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FOREWORD FROM THE HEAD OF DEPARTMENT

My deepest gratitude towards the Almighty Allah S.W.T for His blessing and grace, LENSAs, which is the occasional newsletter for the Department of Building and Construction Engineering (JKBP) and the Department of Architecture and Design Engineering (JSKR), able to be published as the first release for the year of 2017.

Through the activities and events included in this issue such as internal activities like the celebration of staff retiring and moving to other universities, and demonstration of new methods related to Teaching & Learning; and the external activities such as the mobility programs credit-worthy 'outbound' to foreign universities, academic visits of students, participation in a design competition internationally and also consultation activities, highlights the involvement of the members of JKBP & JSKR in achieving a harmonious and productive working environment, with the ability to develop human capacity. Hopefully, 2017 will continue to be filled with meaningful and helpful information to students, staff, FKAAS and UTHM.

Well done and congratulations to the editors and all those involved in contributing materials and articles for the publication of this LENSAs. Hopefully this noble effort and commitment can be continued to the next publication.

Hopefully this time, LENSAs will bring something of value to all of us.

"Try not to become a man of success, but a man of value... A man of value will give more than he receives" (Albert Einstein)

Thank you very much.

DR. AZEANITA SURATKON

HEAD OF DEPARTMENT,
DEPARTMENT OF BUILDING AND CONSTRUCTION ENGINEERING

EN. IZUDINSHAH ABD WAHAB

HEAD OF DEPARTMENT,
DEPARTMENT OF ARCHITECTURE AND DESIGN ENGINEERING



22 FEBRUARY 2017

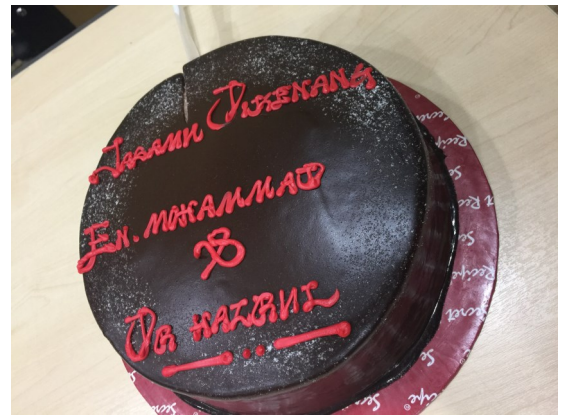
THANK YOU AND FAREWELL EVENT

Prepared By: Siti Khalijah Yaman

On the 22nd February 2017, Department of Building and Construction Engineering (JKBP) and Department of Architecture and Design Engineering (JSKR) had organized an event to celebrate few members who left us for their own goods. The event hosted by Dr. Muhammad Fikri Hasmori and it was attended by the Dean of Faculty, Assoc. Prof. Dr. Abd. Halid bin Abdullah, the management of faculty, Assoc. Prof. Dr. Norzila Othman, Assoc. Prof. Dr. Aeslina Abd. Kadir, Assoc. Prof. Dr. Mohd Haziman Wan Ibrahim, Dr. Ahmad Zurisman, Dr. Aziman Madun, management staff including our Head of Department, Dr. Azeanita Suratkon and Mr. Izudinshah Abdul Wahab.

The event was held to celebrate and as an appreciation farewell event for Mr. Mohamad Ismail, Dr. Riduan Yunus, Dr. Hazrul Abd. Hamid and Mr. Rahmat Muslim. Mr. Mohamad Ismail or generally known as “En. Mat” is going to end his service with the UTHM on May 2017. Dr. Riduan is leaving us for one year to complete his industrial attachment in Kementerian Kerja Raya (KKR). Meanwhile, Dr. Hazrul is moving to Universiti Sains Malaysia (USM) and Mr. Rahmat Muslim is transferred to Faculty of Engineering Technology (FTK).

This separation is a great loss for all of us and it was difficult to find a talent as all of them. However, we hope this farewell will give a new bright start for their future.



