

Curriculum Development in Data Science and Artificial Intelligence

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DS&AI Info Days Report: Events & Plans

In Indonesia, Sri Lanka and Thailand

August 2020

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Contents

Contents	2
Abstract	4
Objectives of DS&AI Info Day Events	5
Organized Events and Planned Future Events	5
Asian Institute of Technology (AIT), Thailand	5
Organized Events	5
OCSC International Education Expo 2019	5
AIT Roadshow -Yangon	6
AIT Roadshow - Nepal	8
Planned Future Events	10
AIT DS&AI Info Day	10
Khon Kaen University (KKU), Thailand	10
Organized Event	10
Virtual Forum on AI for Healthcare in Post COVID-19 era (ai.kku.ac.th)	10
Future Skill New Career Thailand	12
Planned Future Events	12
Memorandum of Understanding (MOU) signing ceremony between KKU and AKSORN Education	12
InfoDay	12
Super AI and AI for all by KKU Science Park	12
The 16th Thailand Olympiad in Informatics 2020 at KKU	13
Walailak University (WU), Thailand	13
Organized Events	13
Planned Future Events	13
Info Day 1	13
Info Day 2	13
Info Day 3	13
Universitas Sumatera Utara (USU), Indonesia	14
Organized Events	14
Focus Group Discussion Dissemination DS&AI	14
The 2020 International Conference DATABIA	16
Dissemination of Flyers, Brochures and Posters	17
Dissemination of Video	18
Publications	18
Planned Future Events	18
Webinar on Data Science and Artificial Intelligence	18
Open Registration for Student Intake	18
Institut Teknologi Bandung (ITB), Indonesia	19
Organized Events	19
Professional training courses: AI for Executive Education	19
Info Day	20
Dissemination of DS&AI options for magister students	20

Curriculum refinement and Internal socialization	20
Planned Future Events	24
Professional Training Course: Data Science	24
Post-graduate open house for prospective year-2021 students	24
Universitas Syiah Kuala (UNSYIAH), Indonesia	25
Organized Events	25
Info Day 1 DS&AI UNSYIAH	25
Info Day 2 DS&AI: Webinar on Artificial Intelligence Innovation during COVID-19 Pandemic	27
Planned Future Events	29
Info Day 3 DS&AI: The 3rd International Conference on Electrical Engineering and Informatics (ICELTICs) 2020	29
Info Day 4 DS&AI	30
University of Peradeniya (UOP), Sri Lanka	31
Organized Events	31
Meeting with the Industry partner Axiata Digital Labs (pvt) Ltd	31
Focus Group Discussion DS&AI	31
Planned Future Events	32
Info Day on Data Science and Artificial Intelligence	32
Advertising through the web, posters, and flyers	33
Calling applications for the programme	33
Aptitude tests for Student Intake	33
University of Sri Jayewardenepura (USJP), Sri Lanka	33
Organized Events	33
Curriculum development workshop	33
Promote the DS&AI Master program on the websites	33
Planned Future Events	35
Info Day	35
Conclusion	35
ANNEX: Participant lists	36

Abstract

This report summarizes the DS&AI Info Days and public relations (PR) events that have been organized by each partner in Asia to promote the developed DS&AI curriculum and the professional training courses. However, due to the COVID-19 pandemic, the lockdown and the physical distancing measures, certain pre-planned Info Days events could not be arranged and have been postponed to future dates. For HEIs in Thailand, AIT has organized 3 events including the educational expo in Bangkok, the roadshow in Yangon and Nepal whereas the DS&AI Info Days events will be held in October 2020. KKU has organized 2 events (onsite and live events): the virtual forum on AI for healthcare, and the free online training courses in data engineering and data science. There are 4 future events to be held during September to December 2020. WU has planned to organize 3 Info Days events during October and November 2020. In Indonesia, ITB has conducted 4 events to promote the developed Master's program and professional courses. Two future events are also planned accordingly. Besides, USU has conducted 2 Info Days and several activities to promote the DS&AI Master's program. During December 2020 to January 2021, USU planned to organize 2 events including open registration for student intake. UNSYIAH has carried out 2 Info Day events by virtual meetings to attract students for the DS&AI Master's program. In addition, UNSYIAH will conduct 2 Info Day events during September and October 2020. In Sri Lanka, UoP has already conducted 2 activities which are focus group discussions and the open day for prospective students and industry. After the programme is approved officially, 4 planned events to promote the Master's program and to recruit the first batch of Master's Degree students will be held during September 2020 to January 2021. USJP has submitted the developed curricular for the approval and has already organized 2 events to promote the program including the curriculum development with industry professionals. In October 2020, USJP planned to conduct the Info Day event with various data science companies.

Objectives of DS&AI Info Day Events

DS&AI Info Day is an event to be organized by each Asian HEI which aims at promoting the developed curricula and the professional training courses to relevant target groups.

Specifically, the event has the following primary objectives:

1. To attract prospective students to enroll into the developed DS&AI Master's curriculum,
2. To promote the developed training courses to companies and organizations from all relevant sectors, and
3. To register companies/organizations for the internship program.

Having the above objectives in mind, all Asian partners in Indonesia, Sri Lanka and Thailand have organized and planned their Info Days events accordingly. This report summarizes such organized events and plans.

Organized Events and Planned Future Events

Asian Institute of Technology (AIT), Thailand

At AIT, we have organized several events, both in Thailand and in the nearby countries, to recruit students to the developed Master's curriculum. Summary of the organized events follow. However, due to COVID-19 pandemic, DS&AI Info Day was postponed.

Organized Events

1. OCSC International Education Expo 2019

Dates: 2-3 November 2019

Venue: The Royal Paragon Hall, 5th floor, Siam Paragon, Bangkok

Participants:

Prospective Students: During the two days exhibition, 118 students from different universities visited the booth and were interested to study at AIT. According to the result, there were many fields of study offered at AIT, the most popular courses which students interested in the area of Data Science and AI, Environmental Engineering and MBA.

Companies/Organizations: Office of the Civil Service Commission (OCSC)

Summary of Event:

OCSC International Education Expo is the only premier educational event in Thailand that allows visitors including students and parents to meet with trusted and accredited educational and tertiary institutions. The Expo invited accredited educational institutions around the globe to present their programmes for secondary and higher education, as well as language courses for students.

The objective of this event was to guide students to plan their education towards their future career and help to highlight the institution courses which could help enhancing students' personal and professional development and employability. Visitors would be able to meet with representatives from schools, colleges,

universities and institutions around the world to ask for the best course that suit to their needs.

The event took place for its 16th edition, on 2 and 3 November 2019 (Saturday and Sunday) at the Royal Paragon Hall, 5th floor, Siam Paragon, Bangkok.

In 2019, the event attracted 21,915 visitors. There were total of 375 educational institutions from 27 countries, from Australia, Canada, China, Chinese Taipei, Czech Republic, EU, France, Germany, Hong Kong, Hungary, India, Ireland, Italy, Japan, Macao, Malaysia, New Zealand, Philippines, Poland, Singapore, South Korea, Sweden, Switzerland, Thailand, UK and USA participated in the event, with the largest number of institutes/universities from United Kingdom.



2. AIT Roadshow -Yangon

Dates: 19-20 January 2020

Venue: Myanmar Ballroom, Sule Shangri-La, Yangon

Participants:

Prospective Students: A total of 254 students attending the event.

Companies/Organizations: [who and how many]

Summary of Event: We had 447 students registered online, while a number of students 254 students attended the event. Prof. Matthew Dailey gave a talk about the programs in the School of Engineering and Technology, including Data Science and Artificial Intelligence. The students actively participated in the question and answer session after the program.





3. AIT Roadshow - Nepal

Dates: 25 January 2020

Venue: Aloft Hotel, Thamel, Kathmandu, Nepal

Participants:

- Prospective Students: Total registered online 198, with 88 students attended in the event.
- Companies/Organizations: AIT Alumni Nepal Chapter

Summary of Event: The event started at 12.30 pm. by introduction of each school Deans (School of Engineering and Technology, School of Environment, Resources and Development and School of Management), we had interaction with students in groups separated by schools. Data Science and Artificial Intelligence brochure was distributed in the event.







