

LETTER OF INTENT

Between

UNIVERSITI TEKNOLOGI MARA

And

VEL TECH RANGARAJAN DR. SAGUNTHALA R& D INSTITUTE OF SCIENCE AND TECHNOLOGY (VELTECH DR.RR & DR.SR UNIVERSITY)

The purpose of this letter of intent is to promote cooperation in the fields of student exchange, teaching and research between **Veltech Dr.RR & Dr.SR University** and **Universiti Teknologi MARA**.

The collaboration can include different areas such as:

- a) Exchange of students
- b) Special short-term academic programs
- c) Exchange of faculty
- d) Strategic research cooperation

The themes of joint activities, the conditions for utilizing the results achieved and the arrangements for specific visits, exchanges and other forms of cooperation will be negotiated separately for each specific case by the concerned parties.

It is understood that all financial arrangements between the institutions will be negotiated individually.

It is also understood that the implementation of any agreement will commence on its signing by both parties, and that it will be valid for five years subject to revision or modification by mutual consent. The possibility and terms of renewal of any agreement will be discussed by the representatives of both universities within six months prior to its termination.

It is also understood that this Letter of Intent will not, in anyway, create an obligation on each party to enter into an agreement.

**UNIVERSITI TEKNOLOGI MARA
SHAH ALAM, SELANGOR,
MALAYSIA**

**PROFESSOR EMERITUS DATO'
DR HASSAN SAID**
Vice-Chancellor/President

**VELTECH DR. RR & DR. SR
INDIA**

COL. PROF. DR. R. RANGARAJAN
Founder Chancellor & President

MEMORANDUM OF AGREEMENT

BETWEEN

UNIVERSITI TEKNOLOGI MARA

AND

**VEL TECH RANGARAJAN DR. SAGUNTHALA
R& D INSTITUTE OF SCIENCE AND TECHNOLOGY
INDIA**

THIS MEMORANDUM OF AGREEMENT (hereinafter referred to as "MOA") is made on the 08th.....Day of ~~DECEMBER~~...2017

BETWEEN

UNIVERSITI TEKNOLOGI MARA, an institution of higher learning established under the Universiti Teknologi MARA Act 1976 (Act 173), having its address at Chancellery, 40450 Shah Alam, Selangor Darul Ehsan, Malaysia (hereinafter referred to as "UiTM") and shall include its lawful representatives and permitted assigns (hereinafter referred to as "UiTM") of the one part,

AND

VEL TECH RANGARAJAN DR. SAGUNTHALA R& D INSTITUTE OF SCIENCE AND TECHNOLOGY, a university established under section 3 of University Grants Commission Act 1956, having its address at 34, Gandhi Mandapam Road (Next to SBI), Kotturpuram, Chennai 600 085 Tamil Nadu, India and shall include its lawful representatives and permitted assigns (hereinafter referred to as Veltech) of the other part.

(UiTM and Veltech shall be collectively referred to as the "Parties" and individually as the "Party").

WHERE:-

- A. UiTM is an established University with a track record of educational excellence and research and with a dynamic programmed of collaborative arrangements with many international counterparts.
- B. Veltech is an institution of higher learning in India whose vision is to make headway in educating students in science, technology, management and

other areas of learning and is committed to equip its students to be driven by knowledge to confront the world's great challenges.

- C. Both Parties, in recognizing the mutual interest and benefit in strengthening the Conceive-Design-Implement-Operate (CDIO) in teaching and learning education framework, and in pursuit of their desire to co-operate in defined areas, have arrived at the agreement set forth herein.

NOW THEREFORE in consideration of the mutual covenants and promises made by the Parties hereto, UiTM and Veltech hereby have reached an agreement as follows:

PART I

DEFINITIONS AND INTREPRETATION

- 1.1 In the MoA, unless the context requires otherwise the following terms shall have the following meanings:

"MoA" means this Agreement and all variations, amendments, modifications, additions and supplements thereto agreed to in writing by both parties herein.

"Confidential Information" means all know-how, trade secret or other information of any kind, whether in printed or electronic format, including but not limited to technical information, data and information relating to either Party's business, marketing strategies, financial condition and operations whether or not labeled as "Confidential" and submitted by one Party to the other.

"Intellectual Property Rights" or means any and all intellectual property or proprietary rights and any derivations thereof subsisting, whether now or in the future, anywhere in the world, including

"IPR"

any patents, copyrights, data-base right, trade mark, trade names, service marks, logo, labels, packaging, trade dress, get-up, good will, designs, industrial design, proprietary information, confidential information, trade secrets and any other proprietary marks (whether registered, unregistered or where registration is pending) and any other intellectual property rights.

"Programme"

it refers to exchange staff between both parties in implementing the CDIO in teaching and learning for engineering and the exchange will be conducted as scheduled and agreed by both parties as set in Part 3.

PART 2

GENERAL AREAS OF AGREEMENT

- 2.1. The Parties shall, subject to mutual consent, encourage and promote cooperation which shall include any programme and activity offered by either Party and considered by both to be economically desirable and feasible including sharing of expertise, facilities and information, seminars and conferences and joint projects.
- 2.2. The collaboration shall be carried out subject to the approval of appropriate authorities within UiTM and Veltech.
- 2.3. The names and particulars of eligible parties to implement the Programme shall be supplied and agreed by both parties.

PART 3
IMPLEMENTATION

- 3.1 The plan of Programme, the module, the supply of suitably qualified trainers and all course materials related to the Programme shall be the responsibility of UiTM who initiate the Programme.
- 3.2 The provision of premises, facilities, equipment and supplies for the purpose of this Agreement shall be the responsibility of Veltech and UiTM who host the Programme.
- 3.3 The co-operation, pursuant to this MOA, will be managed by UiTM.
- 3.4 The mode of implementation and cost for individual activities of co-operation under Parts 1 and 2 of this MOA, shall be the responsibility of Veltech, as agreed between the Parties.
- 3.5 The travelling cost of travel of UiTM trainers to Veltech and return shall be the responsibility of Veltech.
- 3.6 The implementation cost of the Programme and its distribution is itemised in **Appendix "A" of this MOA.**

PART 4
INTELLECTUAL PROPERTY RIGHTS

- 4.1 The intellectual property rights of whatever nature in the training modules of the Programme are and shall remain the property of UiTM who developed any system and training modules as the result of the Programme.

- 4.2 Any intellectual property conceived, discovered, or developed by any individuals or parties in the course of this Programme shall be and remain the sole and exclusive property of the Parties or Entities who developed any system and training modules as the case may be.

PART 5

CONFIDENTIALITY

- 5.1 The Parties undertake to observe confidentiality towards other parties not concerned or connected with this MOA. Any confidential information disclosed to either Party pursuant to this MOA shall not without prior written consent of the other Party be disclosed to a third Party or be used for any purpose not expressly permitted in writing by the other Party.
- 5.2 The confidentiality provisions apply to all confidential information exchanged between each Party including any confidential information exchanged in preliminary discussion and during negotiations relating to matters within the scope of this MOA. Both Parties agree to develop procedures for the disclosure and protection of their confidential information.
- 5.3 The obligation of this confidentiality shall not apply under the following circumstances:
- a) the confidential information was previously known to the receiving Party without restriction prior to receipt hereunder as evidenced by the records of the receiving Party;
 - b) the confidential information is available or hereafter becomes available to the public in the form of a printed publication through no breach of this MOA;

- c) The confidential information is subsequently disclosed to the receiving Party having lawful right to disclose such information;
- d) The confidential information is required by law to be disclosed.

PART 6

RELATIONSHIP BETWEEN THE PARTIES

- 6.1 Neither Party makes any warranties or representations that it, shall follow any recommendations for joint ventures or other co-operative projects, which may be developed as a result of this MOA.
- 6.2 Neither Party may pledge the credit of the other Party as a result of entering into this Agreement.

PART 7

PUBLICATION

- 7.1 The Parties have the right to jointly submit for publication and to publish papers resulting from the activities under this MOA but will not knowingly submit for publication nor publish papers containing technical know-how in such a way as would disregard the commercial interest of any party in the technical know-how.
- 7.2 Notwithstanding the provisions of Clause 7.1 herein, all such publications shall, nevertheless, be subjected to Part 5 herein.

**PART 8
DURATION**

- 8.1 This MOA shall be for the duration of five (5) years beginning ~~Dec.~~, 2017 until ~~Dec.~~, 2021 or until this MOA has been terminated in accordance with Part 11 herein.
- 8.2 This MOA may be renewed for further periods on terms and conditions to be agreed upon.

**PART 9
SCHEDULE**

The schedule to this MoA and the provisions and conditions contained therein shall be taken read and construed as an integral part of this MoA.

**PART 10
SETTLEMENT OF DISPUTES**

- 10.1 Any indifference or dispute between the Parties concerning the interpretation and/or implementation and/or application of any of the provisions of this MOA shall first be settled amicably through mutual consultation and/or negotiations between the Parties.
- 10.2 In the event of non-resolution of the dispute referred in Clause 10.1, reference will be made to a mediator jointly appointed by the Parties who will mediate the dispute or difference in question.