MAY 2017

UTHM'S FIRST EVER 'ONE SEMESTER CREDIT MOBILITY PROGRAM' BETWEEN FACULTY OF CIVIL AND ENVIRONMENTAL ENGINEERING (FCEE) & CITYU HONG

Prepared By: FCEE Academic Committee (Mr. Shamsulkhairi Md. Salleh & Madam Siti Hasnah bt Hud) & Assoc. Prof. Dr. Zainal Abidin Akasah

On late May 2016, the Faculty of Civil and Environmental Engineering (FCEE), of Universiti Tun Hussein Onn Malaysia (UTHM) had announced the students who were eligible to participate in a One Semester Credit Mobility Program to City University of Hong Kong (CityU HK). Congratulation to FCEE Dean, Assoc. Prof. Dr. Abd. Halid and all the management staff in the first ever for UTHM, which can be majorly credited to the Memorandum of Understanding (MoU & MoA) signed between FCEE and CityU HK in 2015. With CityU HK ranked at no.55 in the QS World University Rankings; By subjects (2017) where Civil & Structural Engineering no. 46th, it is no wonder that the university had been chosen as a partner in the MoU. Globally recognized as a top center for higher learning and research, CityU HK will be able to seamlessly provide the students with the opportunity to new experiences in a diverse learning environment.



Syahira and Amira at CityU Entrance

The announcement of the 'One Semester Credit Mobility Program' by FCEE, brought in a wave of enthusiastic students applying from the faculty. These applicants were narrowed down by the HK Mobility committee coordinated by Assoc. Prof. Dr. Zainal Abidin Akasah, based on the requirements needed which includes a high CGPA score as well as participations in extracurricular activities. Those that succeeded were further selected through rigorous interviews in order to hand-pick the most qualified and suitable applicants to undergo the program. The final students that made it to the top were two 2nd year Civil Engineering students, Nurul Amira Zainundin and Nurusyahira Hanani Muhammad. Last but not least, both students were the winner of the Creativity and Innovation competition program 2016, and were selected to enroll in the One Semester Credit Mobility Program at CityU HK for the duration of 5 months starting from 31st December 2016 until 30th May 2017.



One of the Academic Building in CityU

In order to provide a full credit transfer for the program, both students took upon subjects provided by the Department of Architecture and Civil Engineering CityU with contents that resemble up to 80-100% with the subjects provided in UTHM, in order to achieve this criteria. The four courses taken at CityU were Construction Contracts 1 which corresponds with BFC31602-Contract and Estimation, Engineers and Society which corresponds to BFC32202-Engineers & Society, Hydraulics and Hydrology which corresponds to BFC1103 Hydraulic and BFC32002 Hydrology, and Maintenance Technology & Management which corresponds to BFB40903-Building Maintenance. At the end of this program, both students had been taking their Final Examinations at CityU HK with a total subjects of 12 credits hours.

Students of CityU are not only high achievers academically, but they are also known to be active in many extracurricular activities such as clubs, and societies. This social culture will most definitely benefit both UTHM students in improving their communication skills as well as broadening their worldviews throughout the entire program. This experience will not only assist both students in opening the doors to possible future careers, but at the same time, providing the capability to make new friends from different cultural backgrounds



MAY 2017

UTHM'S FIRST EVER 'ONE SEMESTER CREDIT MOBILITY PROGRAM' BETWEEN FACULTY OF CIVIL AND ENVIRONMENTAL ENGINEERING (FCEE) & CITYU HONG KONG A SUCCESS (CONT.)

With this in mind, Syahira and Amira registered with the International Friend Club (IFC), which provides students with IFC Buddies, comprising of senior students who spend their time and effort in the club volunteering to help new non-local students get acquainted with life in CityU and also around Hong Kong. IFC Buddies can be referred to when there are enquiries and problems that arise, and they will gladly figure out what needs to be done. This buddy system helps provide new students with the knowledge that they are not alone in the new environment that they are experiencing, and at the same time reduces depression and stress rates in students. The IFC Buddies of Amira and Syahira are Tom Gor-wong and Katie Wong.

Apart from the IFC, both students were also members of the International Society (ISOC). Members of ISOC comprises of international and non-local CityU students, who gather together in order to learn and understand each other's different religions and cultures, while providing various views and perspectives. ISOC has also organized multiple activities and events throughout the whole semester.

Other than clubs and societies, CityU is highly respected in sports, with over 15 known sports teams that take part in many interschool sports competitions annually. All students are welcome for the team try outs, and CityU's highest achievements in sports are badminton and basketball.