Asian Institute of Technology



DATA SCIENCE AND ARTIFICIAL INTELLIGENCE

DEPARTMENT OF INFORMATION AND
COMMUNICATION TECHNOLOGIES
DEPARTMENT OF INDUSTRIAL SYSTEMS
ENGINEERING

ABOUT THE PROGRAM

Data Science (DS) is concerned with extraction of useful knowledge from data sets. It is closely related to the fields of computer science, mathematics, and statistics. It is a relatively new term for a broad set of skills spanning the more established fields of machine learning, data mining, databases, and visualization, along with their applications in various fields. In 2012, Harvard Business Review called data science "The Sexiest Job of the 21st Century".

Artificial Intelligence (AI) is the broad field conceived in 1956 as the automation or simulation of human intelligence. AI has two primary "levels". The first level, "narrow AI", concerns perception, statistical inference, and action, drawing on data science, sensors, and robotics. The second level, sometimes called "artificial general intelligence (AGI)", is concerned with more complex or flexible reasoning and decision making in less constrained domains.

The **AIT Masters in DS&AI** was designed in partnership with the Erasmus+ DS&AI consortium, a group of 15 European and Asian universities and companies with the mission of bringing European-standard advanced education to Asia. At AIT, we will prepare you to understand and execute projects using state-of-the-art technology at both levels.

SCHOOL OF ENGINEERING AND TECHNOLOGY

PROGRAM STRUCTURE

Core courses

- Data Modeling and Management
- Machine Learning
- Business Intelligence and Analytics
- Computer Programming for Data Science and Artificial Intelligence
- Artificial Intelligence: Natural Language Understanding

Elective course (choose two)

- Artificial Intelligence: Knowledge Representation and Reasoning
- Computer Vision
- Artificial Intelligence: Problem Solving and Planning
- HCI and Information Visualization
- Recent Trends in Machine Learning
- Mathematical Optimization and Decision Analysis
- Software Development and Project Management







PREFERRED BACKGROUND

To study DS&AI, students should come from one of the following backgrounds:

- Computer Science / Computer Engineering / ICT.
- Engineering background with work experience, mathematical skills, and programming skills.
- Diverse backgrounds such as business, finance, or other non-engineering fields. Candidates must take a foundation course in calculus, discrete mathematics, linear algebra, and basic computer programming.



DS&AI

The AIT Master's in DS&AI was designed in partnership with the ERASMUS+ DS&AI consortium, a group of 15 European and Asian universities and companies with the mission of bringing European-standard advanced education to Asia.



Co-funded by the
Erasmus+ Programme
of the European Union






Data Science and AI

It has already begun. In the next 10 years, data science and AI will touch nearly every aspect of human endeavor, transforming the way we live and work. In the longer term, Artificial General Intelligence will likely emerge as one of the most disruptive and productive technologies humankind has ever seen.

Are you ready for the age of data science and AI? AIT is ready to help you get ahead of current technology and prepare for the big changes that are coming.



Contact Us

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Planned Future Events

Planned future events to further promote the developed Master's curriculum and the professional training courses to relevant target groups are listed below.

1. AIT DS&AI Info Day

Date: October 2020

Venue: Webinar and on-site at AIT

Target Participants: Prospective students, IT professionals and IT companies

Summary of Event: To promote the Master's program and the training courses in DS&AI at AIT

Khon Kaen University (KKU), Thailand

At Khon Kaen University, a curriculum is not allowed to be promoted until it is officially accredited. In case of the master program in DS&AI, the accreditation process at KKU was completed on July 1st, 2020; which causes a delay in organizing the DS&AI Info Day and other forms of dissemination. Moreover, KKU had to cancel all of the events abroad due to the pandemic situation. However, there are hybrid events, organized both online and on-site, that were already organized and planned to offer, in order to substitute the cancelled events as followed.

Organized Event

1. Virtual Forum on AI for Healthcare in Post COVID-19 era (ai.kku.ac.th)

Dates: July 23-24, 2020

Venue: On site at the KKU's main library and online via Facebook live

Participants:

- On site = 122, Online webinar = 773 (3.2k views on July 23rd and 8.7k views on July 24)
- Prospective Students: Current undergraduate and graduate students including international students = 50
- Companies/Organizations: AIS, IBM, Point IT consulting, Technology Infrastructure Co., Ltd., and Deetorjaitravel

Summary of Event: The virtual forum was conducted both on-site and online and consisted of webinars, panel discussions, workshops, and on-site AI for healthcare exhibition. We were invited to set up a booth to promote the DS&AI curriculum at the exhibition located at KKU's library. 100 leaflets and pamphlets were distributed at the event. The program was also mentioned during the webinar and people who were interested in the program can ask more questions about the program in the Facebook comment during the live event or through personal messages with the main contact person (Asst.Prof.Dr. Chitsutha Soomlek). For more information about the virtual forum, please visit <https://ai.kku.ac.th>. The digital version of leaflet and pamphlet are also distributed via Facebook pages and feeds.



DEPARTMENT OF COMPUTER SCIENCE, KHON KAEN UNIVERSITY

ERASMUS+ CBHE PROJECT

Master Program

Data Science and Artificial Intelligence (DS&AI)

Co-funded by the
Erasmus+ Programme
of the European Union

In a few years, DS&AI will become a part of every aspect of human endeavour and will transform the way we live and work. In a long run, DS&AI will likely emerge as one of the most disruptive and productive technologies humankind has ever seen. In order to help Thailand prepares for the big changes, ERASMUS+ DS&AI consortium from European and Asian partners develop a master's program in DS&AI that is truly international in scope. The master program in DS&AI is an intensive full-time master degree program aiming to give graduate students a strong base in the computational and mathematical foundations of data science and artificial intelligence as well as to give many opportunities to explore and specialise in various application areas together with industrial partners. The master program is supported by Erasmus+ CBHE.

The KKU master program's in DS&AI was designed in partnership with the ERASMUS+ DS&AI consortium, a group of 15 European and Asian universities and companies with the mission of bringing European-standard advanced education to Asia. The project strengthens European cooperation in transdisciplinary education and internationalisation, which will bring the strong scientific knowledge in DS&AI to the higher education systems. Master's curriculum in DS&AI at KKU will start accepting application on August 1st, 2020 through <https://gs.kku.ac.th/home/index.php/main-english.html>

1
INTERNATIONAL PROGRAM SUPPORTED BY ERASMUS+ CBHE

2
COMMON CORE COURSES WITH INTERNATIONAL CONSORTIUM

3
INNOVATIVE SPECIAL-CRAFTED ELECTIVE COURSES

It's your chance to work with companies for research and innovation in real-world scenario

Support student mobility and credit mobility among DS&AI consortium in Europe and Asia

Get access to the virtual learning environment (VLE) for lifelong learning support

MASTER PROGRAM IN DATA SCIENCE AND ARTIFICIAL INTELLIGENCE

KHON KAEN UNIVERSITY

Shape your future with us @CS, KKU

2-years program, 38 Credits

Plan A.1 Thesis only

Plan A.2 Thesis-based

Plan B Coursework-based (Independent study)

Core Courses

- Data modeling and management
- Machine learning
- Artificial intelligence
- Computer programming for data science and artificial intelligence
- Business intelligence and analytics

Elective Courses

Recent trends in machine learning, Nature-inspired computing, Multicriteria optimization and decision analysis, Computation linguistics, Social network analysis, Knowledge representation, Computer vision, Human computer interaction and information visualisation, Distributed systems, Software development and project management for data science and artificial intelligence, Spatial temporal data analysis

Students can get access to our high performance GPU server, Data Science Lab, and much more.

Associated Partners:

INTERESTED?

Contact person: Asst.Prof. Chitsutha Soomlek (chitsutha@kku.ac.th)

Department of Computer Science, Faculty of Science, Khon Kaen University

123 Mittapharp Rd., NaiMuang, Muang, Khon Kaen, 40002

Tel: 089-710-2651, 089-710-2645

Apply Now!!