PART 11

TERMINATION OF MOA

- 11.1 In case of a material breach or violation of Clauses 3.1, 3.2, 3.4, 3.5 and 3.6 by either party may serve on the other a written notice of thirty (30) days to rectify the breach or violation.
- 11.2 If the breach or violation is not substantially rectified within thirty (30) days from the date of receipt of notice, this MOA may be terminated by either party by serving on the other a thirty (30) day written notice of termination.
- 11.3 Termination of this MOA shall not affect any rights or liabilities already accrued.
- 11.4 Despite a termination under Part 9, both parties shall do their utmost to protect the trainees' interests and expectations of all trainers who are enrolled in a Programme that is the subject of this MOA.

PART 12

SUSPENSION

Each party reserves the right for reasons of national security, national interest, public order or public health to suspend temporarily, either in whole or in part, the implementation of this MOA which suspension shall take effect immediately after notification has been given to the other Party in accordance to this Agreement.

PART 13

FORCE MAJEURE

Neither of the Parties will be liable to the other for any delay or failure to fulfil their obligations under this research project to the extent that any such delay or failure arises from causes beyond their control, including but not limited to fire, floods, acts of God,

acts of regulations or any governmental or supranational authority, war, riot, strike, lockouts and industrial disputes.

PART 14

SEVERABILITY

The various provisions and sub-provisions of this Agreement are severable and if any provision or sub-provision or part of this Agreement is held to be unenforceable by any court of competent jurisdiction, then such unenforceability shall not affect the validity or enforceability of the remaining provisions or sub-provisions or part of this Agreement

PART 15

NOTICES

- 15.1 Notices under this MOA shall be in writing and to be delivered by hand, by registered mail, e-mail or by facsimile to the parties at the following address:

For **UNIVERSITI TEKNOLOGI MARA**

Authorized Representative :	DEAN
Address :	Faculty of Civil Engineering Universiti Teknologi MARA 40450 Shah Alam Selangor, Malaysia
Tel. No. :	03-5544 3311
Fax. :	03 5543 5275
E-mail :	dekanfkja@salam.uitm.edu.my

To VELTECH DR.RR & DR.SR UNIVERSITY:

Authorized Representative : S.SIVAPERUMAL
Tel. : +91 96000 40255
Fax : +91 44 2684 0262
e-mail : dint@veltechuniv.edu.in

**PART 16
MISCELLANEOUS**

- 15.1 Each Party shall bear its own respective legal costs of and incidental expenses for the preparation of this MOA with the exception of stamping fees which shall be borne by the Principal.
- 15.2 Neither Party shall use the name, logo or certification marks nor the names of any member of each parties' staff, in any publicity, advertising or news release, publication in written form or by way of electronic media representing that the parties are partners or having collaborative arrangements in any way with each other without prior written approval of the other Party.
- 15.3. This MOA shall be governed by and construed in accordance with the laws of Malaysia.
- 15.4. Any amendment or variation to the MOA may be made in writing with the mutual consent of both parties.

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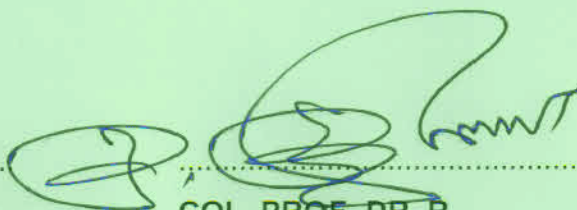
IN WITNESS WHERE OF the parties hereto have caused this Memorandum of Agreement to be signed in their respective names at the day and year first herein above written.

Signed by
for and on behalf of
UNIVERSITI TEKNOLOGI MARA
SHAH ALAM, SELANGOR,
MALAYSIA



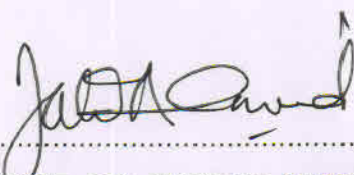
.....
PROFESSOR EMERITUS DATO'
DR HASSAN SAID
Vice-Chancellor/President

Signed by
for and on behalf of
VELTECH DR.RR &
DR.SR UNIVERSITY
INDIA



.....
COL. PROF. DR. R.
RANGARAJAN
Founder Chancellor & President

Witnessed by:



.....
PROF. DR. ZAKIAH AHMAD
Dean
Faculty of Civil Engineering
Universiti Teknologi MARA

Witnessed by:



.....
S. SIVAPERUMAL
Director (i/c) International Relations
Veltech Dr.RR & Dr.SR University



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

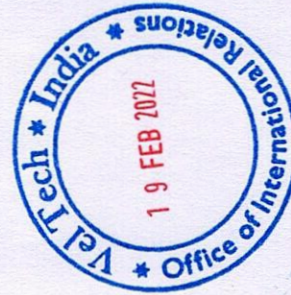
Univerisiti Teknologi Mara (UiTM), Malaysia

Name of the Research Institute/University/ Organization	Country	Duration of the Agreement	Academic Year	Date of Signing	Date of Expiry	Purpose/Activities
Univerisiti Teknologi Mara (UiTM)	Malaysia	5 Years	2017-18	02.08.2017	01.08.2022	Exchange of Students; Special Short-term Academic Programs; Exchange of Faculty; Strategic Research Cooperation

Actual Activities with Univerisiti Teknologi Mara (UiTM), Malaysia	
A.Y. 2018-19	Faculty Mobility (Incoming - Short Courses) - 2
A.Y. 2019-20	Student Mobility (Outgoing - Project work) - 2

MoU Coordinator

Dean - International Relations



Dr. P. Suresh
Dean - International Relations

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

APPENDIX A
(Shall be construed as part and parcel of the MOA)

RESPONSIBILITIES AND TOTAL COST (IN RM)

Initiated by	Party	Cost (RM)
UiTM	i) Preparation of guidelines, modules and printing.	To be provided by UiTM
	ii) Cost of training to trainers.	To be borne by UiTM
	iii) Equipment, venue and facilities during the implementation of the programme in UiTM.	To be provided by UiTM
	vi) Accommodation for Veltech staff during the implementation of the programme in UiTM.	To be provided by UiTM
	vii) Meal during the implementation of the programme in UiTM.	To be provided by UiTM
Veltech	i) Travel of UiTM trainers (8 nos from different engineering faculties – as required) to Veltech including flight tickets for 4 times (between 2017 - 2021)	To be borne by Veltech
	ii) Veltech trainers (8 nos from different engineering faculties – as required) to UiTM including flight tickets for 4 trips (between 2017 to 2021)	To be borne by Veltech
	iii) Meal during the implementation of the programme in Veltech.	To be provided by Veltech
	iv) Accommodation for UiTM staff during the implementation of the programme in Veltech.	To be provided by Veltech



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

School of Mechanical & Construction

Department of Civil Engineering

Specialized one credit course on

“Concrete Technology and Material Engineering”

(1157CE912)

by

Prof. Dr. Hamidah Mohd. Saman

Universiti Teknologi Mara, Malaysia



اَوْنُوْر تِكْنُوْلُوْجِيْ مَارَا
UNIVERSITI
TEKNOLOGI
MARA

Held on

Date: February 15 to 22, 2018

PROFESSIONAL RESUME

Dr. Ir. Hj. Che Maznah Mat Isa, P.Eng., MIEM

Contact Information

Email1: chema982@salam.uitm.edu.my

Email2: chemaznah_65@yahoo.com

Mobile: +6019-6204707

Construction Business and Project Management (CBPM) Division

Senior Lecturer,
Faculty of Civil Engineering, Universiti Teknologi MARA,
Shah Alam 40450, Selangor, Malaysia
Office: 603-5543 6163
Fax: 603-5543 5275



PROFESSIONAL QUALIFICATION & CERTIFICATION

- Registered Engineer with the Board of Engineers Malaysia since 1998.
- Professional Engineer since 2005 (Registration No. C112530)
- Professional Engineer with the Institute of Engineers Malaysia (22 October 2007: Registration No. 19405).
- Engineering Accreditation Council (EAC) Head of Panel Evaluator since 2010.
- Engineering Technology Accreditation Council (ETAC) Head of Panel Evaluator since 2017.
- Certified Master Trainer for CDIO Teaching and Learning Framework since 2012.

ACADEMIC QUALIFICATIONS

2011 – 2016: PhD in Civil Engineering, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia.

1998 – 2000: MSc. In Integrated Construction Project Management, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia

1982 – 1987: BSc. In Civil Engineering, University of North Carolina, Charlotte, United States.

WORK EXPERIENCES

April 1991 – February 1994	Lecturer Federal Institute of Technology, Faculty of Civil Engineering, Kuala Lumpur
February 1994 – November 2002	Lecturer Faculty of Civil Engineering, Universiti Teknologi MARA, Shah Alam, Selangor
1 December 2002 – April 2006	Development Officer Development Division, Universiti Teknologi MARA, Shah Alam, Selangor
1 July 2005 – 30 November 2017	Senior Lecturer , Faculty of Civil Engineering, Universiti Teknologi MARA, Shah Alam, Selangor
01 December 2017 – Present	Head of Quality Unit , Faculty of Civil Engineering, Universiti Teknologi MARA, Shah Alam, Selangor

SUMMARY OF PROFILE

Che Maznah Mat Isa was born in Jitra, Kedah, Malaysia. She graduated with a BSc. of Civil Engineering from the University of North Carolina at Charlotte, NC, United States (1987). She obtained her MSc. in Integrated Construction Project Management, Universiti Teknologi MARA, Shah Alam, Malaysia (2000) and Ph.D in Civil Engineering (2016). Her employment experience as a lecturer starts with the Federal Institute of Technology, Kuala Lumpur from 1991 until 1994, then continues with the Universiti Teknologi MARA since 1994 until now. She has acquired more than 25 years of experience as a lecturer. Currently, she is given responsible to lead the Quality Unit in the Faculty of Civil Engineering, UiTM, Shah Alam, Selangor Malaysia.