During the semesters, CityU also organizes festivals and events that encourages all students to participate such as the Indonesian Night, where students from Indonesia perform dramas and sketches as well singings of Indonesian songs. Famous local dishes were also cooked such as the *Rendang Ayam*, fried noodles and rice, *Bakso*, and so much more. Another event was the Gala Dinner that was held during winter at the Residence Hall. The purpose of this dinner was to introduce the exchange students to the wide variety of culture from different cultures in one night. Food served during the dinner incorporated the different cultures as well accommodating to the students by providing Halal food. There was also the Taiwanese and Japanese Night that was organized to help introduce the country to the exchange students. All these festivals and events largely helped to improve the student's knowledge of the different countries including cultures, traditions, and lifestyle.

Throughout the whole program, both UTHM students were provided by CityU the accommodations at the Student Residence located at Cornwall Street. The facility comprises of 11 residential halls, 10 for undergraduates and 1 for postgraduate students. Syahira and Amira's accommodations were placed in Hall 6, also known as Lee Shau Kee (LSK) Hall. LSK Hall has the tradition of 'Home Sweet Home', which includes the whole hall's residence and sees them as one big family, whereby everyone accepts each individual differences in order to live in perfect harmony. LSK Hall has a passionate and dedicated Resident's Association (RA) whose members work with Resident Tutors (RT) in order to organize fruitful and enjoyable activities for members of the LSK Hall family. They value fun and joy as much as hard work and success.

With the program ending in May 2017 for both UTHM students, it is easy to imagine Syahira and Amira having a difficult time leaving CityU to come back home to UTHM. CityU is notorious for fulfilling the needs of their students and incorporating activities that encourage each and every student to participate, thus viewing the student body as one big family. This in turn creates a stress-free learning and studying environment within the university. UTHM will gladly return the favour for future programs to come.



Student Residence of CityU



Common room is provided every floor.



MAY 2017

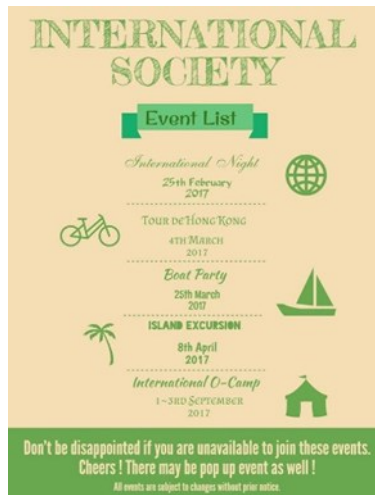
UTHM'S FIRST EVER 'ONE SEMESTER CREDIT MOBILITY PROGRAM' BETWEEN FACULTY OF CIVIL AND ENVIRONMENTAL ENGINEERING (FCEE) & CITYU HONG KONG A SUCCESS (CONT.)



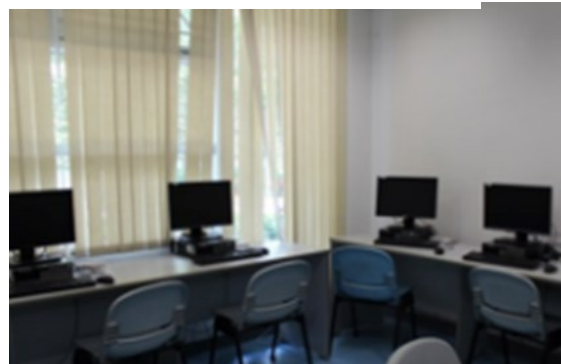
Laundry room at 10th floor.



IFC Buddies



ISOC Events



Computer room at ground floor.



Syahira, Associate Prof. Dr. Zainal Abidin and Amira



9 MARCH 2017

INTERNATIONAL INVENTION AND DESIGN (IID) COMPETITION JOHOR 2017

Prepared By: Dr. Rafikullah Deraman

Research Title: Investigating the Effectiveness of Using Empty Fruit Bunch and Rice Husk to Produce Low Thermal Conductivity Clay Bricks

On the 9th March 2017, Dr Rafikullah Deraman and the team members comprises of Prof. Dr Abd Halid Abdullah, Dr Shahiron Shahidan, Nor Sarwani Mat Saman and Mohamad Hazmi Hamzah had joined a competition on IID Johor which was held at Amansari Residence Resort, Bandar Seri Alam, Masai, Johor Darul Takzim. Their research on **Investigating the Effectiveness of Using Empty Fruit Bunch and Rice Husk to Produce Low Thermal Conductivity Clay Bricks** had won a **Bronze Medal Award** under category of Professional Level (Science and Technology). This research is under Contract Grantt (U521).