2. Future Skill New Career Thailand

[Non-degree Course in Digital Data Industry (Data Engineering and Data Science) by KKU]

Dates: August 1, 2020 - September 19, 2020

Venue: Online

Participants: 32 people

Summary of Event: A series of free online training courses in Data Engineering and Data Science. The University's staff, who are responsible for the training, informed the participants about the Master's program in DS&AI, during the training period.

Planned Future Events

1. Memorandum of Understanding (MOU) signing ceremony between KKU and AKSORN Education

Date: September 3, 2020

Venue: Faculty of Engineering, KKU

Target Participants:

- High school teachers who are teaching in the field of computational thinking and computing = 20
- Undergraduate students = 30
- University staff = 15
- Companies = 5

Summary of Event: We are invited to set up a booth to advertise the DS&AI curriculum at the exhibition which is a part of the MOU signing ceremony. Companies, high school teachers, and reporters will also be at the ceremony. The event will allow us to promote the project and the curriculum and may attract prospective students.

2. InfoDay

Date: Late September 2020

Venue: On-site at the Department of Computer Science, KKU and online

Target Participants: prospective students and people in software industries = 100

Summary of Event: Webinar

- Talk: Data Science and AI Technologies used at KKU (Vice President for Digital, KKU - to be confirmed)
- Talk by expert from industrial sector
- Master program in DS&AI

3. Super AI and AI for all by KKU Science Park

Date: November-December 2020

Venue: On-site at KKU Science Park and online

Target Participants: prospective students and people in software industries = 100

Summary of Event: Super AI and AI for all is a combination of training and competition in AI hosted by different regions in the country. For the North-eastern

part of Thailand, KKU Science Park is the host of the event and they allowed us to advertise the DS&AI curriculum by distributing leaflets and pamphlets at the event.

4. The 16th Thailand Olympiad in Informatics 2020 at KKU

Date: December 11-14, 2020

Venue: On-site at the Department of Computer Science, KKU

Target Participants: High school teachers and university staff = 100

Summary of Event: KKU will host the 16th Thailand Olympiad in Informatics 2020 (TOI 2020) at the Department of Computer Science, which allow us to advertise the master program in DS&AI during the event.

Walailak University (WU), Thailand

Due to the change of the quality board of WU in April 2020, the accreditation process of the DS&AI program at WU was delayed till July 2020. Consequently, the new WU team cannot promote the DS&AI program until it is officially accredited by the Office of the Higher Education Commission, Ministry of Higher Education, Science, Research and Innovation. The accreditation process is expected to be completed in September 2020.

Organized Events

n/a

Planned Future Events

1. Info Day 1

Date: Beginning of October 2020

Venue: School of Science, Walailak University

Target Participants: Prospective students and people in healthcare and medical industries = 100

Summary of Event: Webinar

- Talk: Data Science and AI for healthcare and medical industries
- Master's program in DS&AI

2. Info Day 2

Date: End of October 2020

Venue: School of Science, Walailak University

Target Participants: prospective students and high school teachers = 100

Summary of Event: Webinar

- Talk: Data Science and AI for E-Learning
- Master program in DS&AI

3. Info Day 3

Date: Beginning of November 2020

Venue: School of Science, Walailak University

Target Participants: prospective students and people in finance and banking = 100

Summary of Event: Webinar

- Talk: Data Science and AI for finance and banking
- Master program in DS&AI

Universitas Sumatera Utara (USU), Indonesia

Universitas Sumatera Utara conducted some activities related for Info Days for DS&AI Master Program. The first deliverable activity was held in December 3rd, 2019 where representatives from Industry were invited to introduce DS&AI Master Program. The activity aims to introduce DS&AI Master Program to the industries so that we could open for coordination for the internship program later. The discussion went well and there are some advices were given from the academics side for the requirements process to open the DS&AI master program. The second activity was held virtually because of the Covid-19. It was the 2020 International Conference on DATABIA (Data Science, Artificial Intelligence, and Business Analytics). DATABIA 2020 was not only inviting keynote speakers but also introduce the establishment of DS&AI Master Program in Universitas Sumatera Utara. Apart from these two activities, we are also conducting several activities in disseminating the Master program, including Flyers, Brochures and Posters as well as videos and web pages. The future event will be registration for student intake during the months of December 2020 and January 2021.

Organized Events

1. Focus Group Discussion Dissemination DS&AI

Date: December 3, 2019

Venue: Hotel Adimulia Medan, North Sumatera, Indonesia

Target Participants: Focus Group Discussion Dissemination DS&AI were attended by:

- The Chairman of USU Academic Senate,
- Expert Staff to USU Chancellor,
- Chairman and Secretary of USU Research, Development, Community Service, and Innovation Commission,
- The Dean Faculty of Computer Science and Information Technology
- Deputy Director of BPJS Ketenagakerjaan
- Head of Information Technology Division PT. Bank Sumut
- Manager of PT. Telkom Indonesia
- Head of Business Transformation Division PT. Perkebunan Nusantara IV
- Chairman and Secretary of USU Education Commission
- Chairman and Secretary of USU Academic Quality Assurance and Supervision Commission
- Chairman and Secretary of USU Academic, Planning and Budget Institutional Commission
- Chairman and Secretary of USU Education Service and Development Unit
- Representative from the Industries
- Prospective students

Summary of the Event:

The aim of Focus Group Discussion is to introduce the DS&AI Master Program to the industries, researchers, academics staffs, and prospective students. During the FGD, Prof. Opim Salim Sitompul as the Manager and Dr. Erna Budhiarti Nababan as the Researcher for DS&AI project were explaining about DS&AI Master Program such as the aims, objectives, and preparation activity to open the new master program in Universitas Sumatera Utara. The participants were asked to give their suggestion so that the new master program could be executed successfully. The participants were also very enthusiastic to know more about the DS&AI Programs and they hope that the master program could be executed successfully in time.

Photos:



2. The 2020 International Conference DATABIA

Date: July 16-17, 2020

Venue: Webinar (Online)

Target Participants: Around 120 Prospective students and researchers

Summary of Event:

The 2020 International Conference DATABIA (DATA SCIENCE, ARTIFICIAL INTELLIGENCE, AND BUSINESS ANALYTICS) were held online in 16th – 17th 2020. The organizing committee invited keynote speakers from Industry, Researcher, and Prof. Dr. Marcello from Leiden University. During this conference, Dr. Erna Budhiarti Nababan introduced the establishment of DS&AI Master Program and stated that The DS&AI Master Program is expected to be open in this new academic year in USU. There were 3 keynote speech sessions presented by keynote speakers. The keynote speech session went well especially when Prof. Dr. Marcello explained about the DS&AI Master Program. Many of the participants praised the committee for organizing the conference and enthusiast to know more about the new master program. There were some participants asked about the possibility to join the program and when the master program to be open.

Photos:





3. Dissemination of Flyers, Brochures and Posters

Date: December 1, 2019

Venue: Faculty of Computer Science and Information Technology USU and BPA Building 2nd floor USU

Target Participants: Public

Summary of Event:

We place 4 standing banners at the Faculty of Computer Science and Information Technology and Main Administration Building where publics could see those standing banners about DS&AI Master Program.

Photos:



4. Dissemination of Video

Date: Published on December 16, 2019

Venue: Youtube

Target Participants: Public

Summary of Event:

Kabar Kita which is a program under the Faculty of Computer Science and Information Technology shared an interviewed video with the Dean of Faculty of Computer Science and Information Technology Universitas Sumatera Utara, Prof. Dr. Opim Salim Sitompul, M.Sc. In the video, Prof. Opim was talking about the plan for opening a new master degree program called DS&AI Master Program.

Photos:



5. Publications

Date: on December

Venue: Website

Target Participants: Public

Summary of the Event:

Until this moment, there were three publications on the website and 4 social media posts regarding the activities for DS&AI Master Program in Universitas Sumatera Utara. The link for all of the posts can be seen on the dissemination report.