She was a Project Manager with the Development Division, Universiti Teknologi MARA from 2002 to 2006 handling UiTM's projects all over Malaysia. She is a Professional Engineer registered with Board of Engineers Malaysia (2005) and a graduate member of Institute of Engineers Malaysia. She is currently appointed as a panel evaluator with Engineering Accreditation Department, Board of Engineers Malaysia as the EAC and ETAC panel evaluator and has visited both public and private universities (i.e. Infrastructure University Kuala Lumpur, Swinburne University, Sarawak, Universiti Malaysia Pahang, Universiti Malaysia Sabah, Universiti Pertahanan Nasional Malaysia, University College of Technology Sarawak, Universiti Tun Hussein Onn, Malaysia, Universiti Perlis Malaysia) to evaluate their engineering programmes. She is currently appointed as an external examiner for Civil Engineering Programme at Universiti Selangor (UNISEL) from 2016 - 2018.

She has been involved in various activities and programmes related to teaching and learning. She is also a certified Master Trainer on CDIO Teaching and Learning Framework for Engineering Education since 2012. Some of the courses taught those are civil engineering and project management courses such as, integrated design project, engineering and resource management, construction and facilities management, risk management, project management, construction business, technology entrepreneurship including supervising final year project and master dissertation. Her research interests include international management for construction, project management and risk management.

As the Chairperson of the Approval and Accreditation Committee in the Faculty, she managed the submission process of preparing the Self-Assessment Report until submission of report to Engineering Accreditation Council (EAC) on 29 January 2013 which resulted in a 5-year accreditation for the programme. She is very active in organizing and facilitating various courses and workshop related to Outcome-Based Education (OBE), Engineering Accreditation Council-Malaysian Qualification Agency on complex engineering problems and activities. She is currently the Self-Assessment Report (SAR) project manager to prepare for the upcoming accreditation visit in 2018 and also appointed as the Chairperson for Conceive-Design-Implement-Operate (CDIO) committee for the UiTM main and branch campuses, organizing various OBE-CDIO workshops together with few benchmarking activities. She has also managed the submission process of preparing the Self-Assessment Report (SAR) until submission of report to Engineering Technology Accreditation Council (ETAC) for the Diploma in Civil Engineering Programme for UiTM's four branches in December 2017.

She has attended numerous workshops related to teaching and learning and presented papers related to her research in various conferences locally and internationally. She has also written many books such structural analysis, solid mechanics, OBE assessment guidelines (2013 – Version 1), CDIO guidelines (2017 – Version 1) and published papers in various journals. She is actively involved in consultancy work with public and private stakeholders such as Tenaga Nasional Berhad, Lembaga Lebuhraya Malaysia and Malaysian Timber Industry Board. She is involved in the development of new curriculum and review of curriculum for the diploma, degree and master programme and appointed in various committees within and outside UiTM. With positive attitudes, Ir. Dr. Che Maznah is an independent, highly motivated and committed as a goal oriented person and very passionate for a well-executed job. She is a team leader and an excellent team player with high skill in performing multi-tasking and problem solving jobs/projects.

APPROPRIATE KNOWLEDGE, SKILLS AND CAPABILITIES

- Project Manager for Development Division: Managed various projects related infrastructure to buildings for Universiti Teknologi MARA.
- EAC Panel of Evaluator: conduct accreditation to public and private universities for engineering programmes since 2010.
- ETAC Panel of Evaluator: conduct accreditation to public and private universities for technology and engineering programmes since February 2017
- External Examiner for Diploma in Civil Engineering Programme, Universiti Selangor, Malaysia, May 2016 – May 2018.
- External Examiner for Degree in Civil Engineering Programme, Universiti Selangor, Malaysia, May 2016 – May 2018.
- CDIO Master Trainer since 2012
- Chairperson for CDIO Committee (2016 – 2018) Faculty of Civil Engineering, UiTM, Shah Alam. Outcome-based Education – writing a book on CDIO assessment and best practices
 - ✓ Facilitating teaching and learning seminars and workshops
- Curriculum Reviewer
- Main Committee for Strategic Planning, (2016 – 2018), Faculty of Civil Engineering, UiTM, Shah Alam.
- Main Committee for Complex Engineering Problems and Activities, (2016 – 2018), Faculty of Civil Engineering, UiTM, Shah Alam.
- Main Committee for ICAN (2016 – 2018), (Industry, Community and Academia Network), Faculty of Civil Engineering, UiTM Shah Alam.
- Main Committee for Approval and Accreditation (2016 – 2018), Faculty of Civil Engineering, UiTM Shah Alam. Actively involve and managing various activities related to :
 - Outcome-based Education – Writing books on OBE assessment and best practices and OEL Implementation
 - Engineering Accreditation Council – preparing Self-assessment Report to EAC 2018
 - Facilitating teaching and learning seminars and workshops
- OBE-EAC Project Manager: Managing the preparation for SAR2018 and accreditation visit by handling various courses related to OBE and EAC requirements.
- OBE-ETAC Project Manager: Managing the preparation for SAR2018 and accreditation visit by handling various courses related to OBE and ETAC requirements.
- Chairperson : Approval and Accreditation Committee (2011 – 2014) – actively involve and managing various activities related to :
 - ✓ Outcome-based Education – writing a book on OBE assessment and best practices
 - ✓ Engineering Accreditation Council – preparing Self-assessment Report to EAC 2013
 - ✓ Malaysian Qualification Agency – developing and preparing MQA Document for new curriculum
 - ✓ Facilitating teaching and learning seminars and workshops
- Co-chairperson: Development of New Curriculum for Master of Science in Construction Business (EC777)
- Main Committee: Development of New Curriculum for Bachelor of Science (EC222)
- Main Committee - Quality Management System Unit (2008 -2009)
- Main Committee – Development of Student and Alumni(2009)
- Coordinator for Final Year Project (2009 – 2010)
- Main Committee – Accreditation Action Unit (2008)
- Project Manager for Development Division, UiTM (2002 -2006)
- Secretary for various conferences (CONCET2009, ISCIE2006, WCCMS2002, WCTE2002).

AWARDS

- 1) **Gold Award:** IIDEX2017 - Invention, Innovation & Design Exposition 'Innovate to Inspire': 25 – 29 September 2017, Paper 1 - " OBE-PO Triang 3Cs Model for Civil Engineering Programme Through Culminating, Consolidating and Interlinking Courses by Che Maznah Mat Isa , Janmaizatulriah Jani, Wardah Tahir, Mazidah Mukri and Hamidah Mohd Saman
- 2) **Silver Award:** IIDEX2017 - Invention, Innovation & Design Exposition 'Innovate to Inspire': 25 – 29 September 2017, Paper 2 - Automatic Easy System to Calculate Student Learning Time (SLT) by Mazidah Mukri, Hamidah Mohd Saman, Janmaizatulriah Jani, Che Maznah Mat Isa and Wardah Tahir
- 3) **Best Commercial Value Award:** OLI+S ELETEM Decision Model for Construction Companies in International Markets, Melaka International Intellectual Exposition Dewan Taming Sari, UiTM Alor Gajah, Melaka. 7-8 December 2016.
- 4) **Gold Award:** OLI+S ELETEM Decision Model for Construction Companies in International Markets. Melaka International Intellectual Exposition Dewan Taming Sari, UiTM Alor Gajah, Melaka. 7-8 December 2016.
- 5) **Gold Award:** Development of Model on Success Factor Influencing Construction Projects in Penang. Melaka International Intellectual Exposition, Dewan Taming Sari, UiTM Alor Gajah, Melaka. 7-8 December 2016.
- 6) **PhD Award** during Convocation: 22 October 2016, Dewan Agung Tuanku Canselor, UiTM Shah Alam.
- 7) **Consolation Prize Winner:** The Best Research Award on Project Management: PhD Category, "An Integrated Model for International Market Entry Location, Entry Timing and Entry Mode (ELETEM) Decisions of Malaysian Construction Firms", Project Management Technical Division, The Institution of Engineers Malaysia (IEM). **20 July 2016**
- 8) **Diamond Award Winner** in an International Business Innovation, Invention and Design (IBIID2016), **1-3 March 2016**
- 9) **Best Paper Award** for Construction Project Management Category in International Civil and Infrastructural Engineering Conference (InCIEC2015), Kuala Lumpur **21-22 Sept 2015**.
- 10) **Excellent Service Award** (Anugerah Khidmat Cemerlang) **for year 2011 on 12 December 2012.**

RESEARCH/CONSULTANCY GRANT

- 1) Member: Kajian "Customer Survey and Behavioural Study on the Pilot Implementation of TNB Time-of-Use (TOU) Tariff for Low Voltage (LV) Ordinary Power Consumers", No. Pendaftaran Projek : 0000147015002, Amaun : **RM298,741.92**. from April 2017 – Dec 2017. Ongoing.
- 2) Member: "Kajian Penggunaan Kayu dalam Industri Pembinaan di Malaysia" from April 2016 – Mar 2018. MTIB Grant. **RM500,000.00**. Ongoing.
- 3) Member: Abu Dhabi University Grant Award: AED70,000.00 (**RM85,000.00**) for "Building Information Modeling as a Sustainability Tool for Project Management in the UAE" from 22 November 2015 – 31 August 2017. Ongoing
- 4) Member: Lembaga Lebuhraya Malaysia research grant: **RM232,788.72** from 18 December 2015 – 14 December 2016 (extended June 2017). Ongoing.
- 5) Member: Tenaga Nasional Berhad research grant: **RM396, 505.00** from 14 August 2014 – 15 May 2015. Completed.
- 6) Principal Researcher: E-Science grant: Ministry of Science, Technology and Innovation, Malaysia, **RM59,200.00**. 01 November 2012 – 31 October 2014. Completed.
- 7) Principal Researcher: Intensive Research Fund: Research Management Institute, UiTM, **RM32,000.00**. 01 June 2012 – 31 May 2014. Completed.
- 8) Member: FRGS "Timber Properties Using Dielectric Constant by Low Frequency Techniques" 2007-2008. **RM25,000.00**. Completed.
- 9) Principal Researcher: IRDC, "International Market Penetration by Malaysian Contractors : Challenges and Difficulties", **RM25,000.00**. 2005. Completed.