The organizing of the Invention, Innovation and Design (IID) competition was first mooted by the UiTM main campus in Shah Alam in an effort to promote innovations in all faculties and campuses as feeders for participations at the university level IINDEX (Invention, Innovation and Design Exposition). IID Johor was first organised in compliance with this requirement from the Research Innovation Business Unit (RIBU). The first IID Johor was held in Dewan Sri Temenggong, UiTM Johor in the year 2009 at the UiTM Johor level. In the following 2 years, it was opened to the public at the Southern Zone level. In 2012 and 2013, it gained momentum and was opened at the national level. IID Johor became a brand name linked to UiTM Johor known to many local and international institutions of learning. Beginning 2014, the Innovation Unit, UiTM Johor with great confidence and anticipation, organized IID Johor for the first time at the international level. Again in 2015 the competition was organized at the international level and has been held outside UiTM Johor's campus in Johor Bahru. The strive for excellence has led to IID Johor this year to also be open at the International level and hoping to get more participants.

The main objectives of IID 2017 are to promote a culture of innovation and creativity among professionals, university students and students from various fields, highlighting the R & D and new inventions in the field of Science, ICT, Social Sciences, Business and Management and also generate designs and inventions that can be commercialized at national and international levels. Total participation is about 257 teams include school level, tertiary level and professional level.



Amansari Residence Resort



Team members



13 - 15 APRIL 2017

SUSTAINABLE BUILDING DEVELOPMENT & MAINTENANCE PROGRAM IN KUCHING, SARAWAK

Prepared By: Dr. Rafikullah Deraman

Organizer: BFB40903 - BUILDING MAINTENANCE, SEMESTER 2 2016/2017

Date: 13 April 2017 – 15 April 2017

Location: Kuching, Sarawak

Lecturer: i) PM Dr Zainal Abidin Akasah (Chief De Mission)

ii) Dr Rafikullah Deraman

iii) Dr Fikri Hasmori

Students: 72 (section 1 and Section 2)

Background of Site Visit

The program aims to expose students to review the activities and management in a historic building based on the concept of student-centered learning (SCL) for Building Maintenance (BFB40903) course.

BFB40903 course involved building maintenance plan and organize an appropriate maintenance system for a building operated, as well as collect and compile data on the building maintenance management system based on the latest information. Students of this course will also learn about the provision of the appropriate maintenance management system to suit the construction with the cooperation of certain agencies.

Therefore, the implementation of the program will expose students to the real state of ongoing maintenance and management of a building to maintain the actual situation and the function of a building, especially historical buildings in Malaysia, in addition to good relations with local communities and governments.

Objective

- Students can identify and gain knowledge on system maintenance on the building.
- Students are able to analyze and manage the maintenance of historic buildings to preserve the original structure.
- Students acquire and apply knowledge and experience in the field to manage and handle building maintenance problems.
- Universities are able to produce graduates with expertise in civil engineering, in particular in the field of building maintenance and can establish good relationships with the community and the local government.



13 - 15 APRIL 2017

SUSTAINABLE BUILDING DEVELOPMENT & MAINTENANCE PROGRAM IN KUCHING, SARAWAK (CONT.)

Day 1 Thursday (13 April 2017)

RTM KUCHING SARAWAK

One of the programs was a program carried out with RTM Kuching Sarawak. This program was focusing on audio and visual systems used in a broadcasting station. In addition, in this activity, students had been getting more in-depth information about the latest technologies used by the RTM Kuching. This program was an invitation from Mr. Sulaiman Hipni, the manager of RED.fm. We had the opportunity to visit radio broadcasting studio as well as the opportunity to broadcast live on radio Sarawak.fm.



FACULTY OF ARCHITECTURE AND CREATIVE ART, UTM KUCHING SARAWAK

A visit to the faculty of architecture was intended to develop close relationship and knowledge sharing session with the experienced lecturers between Architecture students of UiTM Kuching and students of Civil & Environment Engineering UTHM. This program had been exposed the students with new ideas in order to identify issues in creating a building design to reduce structural defects or fabric during or even after it was built. In addition, we also visited the studio of architecture in UiTM Kuching.