Planned Future Events

1. Webinar on Data Science and Artificial Intelligence

Date: Second Week of October 2020

Venue: On-line at the Faculty of Computer Science and Information Technology, Universitas Sumatera Utara

Target Participants: Prospective students all over Indonesia

Summary of the Event: This event is a further introduction to the new Master Program that will be open in the second half of Academic Year 2020/2021.

2. Open Registration for Student Intake

Date: December 2020 through January 2021

Venue: On-site at the Graduate School of Universitas Sumatera Utara

Target Participants: Prospective students all over Indonesia

Summary of the Event: The student intake will be conducted during the months of December 2020 until January 2021. This intake is for the second half of Academic Year 2020/2021.

Institut Teknologi Bandung (ITB), Indonesia

Institut Teknologi Bandung (ITB) under the collaboration of three parties: CoE AI-VLB, PIKKC, and Eduplatform ITB conducted professional training course for executive education related to DS&AI Project. This training course is held from 21 July 2020 – 25 August 2020 with the participants among the division head in Agency for the Assessment and Application of Technology (BPPT), Indonesia. Another activity related to socialization of DS&AI project was held in August 7th, 2020 where prospective students were introduced with DS&AI Master Program.

Apart from these two activities, we were also socializing the DS&AI Master Program among the academic staff under School of Electrical Engineering and Informatics (SEEI), ITB. The socialization of DS&AI master program is more to introducing the new curriculum and the effect to the students and existing courses.

Organized Events

1. Professional training courses: AI for Executive Education

Date: July 21, 2020 to August 25, 2020

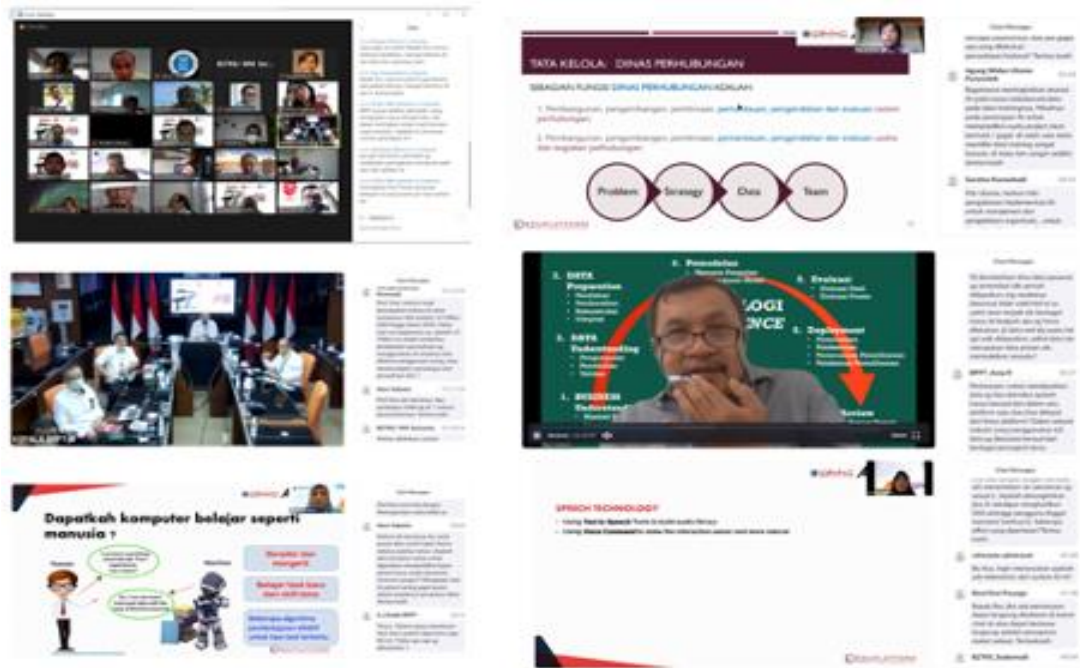
Venue: Online

Target Participants:

- Centre of Excellence- Artificial Intelligence for Computer Vision, Natural Language Processing and Big Data Analytics (CoE AI-VLB)
- Pusat Inovasi Kota dan Komunitas Cerdas (PIKKC)
- Eduplatform ITB.

Summary of Event: Institut Teknologi Bandung (ITB) under the collaboration of 3 parties conducted professional training course for executive education related to DS&AI Project. This training course is held with the participants among the division head in Agency for the Assessment and Application of Technology (BPPT), Indonesia. The training course title is *AI for Executive Education* where we from the academician trying to give an understanding and concept of digital technology in government-based agency. Since the participants are the agency for the assessment and Application of Technology Indonesia, we wish that by this training the agency can absorb and apply the gained knowledge from the professional training course.

This training consists of online discussion, group task, individual task, video presentation which all are done online. Some screenshot of this training online can be found below.



2. Info Day

Venue: Online

Target Participants: School of Electrical Engineering and Informatics (SEEI)-ITB

Summary of Event: The info-day for prospective students in magister informatics was conducted in collaboration with the office of magister program in Informatics, SEEI-ITB.

3. Dissemination of DS&AI options for magister students

Date: April to August 7, 2020

Target Participants: The intake students of magister study program

Summary of Event:

The intake of magister study program in ITB is once per year, July in every year. All the candidates must pass the entrance examinations. The entrance examinations are conducted in the period of April – July of the same year. During the entrance examinations, the prospective students needs to decide the option or their preferences of specialization. In year 2020, study program of magister in Informatics opens for specialization: Intelligence Business, Intelligence System, Information System, and Software Engineering. The DSAI program has been disseminated in front of the magister students, those students who choose Intelligence Business and Intelligence System interested to pursue DSAI program. This dissemination was done on August 7th, 2020.

4. Curriculum refinement and Internal socialization

ITB have two magister program options – Magister of Informatics: Intelligence Business and Magister of Informatics: Intelligence System, which are quite similar with DS&AI program. Because of that, the existing curriculum needs to be refined to

accommodate the new DSAI program. Several formal meetings in regards with DS&AI program have been conducted.

Date: Various from December 2019 to August 2020

Target Participants:

- Team of Curriculum of magister of Informatics study program
- Academic staff of magister of informatics
- Selection team and prospective students
- Students with problems
- Students composition of year 2020

Summary of Event:

The main purpose of these events was to accommodate the DSAI curriculum into the existing curriculum. Team of Curriculum of study program of Magister in Informatics were mapped the DSAI curriculum into the existing curriculum 2013 and develop new curriculum of 2019. The new curriculum has been disseminated to the respective academic staff in magister of informatics, School of Electrical Engineering and Informatics. In general, all the participants were agreed with the new curriculum, and they will adjust their lecture accordingly. July 2020 was the first intake of new magister of informatics students under this new curriculum. Details of the meeting and the agenda are shown in the table below.

No.	Date	Participants		Agenda	
			Students-related	Options-related	Curriculum-related
1	09-Dec-19	· Team of Curriculum of magister of Informatics study program	· scheduling entrance test · students with problems	· DS-AI new option	year-2018/2019 courses evaluation
2	29-Jan-20	· Team of Curriculum of magister of Informatics study program	· students with problems		· refinement of curriculum 2013 to allocate DSAI curriculum (based on ITB-2019 regulation)
3	12-Feb-20	· Team of Curriculum of magister of Informatics study program	students with problems		· refinement of curriculum 2013 to allocate DSAI curriculum (Overlapping courses)

4	28-Feb-20	· Team of Curriculum of magister of Informatics study program			· refinement of curriculum 2013 to allocate DSAI curriculum (students per options' competencies)
5	13-Mar-20	· Team of Curriculum of magister of Informatics study program		· Intelligence Business/Data Science and Engineering · Computer System Security · Cloud Computing Intelligence · System/Artificial Intelligence	· refinement of curriculum 2013 to allocate DSAI curriculum (breakdown curriculum per option) · refinement of curriculum 2013 to allocate DSAI curriculum (evaluation of course-syllabi per option)
6	27-Mar-20	· Team of Curriculum of magister of Informatics study program	· students with problems		· refinement of curriculum 2013 to allocate DSAI curriculum (evaluation of course-syllabi per option)
7	07-Apr-20	· selection team and prospective students	· entrance test batch-1		
8	30-Apr-20	· Academic staff of magister of informatics			· proposal new curriculum 2019