THESES

- Ph.D Thesis Title: An Integrated Model for International Market Entry Location, Entry Timing and Entry Mode (ELETEM) Decisions of Malaysian Construction Firms.

- MSc. Dissertation Title: International Market Penetration in China by Malaysian Contractors: Opportunities, Difficulties and Strategies

POSITIVE ATTITUDES

- Independent, highly committed & goal orientated
- Passion for a well-executed job
- Team leader & Team player
- Multi-tasking and problem solving skills

**ACADEMIC PROGRAMMES/COURSES/WORKSHOPS/CONFERENCES/
COMPETITION AS RESENTER/PARTICIPANT/FACILITATOR/SPEAKER/
EXAMINER/EVALUATOR (INTERNAL AND EXTERNAL)**

No.	Task/Responsibility	Date
Evaluator for EAC Engineering Accreditation Council (EAC) and Engineering Technology Accreditation Council (ETAC), Board of Engineers Malaysia (BEM)		
1.	Head of Panel Evaluator (HOPE) for EAC Evaluation for Degree in Civil Engineering Programme at Limkokwing University Creative Technology (LUCT)	15-17 Nov. 2017
2.	Head of Panel Evaluator (HOP) for ETAC Evaluation for Diploma in Civil Engineering Programme at Universiti Tun Hussein Onn Malaysia	23-25 Sept. 2017
3.	Head of Panel Evaluator Workshop at Dorsett Hotel Subang Jaya,	27 July 2017
4.	EAC Senior Panel Refresher Workshop, Marriot Hotel Putrajaya	20 April 2017
5.	Head of Panel (HOP) for EAC Evaluation for Civil Engineering Programme at Universiti Malaysia Perlis	15-16 Mar 2017
6.	Panel of ETAC Evaluator for Civil Engineering Technology Programme at Politeknik Sultan Abdul Aziz Shah, Tanjung Malim, Perak	23-24 Jan 2017
7.	Head of Panel (HOP) for EAC Evaluation for Civil Engineering Programme at Universiti Tun Hussein Onn Malaysia	17-18 October 2016
8.	Panel of EAC Evaluator for Civil Engineering Programme at University College of Technology Sarawak (UCTS), Sarawak	18-19 July 2016
9.	Head of Panel (HOP) for EAC Evaluation for Civil Engineering Programme at Universiti Pertahanan Nasional, Malaysia	10 – 13 May 2016
10.	Head of Panel (HOP) EAC Evaluator for Civil Engineering Programme at Universiti Sabah Malaysia.	3 – 5 April 2016
11.	Panel of EAC Evaluator: Pre-ADM Workshop, EAC Kelana Jaya	29 - 30 June 2016
12.	EAC/OBE Facilitator for Workshop on “Complex Engineering Problems and Engineering Activities” for Diploma EC 110 at UiTM, Pulau Pinang	14 December 2015
13.	EAC Evaluator Refresher Workshop: Complex Engineering Problems and Engineering Activities, Putrajaya.	November 2015
14.	EAC Evaluator Trainee: How to write a Commendable SAR for Faculty of Electrical Engineering, UiTM, Shah Alam, Selangor,	4 November 2015
15.	EAC Evaluator: EAC Evaluation for Civil Engineering Programme Universiti Pahang Malaysia,	14-15 Sept. 2015
16.	EAC Evaluator Refresher and Realignment Workshop for Senior Accreditation Evaluation Panel Member, TH Hotel, Kelana Jaya	, 19 November 2014.
17.	EAC Evaluator: EAC Evaluation for Civil Engineering Programme at	1- 3 September 2014.

	Swinburne University, Sarawak.	
18.	EAC Evaluator: EAC Evaluation for Civil Engineering Programme at Infrastructure University Kuala Lumpur,	16-17 April 2014.
19.	EAC Panel Evaluator Trainee: Complex Engineering Problems and Activities at UniMAP:	29 Jul 2013.
20	EAC Panel Evaluator for Internal Accreditation for EC221 Programme at UiTM Pulau Pinang	19-20 November 2012
21	EAC Panel Observer for Internal Accreditation for EC220 Programme at Shah Alam	2012
22	EAC New Panel Evaluators Workshop, Kelana Jaya, Selangor, Malaysia	2010
23	EAC Panel Evaluator Trainee: Intensive Workshop on Submission to EAC: Putrajaya Marriot Hotel, Malaysia	2009
24	EAC New Panel Evaluators Workshop, Kelana Jaya, Selangor, Malaysia	2009
External Examiners (Outside UiTM)		
1.	EE visit to UniSEL for Diploma in Civil Engineering Programme	31 March 2016
2.	EE visit to UniSEL for Diploma in Civil Engineering Programme	24 March 2016
Curriculum Reviewer		
1.	Curriculum Review for Diploma in Civil Engineering Programme EC110, UiTM Pasir Gudang, Johor	22 – 24 March 2016
2.	Curriculum Review Workshop for EC220: Degree Programme for Civil Engineering, Morib, Selangor	3-5 February 2016
Auditor		
1.	EC110: Diploma in Civil Engineering Programme and EC22: Bachelor of Civil Engineering Programmes, Universiti Teknologi MARA, Pulau Pinang,	20 – 22 Sept. 2016
Strategic Planner		
1.	Main Committee in Strategic Planning Workshop: Academia, Industry and Community Committee,. Taiping, Perak.	16-18 February 2016
UiTM/Faculty Representative for Benchmarking Visits/Activities		
1.	UiTM/Faculty Representative for CDIO benchmarking, Singapore Polytechnic, Singapore.	7-9 May 2017
2.	UiTM/Faculty Representative for CDIO benchmarking, Taylor's University, Malaysia,	11 Jul 2016.
3.	UiTM Representative for International Benchmarking to NUS/NTU and SP	9-11 July 2012
4.	Facilitator: Benchmarking Visit on OBE Best Practices by Universiti Teknologi Petronas to the Faculty of Civil Engineering:	12 January 2012
5.	Representative for the Faculty of Civil Engineering, UiTM: National Benchmarking Visit on OBBE Practices of Universiti Sains Malaysia:	14 July 2011.
6.	Facilitator: Benchmarking Visit by Universiti Tun Hussein Onn to the Faculty of Civil Engineering, UiTM Shah Alam	21 April 2011.
7.	Representative for the Faculty of Civil Engineering, UiTM: International Benchmarking/OBE/CDIO Initiative at Singapore Polytechnic, Singapore.	26 October 2011
8.	Facilitator: Benchmarking visit by Unimas to the Faculty of Civil	18 October 2011.