SUSTAINABLE BUILDING DEVELOPMENT & MAINTENANCE PROGRAM IN KUCHING, SARAWAK (CONT.)

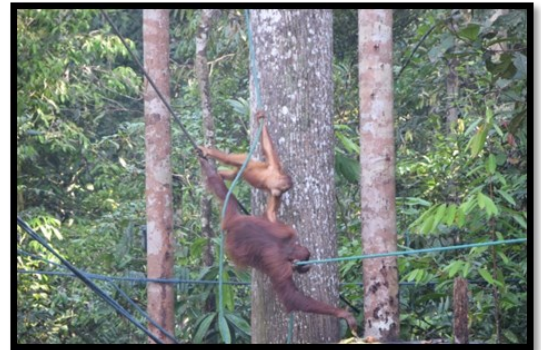
DAY 2 FRIDAY (14 APRIL 2017)

SEMENGGOH NATURE RESERVE AND WILDLIFE CENTRE

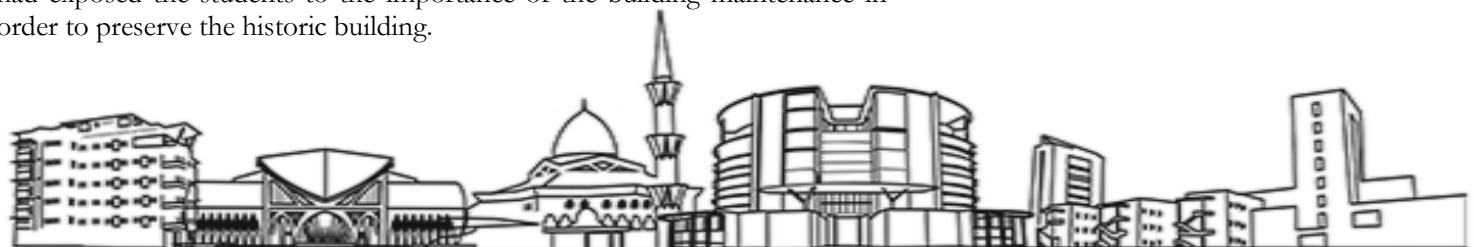
We had the opportunity to visit the orangutan's habitat in Semenggoh Nature Reserve and Wildlife Centre. In addition, this program also had exposed the students about the importance of preserving the flora and fauna. As we may know, Orangutans are among the endangered animals. As what had been informed by the census of officials involved, 28 orangutans were identified in this area. Orangutans are living here in their natural habitats without interruption and this center is continuously preparing inspections and surveys to preserve this endangered animals. The brief introduction and welcoming speech was given by the Head Manager of Semenggoh Nature Reserve and Wildlife Center, Madam Nor Email Jaddil Farnida. From this program, students were able to get to know on the habitat of orangutan and also the other wildlife animals around this area. In addition, in the context of building maintenance, students were exposed and clearly explained on how the center was able to maintain and manage as a more organized and efficient center. In conjunction with the visit of students from the Faculty of Civil and Environmental Engineering UTHM, one of the orangutan named Richie had been adopted by Faculty of Civil and Environmental Engineering, UTHM.

ETHNOLOGY MUSEUM SARAWAK

Program at Ethnology Museum is more to the program's management methods and maintenance of historic buildings. The museum is one of the buildings that preserve the original structure and the identity. In organizing the program out off campus UTHM, advisors and students were given the opportunity to build relationships with local communities and local governments through interviews and information to achieve the objectives of this program. Information was given by Mr. Tazudin Montar as Curator of Ethnology section Collection and Management. This program which had been conducted out off-campus was able to expose students to the real environment of historic buildings and was able to transform teaching and learning process for the building maintenance course as a student-centered learning (SCL). It was also



had exposed the students to the importance of the building maintenance in order to preserve the historic building.



13 - 15 APRIL 2017

SUSTAINABLE BUILDING DEVELOPMENT & MAINTENANCE PROGRAM IN KUCHING, SARAWAK (CONT.)