9	08-May-20	· Team of Curriculum for magister of Informatics study program			· refinement of new curriculum 2019
10	08-Jun-20	· selection team and prospective students	· entrance test batch-2		
11	08-Jul-20	· selection team and prospective students	· entrance test batch-3		
12	16-Jul-20	· Team of Curriculum for magister of Informatics study program	· students composition of year 2020 (batch-1, batch-2, batch-3)	· students composition of year 2020	· refinement of new curriculum 2019
13	28-Jul-20	· selection team and prospective students	· entrance test batch-4		
14	07-Aug-20	· Team of Curriculum for magister of Informatics study program · students of 2020	· students composition of year 2020 (magister of informatics) · magister of informatics: total 57 accepted students · socialization of curriculum 2019 (incl. DS-AI option)	· Intelligence Business/Data Science and Engineering · Intelligence System/Artificial · Intelligence Information System · Software Engineering	

Planned Future Events

1. Professional Training Course: Data Science

Date: October to December 2020

Target Participants: 150 fresh-graduate students throughout Indonesia

Summary of Event:

Under the instruction of Ministry of Communication and Information Technology Indonesia, ITB has been asked to conduct several professional training courses in recently booming knowledge, including Data Science. This professional training course is built in collaboration with IBM, so the evaluation will comply with the need of industry. This professional training course in Data Science is open for all fresh-graduate students throughout Indonesia, and ITB will only accept 150 of them who passed the selection test of this professional training course.

2. Post-graduate open house for prospective year-2021 students

Date: February 2021

Target Participants: n/a

Summary of Event:

Every year ITB has formal open house to promote the whole postgraduate study programs. This open house is usually held in February for prospective students of year-2021. We plan to disseminate the DSAI program under the new name: Magister of Informatics: Data Science and Engineering and Magister of Informatics: Artificial Intelligence. These two options are currently still using the name of Magister of Informatics: Intelligence Business and Magister of Informatics: Intelligence System. We decided that the DSAI program can be taken by the students through two possible options: option of Data Science Engineering and option of Artificial Intelligence.

Universitas Syiah Kuala (UNSYIAH), Indonesia

Universitas Syiah Kuala (UNSYIAH) is one of the universities involved DS&AI program coordinated by the Asian Institute of Technology (AIT) Thailand. Establishing a Master Program of DS&AI have been approved by Rector, Faculty, and University Senates. The program is expected to have its first enrolment in early 2021. To attract students for this master program, UNSYIAH has introduced the program for graduate students and also for stakeholders and publics in the INFO DAYS program. Due to pandemic Covid-19, all activities were carried out by virtual meetings. There were two events that have been conducted including Focus Group Discussion with stakeholders. The first even was Industrial Revolution 4.0 Synopsis: This webinar will give a general introduction to the Internet of Things (IoT) and its relevance in the area of Industrial Revolution 4.0 as well as its relations to other related fields specifically: Data Science, Machine Learning, and Artificial Intelligence. The webinar will also introduce a new degree program in Unsyiah take focuses on Data Science and Artificial Intelligence (DS&AI). The second event was Webinar on Artificial Intelligence Innovation during COVID-19 Pandemic was conducted by Universitas Syiah Kuala and BPPT (the Agency for the Assessment and Application of Technology. BPPT is an Indonesian government research institute, which has the tasks of carrying out government duties in the field of assessment and application of technology and innovation. On September 3, 2020, the DS&AI team at Unsyiah will conduct another INFO DAYS and involved many students to know more about DS/AI master program. The speakers for this seminar are Prof. Dr. Taufik Fuadi Abidin, S.Si., M.Tech. and Rahmad Dawood, S.Kom, M.Sc., IPM. We hope this INFO DAYS seminar will be attended by many potential students.

Organized Events

1. Info Day 1 DS&AI UNSYIAH

Date: July 27, 2020

Venue: Virtual (Zoom Meeting)

Target Participants: Info Day 1 DS&AI UNSYIAH were attended about 75 participants as follow:

- The Head of Educational Improvement and Quality Assurance Council UNSYIAH
- Representative from the Industries relating to IoT and DS/AI
- Prospective students

Summary of Event:

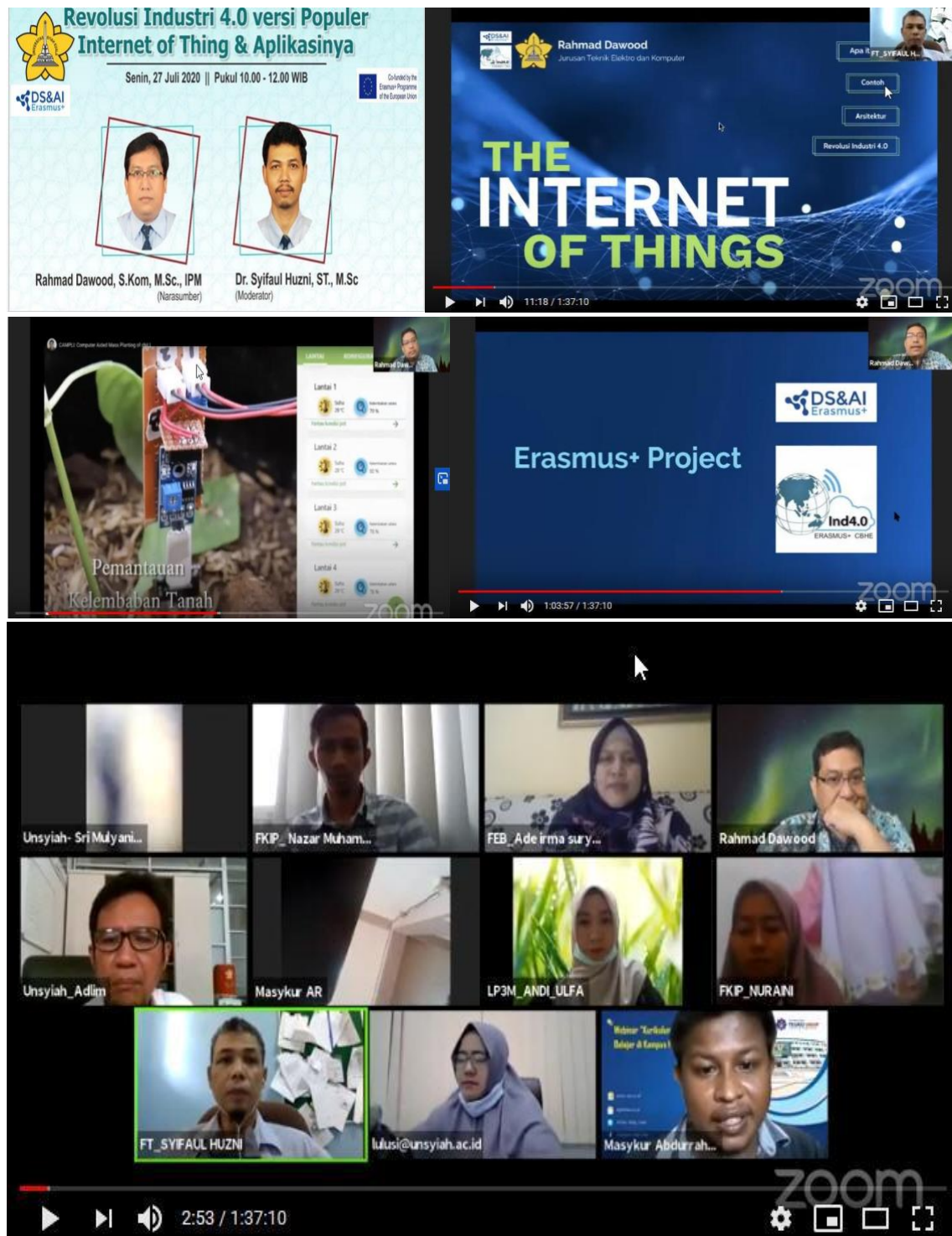
The first info day was taken place on 27 July 2020 by a virtual system. The speaker for this activity was Rahmad Dawood, S.Kom, M.Sc., IPM (UNSYIAH DS&AI team) and Dr. Syaiful Huzni, ST., M.Sc as a moderator.