	Engineering:	
CDIO Facilitator as Master Trainer		
1.	CDIO Workshop for EC110: Integrated curriculum for EC 110 – Diploma in Civil Engineering, UiTM, Jengka, Pahang.	6-8 February 2017
2.	CDIO Workshop for EC110: Integrated curriculum for EC 110 – Diploma in Civil Engineering, UiTM Samarahan Kampus 2, Sarawak.	08-10 November 2016
3.	CDIO Workshop for EC110: Integrated curriculum for EC 110 – Diploma in Civil Engineering, UiTM Pasir Gudang, Johor	24-26 Oktober 2016
4.	CDIO Workshop for EC110: Preparation of CDIO module and integrated curriculum for EC 110 – Diploma Programme,	26- 28 Sept. 2016
5.	CDIO Workshop for EC110: Preparation of CDIO module and integrated curriculum for EC 110 – Diploma Programme, UiTM Jengka Pahang.	25-26 July 2016
6.	CDIO Workshop for EC220: Preparation of CDIO module and integrated curriculum for EC 220 Degree Programme, UiTM Shah Alam.	23-25 May 2016
7.	CDIO Facilitator_during the Curriculum Review Workshop for Diploma in Civil Engineering Programme, EC110,. UiTM Pasir Gudang, Johor	23 March 2016
8.	CDIO Workshop for EC110: Preparation of CDIO module and integrated curriculum for EC 110 – Diploma in Civil Engineering, UiTM from UiTM Jengka Pahang.	8 – 10 March 2016
9.	EC220: Facilitate workshop on “Introduction to CDIO and Integrated Learning Outcomes” during Curriculum Review workshop, Morib, Selangor.	23 – 24 February 2016
10.	“Introduction to CDIO” during an OBE Refresher course for new lecturers, Al Jazari Seminar Room, Faculty of Civil Engineering, UiTM, Shah Alam, Selangor.	5 February 2016
11.	CDIO Trainer: Cascading of CDIO Teaching and Learning Framework to UiTM Academic Staff:	24-26 September 2013.
12.	CDIO Trainer: Workshop for CDIO Master Trainers, Meeting Room, Faculty of Mechanical Engineering, UiTM Shah Alam:	30-31 May 2013.
13.	CDIO Facilitator: Introduction to CDIO Teaching and Learning Framework for Curriculum Review for EC110 to Academic Staff from all UiTM Branches:	26-28 Mar 2013.
14.	CDIO Trainee: Teaching and Learning Framework: Workshop on CDIO - Conceive Design Implementation Operate (Component 4)	22-27 September 2013
15.	CDIO Trainee: Teaching and Learning Framework: Workshop on CDIO - Conceive Design Implementation Operate (Component 3)	4-6 June 2013
16.	CDIO Trainee: Teaching and Learning Framework: Workshop on CDIO - Conceive Design Implementation Operate (Component 2)	2012
17.	CDIO Trainee: Teaching and Learning Framework: Workshop on CDIO - Conceive Design Implementation Operate (Component 1)	2012
18.	Participant: International Conference for Engineering Education 2011 on CDIO at Taylor’s University, Lakeview Campus, Petaling Jaya.	17-19 January 2011
Participant/Presenter in Workshop/Seminar/Conference/ Competition		
1.	Presenter and Author: Paper 1: FEIIC-International Conference on Engineering Education and Research 2017 (FICEER2017) on 15-18 December 2017: <i>Direct and Explicit Measurements</i> by Siti Hawa	16-18 December 2017

	Hamzah and Che Maznah Mat Isa	
2.	Presenter and Author: FEIIC-International Conference on Engineering Education and Research 2017 (FICEER2017) 15-18 December 2017; Paper 2: Understanding Program Outcomes by Engineering Students in Outcome-Based Education Implementation by Che Maznah Mat Isa , Janmaizatulriah Jani, Hamidah Mohd Saman, Wardah Tahir and Mazidah Mukri	16-18 December 2017
3.	Co-author: IEEE 9TH International Conference on Engineering Education (ICEED2017): Implementation of Outcome-Based Education (OBE) for Civil Engineering Undergraduate Students at UiTM Shah Alam Based on Program Outcomes Attributes by Janmaizatulriah Jani, Che Maznah Mat Isa, Wardah Tahir, Hamidah Mohd Saman and Mazidah Mukri	9-11 November 2017
4.	Poster Presenter: IIDEX2017 - Invention, Innovation & Design Exposition 'Innovate to Inspire'; Paper 1 - "OBE-PO Triang 3Cs Model for Civil Engineering Programme Through Culminating, Consolidating and Interlinking Courses by Che Maznah Mat Isa, Janmaizatulriah Jani, Wardah Tahir, Mazidah Mukri and Hamidah Mohd Saman	25 – 29 Sept. 2017
5	Poster Presenter: IIDEX2017 - Invention, Innovation & Design Exposition 'Innovate to Inspire': Paper 2 - Automatic Easy System to Calculate Student Learning Time (SLT) by Mazidah Mukri, Hamidah Mohd Saman, Janmaizatulriah Jani, Che Maznah Mat Isa and Wardah Tahir	25 – 29 Sept. 2017,
6	Paper Presenter: Our CDIO Journey by Dr. Ir. Che Maznah Mat Isa and Ir. Hj. Razali Hassan, UiTM CDIO Master Trainers at Temasek Foundation International@10 Conceive-Design-Implement-Operate (CDIO) Forum 2017	12- 14 September 2017
7	Co-Author: The Second International Conference on the Future of ASEAN (ICOFA2017) - Factors Influencing Internationalization of Malaysian Construction Firms by Nor Fazilah Omar, Che Maznah Mat Isa and Ruslan Affendy Arshad	15-16 August 2017
8	Main Author: The 4th International Civil and Infrastructure Engineering Conference (INCIEC2017):: Paper 1 -Entry Timing Strategy by Malaysian Construction Firms in International Markets: Rasch Model Analysis by Che Maznah Mat Isa and Hamidah Mohd Saman	7-8 August 2017
9	Co-Author: The 4th International Civil and Infrastructure Engineering Conference (INCIEC2017):: Paper 2 - Public Perception on Timber Usage in Construction Industry by Marina Yusoff, Zakiah Ahmad, Che Maznah Mat Isa and Halilah Haron	7-8 August 2017
10	Poster Presenter: Hari Kesarjanaan Fakulti Kejuruteraan Awam, al Jazari, UiTM Shah Alam. Selangor	17 Disember 2016
11.	Poster Presenter at Melaka International Intellectual Exposition (MIIEX2016), Dewan Taming Sari, UiTM Alor Gajah, Melaka. 7-8 December 2016. OLI+S ELETEM Decision Model for Construction Companies in International Markets	07-08 December 2016
12	Poster Presenter: Development of Model on Success Factor	07-08 December 2016

	Influencing Construction Projects in Penang. Melaka International Intellectual Exposition, Dewan Taming Sari, UiTM Alor Gajah, Melaka. 7-8 December 2016.	
13	UiTM/Faculty Representative for CDIO benchmarking, Taylor's University, Malaysia,	11 Jul 2016.
14	Participant: A 2-day Workshop for Indexed Journal Writing, IIESM, UiTM,. Intekma Resort	27-29 June 2016
15	Participant: A 2-day Workshop for Indexed Journal Writing, IIESM, UiTM,. Al Jazari	18-19 April 2016
16	Participant: One-day Seminar "Mobilising Diversity to Achieve Academic Excellence", Sunway University.	07 March 2016.
17	Diamond Award Winner for "A Three-stage Approach for Development of an Integrated ELETEM Decision Model for Construction Firms in International Markets" using Rasch Model in International Invention, Innovation and Design (IBIID2016). UiTM,	01-02 March 2016.
18	Participant: Complex engineering problems workshop: Series 2 - . Sharing session by 5 EAC panel of evaluators, UiTM,	22 February 2016.
19	Participant: Complex engineering problems workshop: Series 1, Al Jazari Seminar Room, Faculty of Civil Engineering, UiTM,	02 February 2016.
20	Participant: Meeting on potential collaborations with JKR on total asset management, Al Khawarizmi Meeting Room, Faculty of Civil Engineering, UiTM,	11 January 2016.
21	UiTM/Faculty Representative: International benchmarking visit to Monash University, Malaysia;	07 January 2016.
22	Main Committee in Strategic Planning Workshop: Academia, Industry and Community Committee,. Taiping, Perak.	16-18 February 2016
23	Organizer: Memorandum of Understanding between UiTM and Lembaga Lebuhraya Malaysia, UiTM,	18 December 2015.
24	Participant: Rasch Measurement Model: An Introduction, UNISEL,	7-8 March 2015.
25	Participant: NVivo, Software and Application Workshop, Shah Alam,	30 November 2013.
26	OBE Project Manager: Managing the preparation prior to the Accreditation visit on by handling various courses related to OBE and EAC requirements.	11-12 September 2013
27	OBE Facilitator: Introduction to OBE to New Academic and Administrative Staff:	4 Sept 2013.
28	OBE Facilitator: Academic Workshop Series 2013: Addressing Complex Engineering Problems and Activities, CQI and Benchmarking Exercises for Academic Staff:	04 September 2013.
29	OBE Facilitator: OBE on Open ended Laboratory to Technical Staff:	22 August 2013.
30	Participant: 1-Day Workshop on Managing Your References and Writing Thesis, Selangor,	30 June 2013.
31.	Participant: Literature Review with ATLAS.ti 7, Melaka,	18 June 2013.
32.	Participant: Bengkel Sehari Penulisan Tesis Pantas dan Pengurusan Artikel, Selangor,	8 May 2013
33.	OBE Facilitator: Academic Workshop Series 2013: Workshop on Harmonization of Open-ended Lab (OEL),	20-21 February 2013.
34.	Participant: Bengkel Penerbitan dan Penulisan Siri 1, UiTM,	14-15 February 2013
35.	OBE Facilitator: Academic Workshop Series 2013: Enhancement in	, 29 January 2013.