DAY 3 SATURSDAY (15 APRIL 2017)

SARAWAK CULTURAL VILLAGE

The Sarawak Cultural Village is a living museum which was wholly owned by the Sarawak Economic Development Corporation (EDC). The village depicts the cultural heritage of the major racial groups in Sarawak and conveniently portrays their respective lifestyles amidst 14 acres of tropical vegetation. The facilities (traditional houses) offered and exhibited to the visitors are Iban Longhouse, Orang Ulu Longhouse, Chinese Farmhouse, Melanau Tall House Malay House, Penan Hut, Penan Nature Trail, Rainforest Music House, Persada Natural Sciences and Persada. The students had been assigned few tasks at every houses in this cultural village. Besides getting the visual inspection, they had to identify the types of defect occurred, to suggest for improvement or upgrading of structures, building fabrics, systems or equipment, and to plan the maintenance program on site investigation.



30 MARCH 2017

DEMONSTRATION OF FOC

Prepared By: Dr. Tong Ying Ghing

Demonstration of Full Online Classes (FOC) was conducted on the 30th March 2017, 9 am in Meeting Room 2, FKAAS building. The aim of this demonstration was to introduce online classroom platforms for the academic staff of Department of Building and Construction Engineering and Department of Architecture and Engineering Design as their preparation to implement full online class in week 9 of academic calendar. The speakers are Assoc. Prof. Dr. Noor Yasmin Binti Zainun, Madam Nur Nasuha Binti Abd Salam and Madam Siti Khalijah Binti Yaman. A total of 14 staffs from both departments have attended the demonstration session. All instructors and lecturers are reminded to implement FOC in three main aspects, which are content, activity and assessment. There are many available online course platforms for the lecturers to choose based on their familiarity and convenience. The example online course platforms include Massive Open Online Course (MOOC), Schoology, Kahoot and Edmodo. Several online platforms have mobile application software which can allow students to access without using computer or laptop. In this session also, speakers had shared their existing online course's content and assessment methods via different online learning platforms. Some platforms are easy for conducting assessment such as quizzes, but the questions have to be short because it has the word limit. Besides, a game-based quiz using kahoot.it has been introduced and played by all staff during the demonstration.



29 MAC 2017

MESYUARAT JABATAN KEJURUTERAAN BANGUNAN DAN PEMBINAAN & JABATAN SENIBINA DAN KEJURUTERAAN REKA

Prepared By: Dr. Muhammad Fikri Hasmori

The meeting started with the recitation of surah Al-Fatihah and appreciation speech from the Head of Department to all the staff who came to the department meeting no. 1/2017. The Head of Department informed the staff about the objective of the meeting which was to discuss about the issues that were raised during the management meeting. Apart from that, the objective of the meeting was to discuss the activities and matters to be done during semester 1 2017/2018 session. One of the issues was on the KPI set by the university. Every academic staff must at least achieve the minimum required KPI that had been set by the university. The next issue was regarding to the learning and teaching activities. Every course coordinator must submit the test 1 and test 2 of their course for vetting as this process is an important element during the auditing process. The lecturers should key in their test 1 marks in the SAS system so that the student will have the opportunity to decide whether to continue or drop the subject which they are allowed to do so between week 7 and week 9. Other than that, Full Online Classroom (FOC) will take place throughout week 9 on academic calendar. Hence, all subjects involved should do online teaching and learning during week 9. Another issue was about Creativity and Innovation subject. This class mainly involved group work and discussion thus it is not suitable for the lecture to take place inside the lecture Hall, which has fixed furnitures. Plus, the maximum number of students in a class should not be more than 75 people. On the other hand, all academic staffs for semester 1, 2016/2017 session must submit their 'P&P' files to the Head of Department for review and validation. In regards to the matter related to the laboratory, En. Osman suggested that the equipments and materials that no longer in use should be moved or disposed so that it doesn't become a burden during the auditing process. New department committee members also have been appointed during the meeting. The new department committee members are as follows:

The meeting was ended at 5.00pm

Department Secretary: Dr Muhammad Fikri Bin Hasmori

Examination Coordinator: Mr. Syed Burhanuddin Hilmi Bin Syed Mohamad & Madam Nur Nasuha binti Abd Salam