This webinar delivers a general introduction to the Internet of Things (IoT) and its relevance in the area of Industrial Revolution 4.0 as well as its relations to other related fields specifically: Data Science, Machine Learning, and Artificial Intelligence. This introduction also will provide several examples of current IoT usage in numerous industries. As well as review a system architecture for a typical IoT system. The webinar will also introduce a new degree program in Unsyiah take focuses on Data Science and Artificial Intelligence (DS&AI).

Participants for the webinar came from all over Aceh and North Sumatera. Questions were around the potential use of IoT and Machine Learning to solve various problems in SmartCity and in environmental monitoring. Several participants also inquire about the schedule for the opening of the new DS&AI program.

Link for activity: <https://youtu.be/FbTh9ep20c4>

Photos:



2. Info Day 2 DS&AI: Webinar on Artificial Intelligence Innovation during COVID-19 Pandemic

Date: June 22, 2020

Venue: Webinar (Online)

Target Participants: Around 200 prospective students, professors, and researchers

Summary of Event:

Webinar on Artificial Intelligence Innovation during COVID-19 Pandemic was conducted by Universitas Syiah Kuala and BPPT (the Agency for the Assessment and Application of Technology). BPPT is an Indonesian government research institute, which has the tasks of carrying out government duties in the field of assessment and application of technology and innovation. BPPT main office is located in Jakarta. The speakers of the events are the Rector of UNSYIAH, the head of BPPT, dan the CEO of Solusi247, an IT private company, sited in Central Jakarta. The main topic of the webinar is the AI Innovation for handling COVID-19. During the talk, the Rector of Unsyiah announced the plan for Unsyiah to establish a new Master Program in Data Science and Artificial Intelligence. The program is expected to have its first enrolment in early 2021.



KULIAH TERBUKA DAN DISKUSI DARING

WEBINAR

Kecerdasan Artifisial dan Inovasi Teknologi di Masa Pandemi

Narasumber

- Prof. Dr. Ir. Samsul Rizal, M.Eng**
Rektor Universitas Syiah Kuala
Penerapan Kecerdasan Artifisial di Berbagai Bidang dan Tantangan Lulusan Perguruan Tinggi
- Dr. Ir. Hammam Riza, M.Sc. IPU**
Kepala Badan Pengkajian dan Penerapan Teknologi (BPPT)
Riset & Inovasi Teknologi dalam Penanganan Pandemi Covid-19 di Indonesia
- Ir. Beno K. Pradekso, M.Sc**
CEO SOLUSI247 dan LABS247
Jalan Berliku Implementasi Kecerdasan Artifisial yang Mandiri

Moderator

- Prof. Dr. Taufik Fuadi Abidin, S.Si, M.Tech**
Ketua Lembaga Penelitian dan Pengabdian Kepada Masyarakat (LPPM)
Universitas Syiah Kuala

Tanggal dan Waktu

Senin, 22 Juni 2020
09.15 sd 12.00 WIB

Pendaftaran
Scan untuk registrasi
<http://bit.ly/RegisterKTDS-AI>

Live Streaming
Scan untuk live streaming
<http://bit.ly/LiveStreamingKTDS-AI>

Fasilitas
E-Certificate

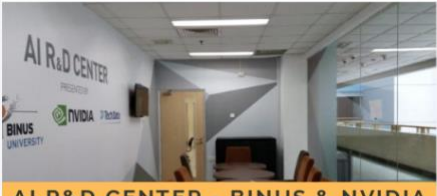
Narahubung: denny.s@mhs.unsyiah.ac.id | +62 822-1671-1220

DIDUKUNG OLEH:

- SATGAS COVID-19 UNSYIAH
- UPT TIK UNIVERSITAS SYIAH KUALA
- DS&AI
- DMIR Pusat Pengembangan dan Himpunan Inovasi

Part of the Rector's slides discussing about the establishment of the new Master Program in DS&AI i.e. the development of AI in some Indonesian universities and Unsyiah participation in developing curricula in Data Science and AI.

Pengembangan AI Universitas di Indonesia



AI R&D CENTER - BINUS & NVIDIA

Center for Artificial Intelligence










Universitas Syiah Kuala bersama konsorsium 11 universitas di Eropa dan Asia sedang menyiapkan Program S2 Data Science & Artificial Intelligence. ➔

INOVATIF - MANDIRI - TERKEMUKA

Unsyiah, USU, dan ITB bersama konsorsium kegiatan Erasmus+ menyusun dan mendiskusikan Kurikulum Program S2 Data Science & Artificial Intelligence di Leiden University pada bulan November 2019

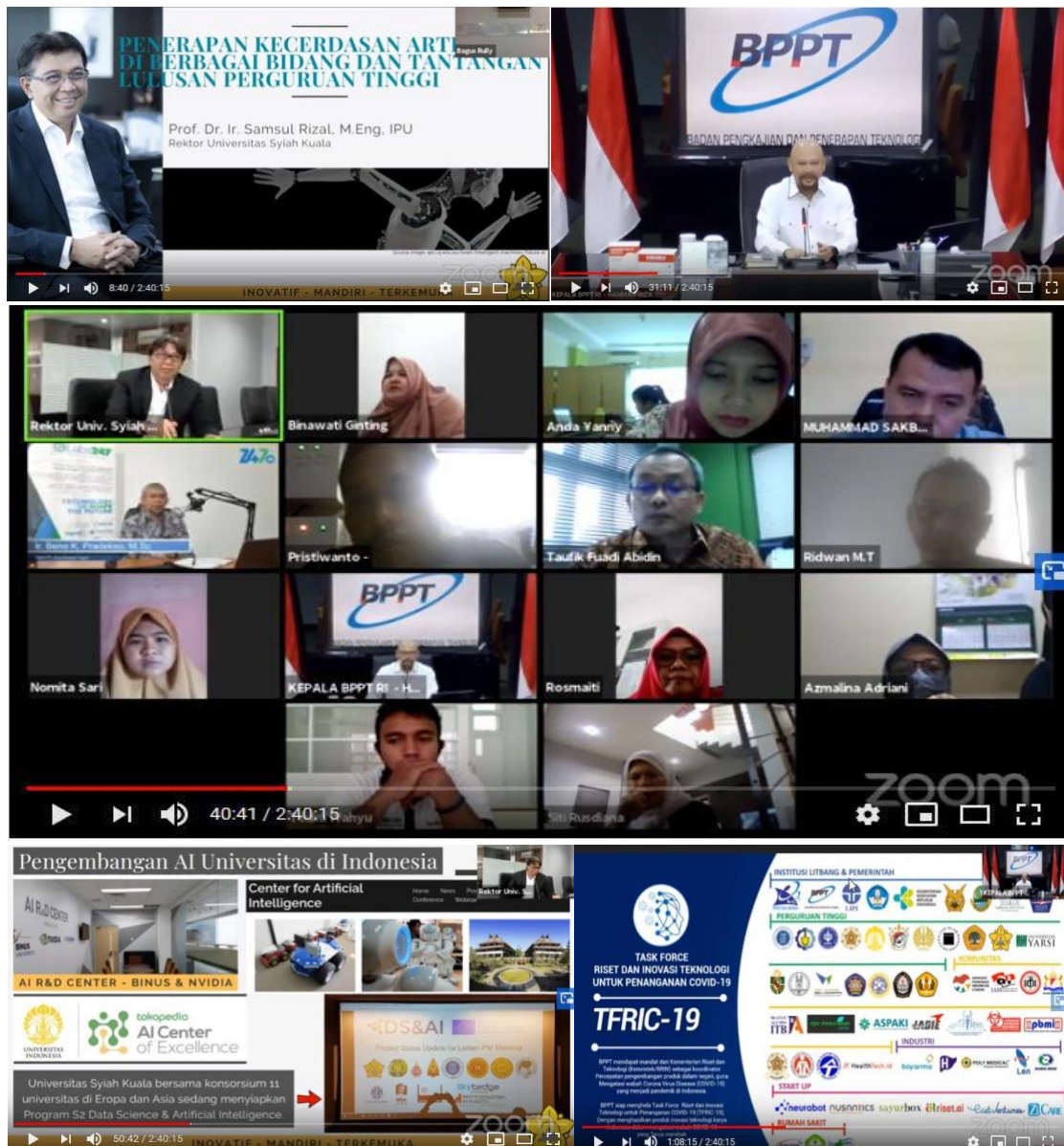


INOVATIF - MANDIRI - TERKEMUKA

Link for activity:

