offices in ITS. The participants had a chance to build networking with staff from partner universities of ITS, and also promoted their own university to ITS students.

### Esslingen University of Applied Sciences, Germany



Picture from l-r: Prof. Dr.-Ing Ralph Schmidt (3<sup>rd</sup> from l-r), Associate Dean of Faculty Mechanical and Systems Engineering is one of supervisors at the City Centre Campus for the project of 3 internships from CIT.

From 1 April 2022 to 31 May 2022, the seven students of the Departments of Electronics Engineering, Electrical Engineering and Mechatronics Engineering, College of Industrial Technology (CIT), KMUTNB, took an internship at Esslingen University of Applied Sciences. Four students worked on their projects at the Labs of Göppingen Campus, Prof. Dr. Stefani Maier and Prof. Dr.-Ing. Ulrich Ammann were their supervisors, while other three students did an internship at the City Centre Campus, Prof. Dr.-Ing. Peter Häfele and Prof. Dr.-Ing Ralph Schmidt were supervisors.

In 2001, KMUTNB entered into MoU with Esslingen University of Applied Sciences, which was aimed to promote the cooperation, especially the internship program. Since then, the students of CIT have been provided with an opportunity to take an internship in Germany to increase their experiences in working in the international environment.



## Campus News

TH Rank	Asia Rank	University	Scores
1	145	Mahidol University	38.84
2	201-250	Mae Fah Luang University	34.58
3	201-250	King Mongkut's University of Technology Thonburi	34.50
4	201-250	Chulalongkorn University	32.65
5	301-350	Chiang Mai University	28.04
6	351-400	Suranaree University of Technology	24.85
7	401-500	Khon Kaen University	24.31
8	401-500	King Mongkut's Institute of Technology Ladkrabang	23.69
9	401-500	Thammasat University	20.99
10	501+	King Mongkut's University of Technology North Bangkok	20.08
11	501+	Silpakorn University	19.87
12	501+	Prince of Songkla University	19.31
13	501+	Naresuan University	19.31
14	501+	Kasetart University	19.12
15	501+	Srinakharinwirot University	15.56

In 2022, the Asia University Rankings published by the Times Higher Education (THE) magazine featured 23 Thai universities in the overall THE University Rankings, while KMUTNB has been ranked the 10<sup>th</sup> place among the top universities in Thailand and 500+ among the top educational institutions across Asia. The performance indicators in this ranking include five areas: Teaching 25%, Research 30%, Citations 30%, Industry Income 7.5% and International outlook 7.5%.

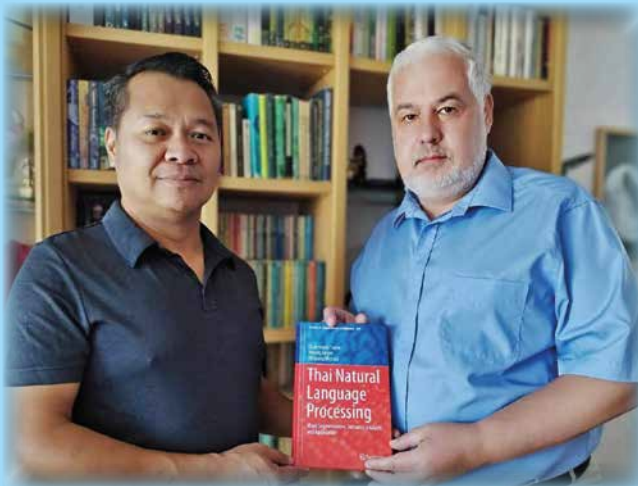


KMUTNB has been ranked among Thailand's top three universities in Engineering – Mechanical, Aeronautical & Manufacturing by the QS World University Ranking by Subject 2022.



KMUTNB has been ranked the 2<sup>nd</sup> place in Thailand and 58<sup>th</sup> place in the world by the Impact Rankings 2022 published by Times Higher Education (THE).

## KMUTNB Visiting Researcher at FernUniversität in Hagen, Germany



Picture from l-r: Assoc. Prof. Dr. Anirach Mingkhwan (1<sup>st</sup>) and Prof. Dr.-Ing. Herwig Unger (2<sup>nd</sup>) Chair of Communication Network, FernUniversität in Hagen.

During 12-26 June 2022, Assoc. Prof. Dr. Anirach Mingkhwan was invited to be a visiting researcher and have a research stay at FernUniversität in Hagen, Germany. His research is in the field of NLP methods for text classification and summarisation; and he plans to work on the book entitled “Graph-based Methods for Library Management.”

Over a decade, KMUTNB has collaborated with FernUniversität in Hagen on series of projects for the research and academic development. Particularly, Assoc. Prof. Dr. Anirach Mingkhwan is a former Dean of Faculty of Industrial Technology and Management, KMUTNB Prachinburi Campus. He is one among the team of KMUTNB lecturers who worked closely with the team of FernUniversität. He contributed to the success of the establishment of the Creative Lab at Prachinburi Campus, and he is also working on a joint publication with Prof. Dr.-Ing. Herwig Unger.

## MoU with Robert Bosch Ltd.



Picture from l-r: Mr. Joseph Hong, Managing Director (3<sup>rd</sup>), Prof. Dr.-Ing. habil. Suchart Siengchin (4<sup>th</sup>), KMUTNB President.

On 7 April 2022, at TGGS Building, the MoU signing ceremony between KMUTNB and Robert Bosch Ltd. was held. The KMUTNB side was represented by Prof. Dr.-Ing. habil. Suchart Siengchin, KMUTNB President, and Prof. Dr.-Ing. Nisai Fuengwarodsakul, Dean of TGGS, while the other side was represented by Mr. Joseph Hong, Managing Director of Robert Bosch Ltd. and Mr. Martin Knoss, Regional President of Powertrain Solutions ASEAN of Robert Bosch Automotive Technologies (Thailand) Co., Ltd.

## German-Thai Conference on “The Future is Rail”

On 10 May 2022, at Eastin Grand Hotel, H.E. Mr. Saksayam Chidchob (4<sup>th</sup> from l-r), Minister of Transport, and H.E. Mr. Georg Schmidt (3<sup>rd</sup> from l-r), the German Ambassador to Thailand, attended the German-Thai Conference: “The Future is Rail” and co-presided over the MoU signing ceremony between the German Railway Industry Association (VDB) and the German-Thai Railway Association (GTRA).



The GTRA side was represented by Prof. Dr.-Ing. Nisai Fuengwarodsakul (2<sup>nd</sup> from l-r), Dean of TGGS and Chairman of GTRA, while the VDB side was represented by Dipl.-Ing. Axel Schuppe (5<sup>th</sup> from l-r), General Manager, German Railway Industry Association. The MoU will promote the exchange of knowledge and technology between the two associations.

## MoU with TWI Limited, UK



On 15 June 2022, the Virtual MoU signing ceremony between KMUTNB and TWI Limited., UK was held online.

The goal of this MoU was to establish the National Structural Integrity Research Centre (NSIRC). The MoU was signed by the representatives of two organizations, including Prof.

Dr. Tat-Hean Gan, Innovation and Skills Director of TWI Ltd, and Prof. Dr. -Ing. Nisai Fuengwarodsakul, Dean of the Sirindhorn International Thai-German Graduate School of Engineering (TGGS). The future cooperation will emphasize on an industry focused post-graduate research centre under the NSIRC International programme, which will be the first centre in Thailand. NSIRC's programmes aim to equip students with high-level research skills and industrial experience.

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