	Teaching and Learning, Al Jazari Meeting Room, FCE, UiTM	
36.	<u>OBE Project Manager</u> : Managed the submission process of Self-Assessment Report until submission of report to EAC ,. Bukit Tinggi Resort	29 January 2013
37.	<u>Participant</u> OBE Training Course: Quantitative-Qualitative-Taxonomy Assessment and Complex Engineering Problems and Activities	(19 September 2012).
38.	<u>Participant</u> : Grooming for Promotion, ILQAM, UiTM,	17-18 July 2012.
39.	<u>Facilitator</u> : Implementation of OBE in T&L for FCE Servicing Lecturers	(28 March 2012)
	<u>Facilitator</u> : Introduction to MQA, EAC and OBE to Academic Staff	(01 February 2012)
40.	<u>Facilitator</u> : Workshop: Outcome based Education and Student Centered Learning: MQA Requirements;	30 Jan – 01 Feb 2011.
41.	<u>Participant</u> : Workshop: CQI Focus, Meeting Room Al-Khawarizmi, FCE, UiTM with Facilitator: Prof Ir. Dr. Suhaimi Abd. Talib:	29 June 2011.
42.	<u>OBE Trainee</u> : Workshop of Training for Trainers: Case Studies in Civil Engineering, UPM:	30 June 2011.
43.	<u>OBE Trainee</u> : Outcome Based Education Lead Trainer Course by Director of EAD, Prof. Megat:	19-20 July 2011.
44.	<u>Facilitator</u> : Outcome Based Education Implementation and Best Practice Workshop:	07 July 2011.
45.	<u>Facilitator</u> : Outcome based Education Workshop on Harmonization and Internalization towards Effective and Efficient Assessment:	26 July 2011.
46.	<u>Participant</u> : Seminar on Scholarly Teaching and Learning, UTEM, Melaka:	23 October 2011.
47.	<u>Participant</u> : Seminar Perkongsian Amalan Terbaik, Anugerah Akademik Negara:	29 November 2011.
48.	<u>Participant</u> : Standardization Education, KL Convention Centre:	6-8 December 2011
49.	<u>Participant</u> : National Colloquium: Bordering, Re-bordering & New Horizon for Education Transformation, Intekma Resort, Shah Alam, Selangor, Malaysia.	16 December 2011
50.	Research Skill Reinforcement & Journal Writing Workshop, UiTM, Shah Alam, Selangor, Malaysia.	2010
51.	<u>Participant</u> : 2-days Intensive course: Contract Administration of D&B/Turnkey Project, Shah Alam, Selangor, Malaysia	2010
52.	<u>Participant</u> : Workshop on Risk Management at Jabatan Kerja Raya, Kuala Lumpur, Malaysia.	2010
53.	<u>Participant</u> : Professorial Talk on Ethics and Green Engineering, UiTM, Shah Alam, Selangor.	2010
	REVIEWER FOR INTERNATIONAL JOURNALS AND CONFERENCE PROCEEDINGS	
1.	Journal of Science and Technology (JST), PERTANIKA, UPM, <i>Numerical Simulation of Vehicles Queue Induced by Traffic Light Signals Based on Macroscopic Approach</i>	2016/2017
2.	Journal of Construction, Economics and Building <i>"Determinants of academic success on an undergraduate architecture programme: using machine-learning techniques."</i>	2016

3.	Journal of Construction in Developing Countries, “Awareness of Local Contractors on Competitiveness in the Malaysian Construction Industry towards Liberalization and Globalization”.	2016
4.	Engineering, Construction and Architectural Management “Exploratory study on Risk Management of State-owned Construction Enterprises in China”	2015/ 2016
5.	Australasian Journal, “The Mediation Influence of Job Satisfaction on Organisational Commitment: An Examination of the Hong Kong Quantity Surveyors”.	2015
6.	Australasian Journal, <i>Prioritising Project Scope Definition Elements in Public Building Projects</i> ”	2014
7.	African Journal of Business Management (2014) “Impact of Social Network on Purchase Decisions”.	2014
8.	Colloquium on Humanities, Science and Engineering (CHUSER2014), Governance or Service Quality Improves Trust in Government” A Study of Two Local Authorities in West Malaysia	2014
9.	International Civil and Infrastructural Engineering Conference (INCIEC2014),	2014
10.	(1) “Assessing Risk Management Maturity for Construction Projects in Jabatan Kerja Raya”,	
11.	(2) The Implication Of The Standard Method Of Measurement (SMMs) for Building Works toward Contractors’ Works: Construction Contract Management	
12.	(3) Success Factors of Industrialised Building System (IBS) in Whole Project Life Cycle	
13.	(4) MALAYSIAN INDUSTRIALISED BUILDING SYSTEM (IBS): A REVIEW OF STUDIES	
14.	(5) An Overview On The Issue Of Delay In The Construction Industry	
15.	(6) Determinants of Conflict in Preventing Disputes in Malaysia Construction Industry: Stakeholders’ Perspectives	
16.	Symposium for Humanities, Science and Engineering (SHUSER2013), (1) Walkability of the Pedestrian Environment in Kuala Lumpur City from User’s Viewpoint	2013
17.	(2) A Research Paradigm for Exploring the Implementation of the Safe Working Cycle (SWC) in Hong Kong Construction Industry	
18.	INCIEC2013, (1) Factors in Implementing Sustainable Development: Malaysian Local Government”	2013
19.	(2) Comparative Study on Elements of Mixed Method as a Research Method in FM Healthcare	
	International Conference In Management Technology Research	(ICIMTR2012/2013)
20.	BIEAC2013 (1) Knowledge Management and Innovation Readiness among SMEs in Malaysia	2013
21.	(2) Assessing Cognitive Perceptions of Network Centrality as a Preferred Measure of Individual Power	
22.	CHUSER2012)	2012

PUBLICATIONS OF JOURNAL/CONFERENCE PAPERS/BOOKS

JOURNALS

2017

- 1) *Development of Ownership-, Locational-, Internalisation- plus Specialty- entry decision model for construction companies in international markets* by **Che Maznah Binti Mat Isa**, Hamidah Mohd Saman and Christopher Nigel Preece. Journal of Construction Economics and Building. Vol. 17, No. 4 December 2017. (Q2 Journal)
- 2) *Opportunities and Obstacles in Internationalization of Malaysian Construction Firms*: Nor Fazilah Omar, **Che Maznah Mat Isa** and Ruslan Affendy Arshad, Under Review. ESTEEM Journal of Science and Technology.
- 3) *CDIO Guidelines (2017)* – Version 1

2016

- 1) *"Development of Entry Location, Entry Timing and Entry Mode Decision Model for Construction Firms in International Markets* by Che Maznah Mat Isa, Christopher Nigel Preece, Hamidah Mohd Saman and Che Khairil Che Ibrahim, *Journal of Construction Management and Economics*. Vol.34, No 4-6, April-June 2016.pp. 236-257.(Q1)
- 2) *International Market Entry Locational Factors Using Rasch Model* by Che Maznah Mat Isa, Hamidah Mohd Saman, Christopher Nigel Preece, Siti Rashidah Mohd Nasir and Sharifah Abdullah. Presented in International Civil and Infrastructural Engineering Conference (InCIEC2015 Indexed Conference Proceedings), Kuala Lumpur 21-22 Sept 2015. Published in Malaysian Construction Research Journal (MCRJ) 2016. pp. 103-119. Vol. 19. No. 2. (Q3)
- 3) *Predictive Modeling for Entry Mode Decisions of Malaysian Construction Firms in International Markets* by **Che Maznah Mat Isa**, Hamidah Mohd Saman, Christopher Nigel Preece, Aini Jaapar and Siti Rashidah Mohd Nasir. Presented in Batu Malang, Indonesia 24-27 Nov 2015. In Press and will be published in indexed journal: Australian Journal of Basic and Applied Sciences.
- 4) *Delay of as-built drawings submission for Malaysian toll highway*. SR Mohd Nasir, Z Zahari, M Isa, CK Che Ibrahim *Jurnal Teknologi*, Volume 78, Issue 5-3, 2016.pp 79-84. (Q3)
- 5) *The Challenges of Construction Waste Management in Kuala Lumpur*, S. R. Mohd Nasir, Z. Zahari, C.M. Mat Isa and C.K. Che Ibrahim, *Jurnal Teknologi*, Volume 78, Issue 5-3, 2016.pp. 115-119.(Q3)

DESIGN, INNOVATION AND INVENTION COMPETITION

- 1) *Innovation: IIDEX2017 - Invention, Innovation & Design Exposition 'Innovate to Inspire':*, Paper 1 - " OBE-PO Triang 3Cs Model for Civil Engineering Programme Through Culminating, Consolidating and Interlinking Courses by Che Maznah Mat Isa , Janmaizatulriah Jani, Wardah Tahir, Mazidah Mukri and Hamidah Mohd Saman
- 2) *Innovation: IIDEX2017 - Invention, Innovation & Design Exposition 'Innovate to Inspire':* Paper 2 - Automatic Easy System to Calculate Student Learning Time (SLT) by Mazidah Mukri, Hamidah Mohd Saman, Janmaizatulriah Jani, Che Maznah Mat Isa and Wardah Tahir
- 3) *Innovation: OLI+S ELETEM Decision Model for Construction Companies in International Markets*. Melaka International Intellectual Exposition Dewan Taming Sari, UiTM Alor Gajah, Melaka. 7-8 December 2016. Best Commercial Value Award and Gold Award for Professional Category.
- 4) *Innovation: Development of Model on Success Factor Influencing Construction Projects in Penang*. Melaka International Intellectual Exposition Dewan Taming Sari, UiTM Alor Gajah, Melaka. 7-8 December 2016. Gold Award for University Student Category.
- 5) *A Three-stage Approach toward Development of An Integrated Model for ELETEM Decisions for Malaysian Construction Firms in International Markets* **Che Maznah Mat Isa**, Christopher Nigel Preece and Hamidah Mohd Saman International Business Innovation, Invention and Design

(IBIID2016), 1-3 March 2016, Dewan Sri Budiman, UiTM, Shah Alam. Diamond Award for University Student Category.