<https://www.youtube.com/watch?v=cejnYo4puLQ&feature=youtu.be>

Photos:



Planned Future Events

1. Info Day 3 DS&AI: The 3rd International Conference on Electrical Engineering and Informatics (ICELTICs) 2020

Date: October 27-28, 2020

Venue: Webinar (Online)

Target Participants: Around 70 prospective students and researchers

Summary of Event:

At the end of October 2020, the Department of Informatics will host the 3rd International Conference on Electrical Engineering and Informatics (ICELTICs). Due to the COVID-19 pandemic situation, the conference will be conducted virtually. ICELTICs is a conference that will be co-organized with idBigData Indonesia, the Association of Higher Education in Informatics and Computer Sciences (APTIKOM), and technically co-sponsored by the IEEE Indonesia Section. With the theme

Empowering Data Science and Artificial Intelligence for Enriching Smart Societies, ICELTICS will provide an excellent forum for knowledge sharing and research findings that are related to the research and innovations of data science and artificial intelligence for the latest technology development to enrich smart societies. Detail in www.iceltics.unsyiah.ac.id.

2. Info Day 4 DS&AI

Date: September 3, 2020

Venue: Virtual (Zoom Meeting)

Target Participants: Info Day 4 DS&AI UNSYIAH will be attended by 100 participants as follows:

- Researchers
- Representative from the Industries relating to DS&AI
- Prospective students

Summary of Event:

The forth info day will be taken place on 3 September 2020 also by virtual system. The speakers for this activity are Prof. Dr. Taufik Fuadi Abidin, S.Si., M.Tech and Rahmad Dawood, S.Kom, M.Sc., IPM (UNSYIAH DS/AI team). Prof. Dr. Ir. Samadi, M.Sc will be served as the moderator.

The aim of the forth info day is to Introduces the DS&AI Master Program to the researchers, academics staff, and prospective students. We will also introduce the DS&AI curricula that have already discussed by DS&AI consortium involving several universities in Europe and Asian. The intake of students and requirements for students to register in this master study program will be discussed also in this zoom meeting.



**PROJECT ERASMUS+
DATA SCIENCE/ARTIFICIAL INTELLIGENCE (DS/AI)
UNIVERSITAS SYIAH KUALA**

INFO DAYS

Moderator:
Prof. Dr. Ir. Samadi, M.Sc.
Program Manager DS/AI Unsyiah

Speakers:
Prof. Dr. Taufik Fuadi Abidin, S.Si., M.Tech
Coordinator DS/AI Unsyiah

Speakers:
Rahmad Dawood, S.Kom, M.Sc., IPM
Team DS/AI Unsyiah

zoom
Meeting ID : 974 7272 7910

FREE

DATE THURSDAY
3 SEPTEMBER 2020

TIME 10.00 - 12.00 WIB

DS&AI Erasmus+
Co-funded by the
Erasmus+ Programme
of the European Union

University of Peradeniya (UOP), Sri Lanka

The first deliverable activity was held on 2nd August 2019 where representatives from one Industry partner were invited to introduce DS&AI Master Program. The activity aimed to introduce DS&AI Master Program to the company so that their support could be obtained for the internship component of the programme. The discussion was carried out successfully with participation of 12 academic members and four industry partners.

The second activity was the focus group meeting (FGM) to discuss the expectations of the stakeholders from the DS&AI master's degree programme. The event was held on 10th August 2019 with several industry partners, representative prospective students and the academic staff members. Discussions were held on the proposed content of the programme, industry and student expectations, feasibility of the industrial training and the suggestions for the professional training programme.

Apart from these two activities, several activities to advertise the project and the master's programme are planned to be held during the months of September 2020 to January 2021.

Organized Events

1. Meeting with the Industry partner Axiata Digital Labs (pvt) Ltd

Date: August 2, 2019

Venue: Postgraduate Institute of Science, University of Peradeniya

Target Participants:

- Axiata Digital Labs (pvt) Ltd – Four members
- UoP – Dean, Faculty of Science, Director, Postgraduate Institute of Science
- 10 academic staff members from the Department of Statistics and Computer Science including Prof. P. Wijekoon (Coordinator UoP) and Dr. Amalka Pinidiyaarachchi (Management Board member)

Summary of Event: n/a

2. Focus Group Discussion DS&AI

Date: August 10, 2019

Venue: Oak Ray Hotel, Kandy

Target Participants: Focus Group Discussion DS&AI was attended as follows:

- The Dean Faculty of Science
- academic staff members from the Department of Statistics and Computer Science including Prof. P. Wijekoon (Coordinator UoP) and Dr. Amalka Pinidiyaarachchi (Management Board member)
- Representative from the Industries
- Prospective students

Summary of Event:

The aim of this focus group discussion was to identify needs and gaps that have to be addressed in the development of Master's degree programme in DS&AI in Sri Lanka. In particular, the following issues and questions were investigated:

- Identification of subject areas related to data science and AI that are most in need in Sri Lanka (and wider region)

- Identification of short term professional training courses in DS and AI for professionals/ students who wish to acquire the required standards in the related industries.
- Identification of a set of skills that the curriculum should develop and promote
- Teaching and learning processes that are appropriate for the curriculum (project-based learning, professional certifications, trainings, practical and industrial projects, workshops, internships, research, theses, etc.)
- Required resources, facilities, tools, as well as support that the universities should provide (what we lack or need)
- Any concerns and opinions regarding internships and job opportunities that the curriculum should provide

The discussion was carried out among participants from the three groups, namely academics, ICT industrial sector and students, and hence allowing us to obtain significant inputs in developing a balanced Master's degree programme.



Planned Future Events

1. Info Day on Data Science and Artificial Intelligence

Date: To be decided

Target Participants: Prospective students

Summary of Event: This event will gather the industry partners and the prospective students to advertise the programme and to give some insights to the students on the career perspectives.

2. Advertising through the web, posters, and flyers

Date: To be decided

Target Participants: To be decided

Summary of Event: Once the approval for offering the programme is obtained advertising the programme will be done through the web and posters, flyers.

3. Calling applications for the programme

Date: November 2020

Target Participants: To be decided

Summary of Event: To be decided

4. Aptitude tests for Student Intake

Date: Early January 2021

Target Participants: To be decided

Summary of Event: To be decided

University of Sri Jayewardenepura (USJP), Sri Lanka

University of Sri Jayewardenepura joined with the Erasmus+ DS&AI project in 2018. The initial phase of the project was dedicated to the development of the curriculum of the Master's program and accreditation process. Currently, the developed curricular was submitted to the University Senate for the approval. In parallel to the Master's program, University of Sri Jayewardenepura intends to conduct professional courses for the industry professionals. Industry professionals are our main stakeholders not only for the professional program but also as the providers of the internship of the DS&AI postgraduate students.

In the curriculum development workshop which was held on 3rd July 2019, the information regarding the professional courses was announced for the participants. At the time of the workshop five companies were approached to get their opinion about the Master's program and professional courses.

University of Sri Jayewardenepura was a participant for the Focus Group Discussion organized by the University of Peradeniya on 10th August 2019 where the main data science related companies were present.