Timetable Coordinator: Dr Lee Yee Yong, Dr Muhammad Fikri Bin Hasmori (JKPB) & Madam Nur Nasuha binti Abd Salam (JSKR)

Website Coordinator: Dr Nor Haslinda Abas (JKPB) & Madam Nasuha Pn Nur Nasuha binti Abd Salam (JSKR)

ISO: Dr Siti Hidayah binti Abu Talib

Welfare: Madam Hasniza binti Abu Bakar, Madam Siti Khalija binti Yaman & Hj Mohd Ayob Bin Sahlan

FYP: Dr Tong Yean Ghing & Madam Hannifah Tami

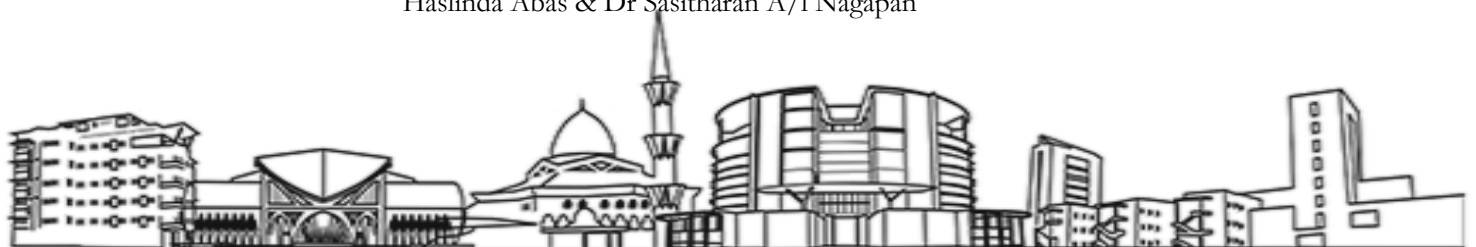
Talk Series: Madam Noorli Binti Ismail

Post Graduates: Dr Siti Hidayah binti Abu Talib, Dr Tong Yean Ghing & Dr Nor Haslinda Abas

Safety & Health: Mr. Osman Bin Abdul Rahman, Mr Saiful & Dr Nor Haslinda Abas

5S Practice: Mr. Osman Bin Abdul Rahman

OBE: Dr Rafikullah Bin Deraman, Mr. Syed Burhanuddin Hilmi Bin Syed Mohamad, Dr Nor Haslinda Abas & Dr Sasitharan A/I Nagapan



JSKR EXPERTISE COMMUNITY CONSULTATION

Prepared By: Mr. Izudinshah Abd Wahab

The Department of Architecture and Design Engineering (JSKR) was recently appointed to be among the consultant design team for the development of Ma'ahad Tahfiz Al-Arif Billah Tok Tenang complex building in Labis, Johor. The community consultation service covers the process of developing the building design with consideration on all the constraints. The first draft design was presented on 9th March 2017 by Mr. Izudinshah Abd. Wahab to the development committee chaired by Dato' (Dr.) Hj. Nooh Gadot, who is also one of the UTHM Board of Director. Presence along during the session were Prof. Dato' Dr. Abd Razak Omar and Prof Madya Dr Syed Muhammad Dawilah al-Edrus, as the representatives of Institute Ahli Sunnah Waljamaah, UTHM. The institute was appointed as the advisor for the committee on their academic affairs. In the process of applying additional fund for the development, the development proposal was brought to discussion with Unit Kerjasama Awam & Swasta under the Prime Minister Department on 12 April 2017. Due to its estimated cost of development, the project was advised to deal directly with the corporate sectors with intention to be the funder.



Draft design presentation to the community chaired by Dato' (Dr.) Hj. Nooh Gadot



Discussion at UKAS, Department of Prime Minister.



CONGRATULATIONS!



DR. AZEANITA BINTI SURATKON

ON BEING
APPOINTED AS

**HEAD OF
DEPARTMENT**

DEPARTMENT OF
CONSTRUCTION AND
BUILDING ENGINEERING
(JKBP)

From 1/3/2017 – 28/2/2019



**EN. IZUDINSHAH BIN ABD
WAHAB**

ON BEING
APPOINTED AS

**HEAD OF
DEPARTMENT**

DEPARTMENT
ARCHITECTURE AND
DESIGN ENGINEERING
(JSKR)

From 1/3/2017 – 28/2/2019



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