CONFERENCES/WORKSHOP

2017

- 1) "Direct and Explicit Measurements", FEIC2017-International Conference on Engineering Education and Research 2017, Madinah, Kingdom of Saudi Arabia, 16-18 December 2017
- 2) "Factors Influencing Internationalization of Malaysian Construction Firms", ICOFA2017, International Conference on Future ASEAN: Leveraging Excellence, 15-16 August 2017, UiTM Perlis.
- 3) "Entry Timing Strategy by Malaysian Construction Firms in International Markets: Rasch Model Analysis", 4th International Civil and Infrastructure Engineering Conference (InCIEC2017), 7th to 8th of August 2017, Grasia Hotel, Semarang, Indonesia.

2016

- 1) The 8th International Conference on University Learning and Teaching (INCULT2016). Assessment of Graduate Attributes for Engineering Program Continual Quality Improvement by Wardah Tahir, **Che Maznah Mat Isa**, Janmaizatulriah Jani, Hamidah Mohd Saman & Mazidah Mukri. 29th Nov – 01 Dec, 2016 in Krabi, Thailand.
- 2) The 3rd International Conference on Science, Engineering, Built Environment, and Social Science (ICSEBS2016), 29 November – 01 December 2016.
- 3) *Factors Influencing Malaysian Construction Firms Entry Mode Decisions into International Markets* by **Che Maznah Mat Isa**, Christopher Nigel Preece, Hamidah Mohd Saman and Che Khairil Che Ibrahim. ARCOM Conference (Indexed Conference), September 2016, Manchester United Kingdom.
- 4) *Preferences for Information Delivery in Using Smart Meter by Energy Customers in Malaysia* by **Che Maznah Mat Isa**, Siti Laila Sri Asih S Garieb, Siti Rashidah Mohd Nasir, Halilah Haron, Rohana Hassan and Marina Yusoff. CEPIS2016: Conference of The Electric Power Supply Industry. Bangkok, Thailand. Accepted and will be presented 27 October 2016.
- 5) *Towards BIM Enabled Sustainable Urban Developments In The UAE*. Christopher Nigel Preece, Muhammad Tariq Shafiq, Zubair Imam Syed, **Che Maznah Mat Isa**. Accepted and presented in Sustainable Built Environment (SBE16-Cairo 2016). 29 November – 01 December 2016.

2015

- 1) *Determining Significant Factors Influencing Malaysian Construction Firms' Performance in International Markets* by **Che Maznah Mat Isa**, Hamidah Mohd Saman and Christopher Preece, Journal of Construction and Developing Countries. Volume 20, No. 2, 2015.
- 2) *Development of Foreign Competitor Identification Index (FCII) in Malaysia* by Ab Rani, Nur Izzati; **Isa, Che Maznah Mat**; Preece, Christopher Nigel Preece. Journal of Information Management and Business Review, Volume 7 (1), 2015. pp12-22. International Foundation for Research and Development.
- 3) *International Market Entry Mode Factors Using Rasch Model* by **Che Maznah Mat Isa**, Hamidah Mohd Saman, Christopher Nigel Preece. Fourth Abu Dhabi University Annual Research Conference (4th ADU-ARC), 26 November 2015.

2014

- 1) *Factors Influencing Entry Location and Timing Decision (ELTD): Towards the Development of Integrated Decision Model* by **Che Maznah Mat Isa**, Hamidah Mohd and Christopher Nigel Preece. Journal of Construction, Economics and Building. 2014 (Vol 3), 34-57. (Q2)
 - a. Cited by Odediran, S. and Windapo, A. (2016). "Mitigating Risks in African Construction Markets through the Interactive Behavior of Resources and Capabilities in Multinational

- Construction Companies and Entry Decisions." J. Manage. Eng., 10.1061/(ASCE)ME.1943-5479.0000485 , 04016040.*
- 2) *Strategies for International Market Expansion: Strength, Weakness, Opportunity and Threat (SWOT) Attributes of Malaysian Construction Firms* by **Che Maznah Mat Isa**, Hamidah Mohd Saman and Christopher Nigel Preece. Jurnal Intelek, UiTM. Published: Jurnal Intelek (2014) Vol 9, No 1, 69-78.
 - 3) *International Market Entry Mode Choices by Malaysian Construction Firms using Multinomial Logistic Regression Model* by **Che Maznah Mat Isa**, Hamidah Mohd Saman, Siti Rashidah Mohd Nasir and Christopher Nigel Preece. UiTM ESTEEM Academic Journal, Vol. 10, No. 1, June 2014, 1-21.
 - a. Cited by: (1) Muhammad Fawaiq, *Analisis Moda Entry Penyedia Jasa Ritel Indonesia ke ASEAN: Studi Kasus Pada Al Famart/Analysis on Indonesian Retail Services Entry Mode into ASEAN: A Case Study on Alfamart*, Buletin Ilmiah Litbang Perdagangan. Vol.9, No. 1, Juli 2015 : 25-43
 - b. (2) Yasmeen and Viswanathan: *Entry Mode of Firms in an Emerging Economy: Evidence from Malaysia*, International Journal of Economics and Financial Issues | Vol 6 • Issue 2 • 2016
 - 4) *Using PLS-SEM path modelling for factors influencing performance of Malaysian construction firms in international markets* by **Che Maznah Mat Isa**, Hamidah Mohd Saman, Siti Rashidah Mohd Nasir, Christopher Nigel Preece and Nur Izzati Abd. Rani. Indexed conference proceedings– published by Springer as chapter in book – Chapter 11 – page 121. Presented at Civil and Infrastructural Engineering Conference, (InCIEC2014) Kota Kinabalu, Sabah, 29 Sept 2014.
 - 5) *Identification of Malaysian Contractors with Sustained International Operations (CSIO)* by **Che Maznah Mat Isa**, Nur Izzati Abd. Rani, Christopher Nigel Preece and Hamidah Mohd Saman, Indexed conference proceedings – published by Springer as chapter in book – Chapter 25 – page 287. Presented: 29 Sept 2014 at Civil and Infrastructural Engineering Conference, (InCIEC2014) Kota Kinabalu, Sabah.
 - 6) *Using PLS-SEM Technique to Model Malaysian Construction Firms' Entry Timing Decisions in International Market Expansion* by **Che Maznah Mat Isa**, Hamidah Mohd Saman, Siti Rashidah Mohd Nasir and Aini Jaapar. Indexed Conference, IEEE. 978-1-4799-3703-5@2014 IEEE pp 123-128. Presented: 27-29 May 2014@ International Symposium for Technology Management ISTMET2014, Bandung, Indonesia.
 - 7) *Advantages and Disadvantages of the Entry Timing Choices in International Market Expansion by Malaysian Construction Firms* by **Che Maznah Mat Isa**, Hamidah Mohd Saman, Siti Rashidah Mohd Nasir and Aini Jaapar. Annual Conference on Civil Engineering and Engineering, ACEE2014, 14 - 16 Mar 2014, Phuket, Thailand.
 - 8) *Linking Entry Timing (ET) to Entry Mode (EM) Decisions in International Market Expansion by Malaysian Construction Firms: Towards the Development of ETEM Model* by **Che Maznah Mat Isa**, Hamidah Mohd Saman, Siti Rashidah Mohd Nasir and Aini Jaapar. Published by Springer in Proceedings of the 1st AAGBS International Conference on Business Management 2014. Presented: 6-8 April 2014 AiCOMB2014, Hard Rock Hotel, P. Pinang.
 - 9) *Dynamic Factors for Entry Mode Choices by Malaysian Construction Firms Into International Market Using Principal Axis Factoring Analysis* by **Che Maznah Mat Isa**, Hamidah Mohd Saman, Siti Rashidah Mohd Nasir and Aini Jaapar. Indexed conference. Published under IEEE. Presented: 6-8 April, 2014, Colloquium on Humanities, Science and Engineering Research (CHUSER 2014), Pulau Pinang.

2013

- 1) *Factors for Entry Timing Choices Using Principal Axis Factorial Analysis and Logistic Regression Model* by **Che Maznah Mat Isa**, Hamidah Mohd Saman, Siti Rashidah Mohd Nasir & Aini Jaapar. International Journal of Mechanical, Industrial Science and Engineering Published: Vol. 7, No 12, 2013, 1387-1397. Presented: 30-31 Dec. 2013 @ International Conference on Economics, Management of Business, Innovation and Technology (ICEMBIT2013), Paris, France.
- 2) *Motives for International Market Expansion by Malaysian Construction Firms using Correlation Analysis* by **Che Maznah Mat Isa**, Hamidah Mohd Saman, Siti Rashidah Mohd Nasir and Aini Jaapar. Proceedings of the 1st International Conference on Research Methodology for Built Environment and Engineering, Kuala Lumpur, Malaysia, 17-18 December 2013.
- 3) *Strength, Weakness, Opportunity and Threat (SWOT) Attributes of Malaysian Construction Firms in International Markets* by **Che Maznah Mat Isa**, Hamidah Mohd Saman, Siti Rashidah Mohd Nasir & Aini Jaapar. Published by Springer as Book Chapter No. 74, pp 861-870. Presented: 22-24 Sept, 2013. International Civil and Infrastructural Engineering Conference (InCIEC2013). Kuching, Sarawak.
- 4) *Application of Automation Technology in Malaysian Construction Industry*: Siti Rashidah Mohd Nasir and **Che Maznah Mat Isa**, IEEE Conference InCIE2013 – Kuching, Sarawak. 22-25 Sept. 2013:
- 5) *Specific-factors influencing market selection decision by Malaysian construction firms into international markets* by **Che Maznah Mat Isa**, Hamidah Mohd Saman and Siti Rashidah Mohd Nasir. Published by Elsevier in Procedia - Social and Behavioral Sciences 129 (2014) pp 4 – 10. Presented: 22 - 23 Sept 2013@ International Conference on Innovation, Management and Technology Research, ICIMTR2013, Melaka. Cited by: Yasmeen and Viswanathan: Entry Mode of Firms in an Emerging Economy: Evidence from Malaysia, International Journal of Economics and Financial Issues | Vol 6 • Issue 2 • 2016
- 6) *Acquiring Late Mover Advantages (LMAs) by Malaysian Construction Firms in International Market*: **Che Maznah Mat Isa**, Hamidah Mohd Saman, Siti Rashidah Mohd Nasir and Aini Jaapar SHUSER2013 IEEE Conference in Pulau Pinang. 24-25 June 2013.
- 7) *Dynamic Factors Affecting Entry Location Decision by Malaysian Construction Firms in International Market*: **Che Maznah Mat Isa**, Aishah Idris, Nor Hazwani Abd Rahman, Hamidah Mohd Saman & Siti Rashidah Mohd Nasir. International Post Graduate Seminar 2013, Faculty of Civil Engineering, UiTM, Shah Alam. 26 June 2013.
- 8) *OBE Guidelines for EC220 – Degree in Civil Engineering Programme*