Organized Events

1. Curriculum development workshop

Date: July 3, 2019

Target Participants: 5 companies

Summary of Event: The five companies were approached to get their opinion about the Master's program and professional courses.

2. Promote the DS&AI Master program on the websites

Date: n/a

Venue: The web sites of the Department of Statistics and Computer Science, USJP

Target Participants: n/a

Summary of Event:

After the study visit to Europe, an article regarding the DS&AI Master's program was uploaded to the web sites of the Department of Statistics and Computer Science. Information relevant to the professional course and the Info day was included to the article and it is shown below.



Erasmus+ DS&AI project was started in 2018 for the main purpose of introducing a novel Master's degree program in **Data Science and Artificial Intelligence in Asia** with the mission of bringing **European-standard advanced education to Asia**. Nine Asian universities, three European universities and four European companies are involved in the above project.

As a part of the project, a team of four academics (Mr. DDA Gamini, Dr. TGI Fernando, Dr. Chitraka Wickramarachchi & Dr. RM Silva) from the Department of Computer Science and the Department of Statistics participated in a study visit to Greece and the Netherlands with primary objective of designing curriculum, together with other partner universities, for the Master's degree program in Data Science and Artificial Intelligence.

In parallel to the Masters degree program in Data Science and Artificial Intelligence, professional training courses are going to be offered by each partner university targeting the people from the industry. In order to design and offer these professional courses at the University of Sri Jayewardenepura, we will be organizing an awareness program called "Info Days" inviting the prospective candidates from the industry.

Photos:



Planned Future Events

1. Info Day

Date: October, 2020

Target Participants: Professionals from various data science companies

Summary of Event:

Unfortunately, due to the prevailing pandemic situation the organizing the Info Day got delayed. However, now it was scheduled to be held in October, 2020 with the participation of professionals from various data science companies

Conclusion

Asian HEIs in Thailand, Indonesia, and Sri Lanka have organized various events to attract prospective students to enroll into the developed DS&AI Master's curriculum as well as to promote the developed training courses to companies and organizations from all relevant sectors. The events have been successfully organized as either an onsite or online event with many interested attendees. In addition, future Info Day events are planned at all Asian HEIs to continuously PR their Master's programmes and professional courses. In summary, 20 events have been organized, and 19 future events planned.

ANNEX: Participant lists

UOP: Organized Event 1 (Meeting with the Industry partner Axiata Digital Labs (pvt) Ltd)

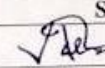
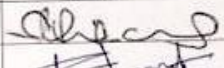
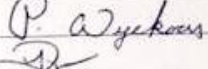
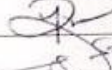
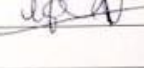
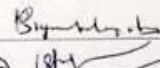
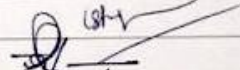
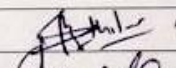
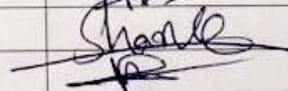
First meeting to discuss the Collaborative Activities with Axiata Digital Labs (Pvt) Ltd

Organized by: Department of Statistics and Computer Science, University of Peradeniya

Date: Friday, August 02nd, 2019

Venue: Postgraduate Institute of Science (PGIS), University of Peradeniya

Meeting Attendance

Name	Signature
Prof. Saluka R. Kodituwakku	
Prof. H.M.T.G.A. Pitawala	
Dr. Ruwan D. Nawarathna	
Prof. Pushpakanthie Wijekoon	
Prof. Roshan D. Yapa	
Dr. Amalka J. Pinidiyaarachchi	
Dr. Sachith P. Abeyesundara	
Dr. Hemalika T.K. Abeyesundara	
Dr. Lakshika S. Nawarathna	
Dr. S.A. Ruwan Punchi Manage	
Dr. Hakim A. Usoof	
Dr. Ruwanthini Siyambalapitiya	
Dr. Erunika O. Dayaratna	
Mr. Prabhath Gunathilake	
Mr. Mahasen Dehideniya	
Axiata Digital Labs (Pvt) Ltd team	
Mr. Namal Jayathilake	
Mr. Shanika Amarasoma	
Mr. Janaka Wickramasinghe	
Ms. Pavithra Athauda	
Mr. Uresh Duminduwardana	

UOP: Organized Event 2 (Focus Group Discussion DS&AI)

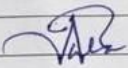
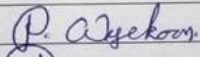
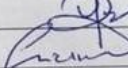
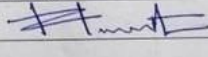
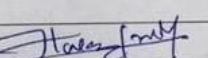
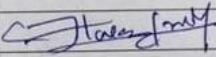
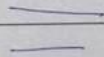
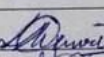
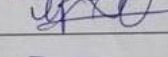
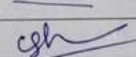
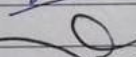
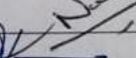
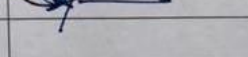
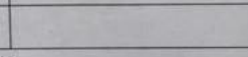

Erasmus+



Focus Group Discussion: Needs and Gap Analysis in DS&AI Curriculum

Organized by: Department of Statistics and Computer Science, University of Peradeniya
Date: Sat 10th August 2019
Venue: Oak Ray Regency Hotel, Kandy

Meeting Attendance

Name	Signature
Academic Staff	
Prof. Saluka R. Kodituwakku	
Prof. H.M.T.G.A. Pitawala	
Prof. Pushpa Wijekoon	
Prof. Roshan D. Yapa	
Dr. Chitraka Wickramarachchi	
Dr. Ruwan D. Nawarathna	
Dr. Amalka Pinidiyaarachchi	
Dr. Hakim Usoof	
Dr. Sachith Abeysundara	
Dr. S.A. Ruwan Punchi Manage	
Dr. Lakshika Nawarathna	
Dr. Hemalika Abeysundara	
Dr. Ruwanthini Siyambalapitiya	
Dr. Erunika O. Dayartna	
Dr. K.B.S.N. Jinasdasa	
Dr. Nanda Gunawardhana	
Mr. Prabhath Gunathilake	
Mr. Mahasen Dehideniya	
Dr. Nanda Gunawardhana	
Industrial Participants	
Mr. Janaka Wickramasinghe - Axiata Digital Labs (Pvt) Ltd	

USJP: Organized Event 1 (Curriculum development workshop)

Attendance Sheet

Date : 03rd July 2019

Venue : Taprobana Beach Resort, Wadduwa

No	Name	Department	Signature
1	Sareth Ranganatha	Statistics	[Signature]
2	Menaka Lijunage	Mathematics	[Signature]
3	Gnanakanthi Markandeya	Comp. Sci	[Signature]
4	Buddhi Kumarsena	Statistics	[Signature]
5	Neluka Deshpande	Statistics	[Signature]
6	P. A. Dayananda	Stats prof	[Signature]
7	Rajani M. Jayasinghe	Professor of CS	[Signature]
8	Chathura Jayasinghe	Statistics	[Signature]
9	D.A. Gamini	Computer Science	[Signature]
10	R.P.W. Fernando	Mathematics	[Signature]
11	M. D. B. Raner	Computer Sci	[Signature]
12	D.M.R.B. Bandara	Computer Science	[Signature]
13	Keshika de Silva	Mathematics	[Signature]
14	D.A.D. DEETTES	Computer Sci	[Signature]
15	Dr. Niroshana Latharige	Statistics	[Signature]
16	Rajitha M. Silva	Statistics	[Signature]
17	Ganesh de Silva	Statistics	[Signature]
18	K.M.P. Perera	Statistics	[Signature]
19	Chitika Wickramaratne	Stat	[Signature]
20	P. Dias	Stat	[Signature]
21	Dr. Arundath Edirisinghe	Computer Science	[Signature]
22	Dr. P. R. S. de Silva	Comp & Sci	[Signature]
23	Hasheem Perera	Mathematics	[Signature]
24	Uthara Manawadu	Computer Science	[Signature]
25	Kic W.A. Senarath Kumara	Mathematics	[Signature]