2012

- 1) *Specific-factors Influencing Late Movers' Entry Timing Decision Into International Markets* by **Che Maznah Mat Isa**, Hamidah Mohd Saman and Siti Rashidah Mohd Nasir Published by IEEE
 - a. 978-1-4673-4617-7/12 ©2012 IEEE. pp 304-309 Presented: 3-4 Dec. 2012 @ IEEE Colloquium on Humanities, Science & Engineering Research (CHUSER 2012), Kota Kinabalu, Sabah, Malaysia.
- 2) *Factors Influencing Malaysian Construction Firms in Venturing into International Markets*: **Che Maznah Mat Isa**, Nur Kamaliah Mustafa, Hamidah Mohd Saman, Siti Rashidah Mohd Nasir and Che Khairil Izam Che Ibrahim. Published by IEEE. 978-1-4673-0654-6/12©2012 IEEE. pp 168-173. Presented on 21-22 May, 2012 @ International Conference on Innovation, Management and Technology Research, ICIMTR 2012, Malacca

- 3) *Determinants for Entry Mode Decision by Malaysian Construction Firms in International Market* by **Che Maznah Mat Isa**, Hamidah Mohd Saman, Siti Rashidah Mohd Nasir , Nor Hazwani Abd Rahman, National Post Graduate Seminar 2012, UiTM Shah Alam.16-18 Aug 2013.
- 4) *Determinants for Entry Timing Decision by Malaysian Construction Firms in International Market* by **Che Maznah Mat Isa**, Hamidah Mohd Saman, Siti Rashidah Mohd Nasir , Nor Hazwani Abd Rahman National Post Graduate Seminar 2012, UiTM Shah Alam. 16 – 18 Aug 2012.
- 5) *OBE Implementation and Assessment for Integrated Design Project (IDP) Course* at the Faculty of Civil Engineering, UiTM, Shah Alam: A Practical Approach by **Che Maznah Mat Isa**, Wardah Tahir, Abd Halim Abd Ghani, Juraidah Ahmad, Hamidah Mohd Saman and Zakiah Ahmad. UiTM, OBE Conference, Bayview Hotel, Langkawi
- 6) *OBE Assessment Guidelines for EC220 Programme* Faculty of Civil Engineering, UiTM, Shah Alam. **Che Maznah**, Wardah Tahir, Hamidah Mohd Saman Sept 2012, First Edition.
- 7) *Entry Mode and Entry Timing Strategic Decisions by Malaysian Construction Firms in International Market* by **Che Maznah Mat Isa**, Hamidah Mohd Saman and Siti Rashidah Mohd Nasir. AEC2012 : ASEAN Entrepreneur Conference, Sunway Resort. 5-6 Nov. 2012:

2011

- 1) International Construction Business and Management Symposium (ICBMS2011), “Timing of Entry by Malaysian Construction Firms into the International Construction Market”

2009

- 1) *2nd Construction Industry Research Achievement International Conference (CIRAIC2009)*, “Mode of Entry into International Construction Contracts: Views from Malaysian Construction”. Che Khairil Izam Che Ibrahim, Aminuddin Mohd Baki, Che Maznah Mat Isa, Intan Rohani Endut and Mohd Khairolden Ghani. CREAM, UiTM, UM and CIDB Legend Hotel 03 November 2009.

2008

- 1) Proceedings of The International Seminar of Civil Engineering and Infrastructure (ISCIE 2008), Faculty of Civil Engineering, Universiti Teknologi MARA, Shah Alam, Selangor
- 2) Improvement of Students’ Soft-Skills Through University-Industry Collaborations, Aminuddin Baki, Mohd, Azman Yahaya, Siti Hawa Hamzah, Che Maznah Mat Isa, Raenah Md Sem, Roslina Abdul Rahim, Azizan Hawa Hassan and Shahinaz Abd Rahim, 7th WSEAS International Conference on Education and Educational Technology (EDU’08).

2007

- 1) Exploring Global Construction Opportunities by Malaysian Companies: Entry Strategies
- 2) Soft skills development through university industry collaborations, Aminuddin Baki, Mohd, Azman Yahaya, Siti Hawa Hamzah, Che Maznah Mat Isa, Shahinaz Abd Rahim, Proceedings of the Regional Conference on Engineering Education, Johor Bahru, 3-5 December 2007.

2006

- 1) Proceeding: “Malaysian Factors Affecting Entry Decision by Malaysian Construction Companies into the International Market”. 5th Annual Conference on Management in Construction Researchers Association (MICRA 2006)
- 2) Proceedings of The International Seminar of Civil Engineering and Infrastructure (ISCIE 2006), Annexe Hall, Universiti Teknologi MARA, Shah Alam, Selangor :13-14 June 2006 “Malaysian Contractors’ Current Position And Opportunities In Overseas Market”
- 3) Proceedings of the International Conference in Built Environment in the 21st Century (ICiBE2006), Renaissance Hotel, Kuala Lumpur, Malaysia, 13-15 June 2006, “Malaysian Contractors’ Opinion towards International Market Expansion”

- 4) Proceedings of The International Seminar of Civil Engineering and Infrastructure (ISCIE 2006), Annexe Hall, Universiti Teknologi MARA, Shah Alam, Selangor :13-14 June 2006 : "Contributing Factors Towards Effective Coordination In Managing Projects".
- 5) Proceedings of the 5th Annual Conference on Management in Construction Researchers Association (MICRA 2006) Kulliyah of Architecture and Environmental Design, International Islamic University, Malaysia : 20-21 June 2006: "International Market Expansion by Malaysian Contractors: Early Preparatory Works"

2005

- 1) Proceedings of National Conference. "The Awareness of Risk Management Efforts and Current Practices of Class A and Grade 7 Contractors in the Malaysian Construction Industry": di Hotel Primula, Kuala Terengganu. Jun 2005 di CSSR05.

2004

- 1) Proceedings of National Conference 'Contributing Factors to Road Accidents in UiTM, Shah Alam Campus" di Hotel Pan Pacific Glenmarie, Shah Alam : **ISSN No: 1823-2868**

2003

- 1) Proceedings of International Conference "Critical Success Factors in Penetrating China's Construction Market by Malaysian Contractors" Engineering and Technology Conference 2003 (Entech 2003) di Crowne Plaza Riverside, Kuching, Sarawak (30 Jul - 1Ogos 2003) **ISBN:983-9257-34-X**
- 2) Structural Mechanics – Textbook (**ISBN No: 983-70-1057-6**)
- 3) Proceedings of International Conference: "Identification of Major Risks in Design and Build Projects in Malaysia" International Conference on Construction Technology (Contec 2003) di Shangri-La's, Tanjung Aru Resort, Kota Kinabalu, Sabah. (13-15 Okt 2003)

2002

- 1) Proceedings of International Conference "Challenges and Difficulties in China Construction Project For Malaysian Contractors" telah dibentangkan di: The 2nd World Engineering Congress, Kucing. Sarawak (22-25 Jul 2002) **ISBN:967-960-145-5.**
- 2) Proceedings of International Conference "Opportunities in China Construction Project for Malaysian Contractors" Ministry of Settlement and Regional Infrastructure, Indonesia. Advancement in Design, Construction, Construction Management and Maintenance of Building Structures – Bali, Indonesia (27-28 Mac 2002) **ISBN 979-8954-21-1**
- 3) Proceedings of International Conference at The 2nd World Conference in Concrete Materials and Structures bertajuk ""Early Preparations by Malaysian Contractors in Doing Business in China" (14-16 Mei 2002) **ISBN: 983-9414-33-X**
- 4) Proceedings of International Conference "International Market Penetration by Malaysian Contractors: Opportunities, Challenges and Strategies di Hotel Concorde, Shah Alam. Faculty of Business Management, UiTM and University of Auckland, New Zealand (21-22 Januari 2002)

2001

- 1) Proceedings of International Conference "Risk Management Awareness in the Malaysian Construction Industry" Alkon Institute for Training and Development, Surabaya, Indonesia dan School of Management, Universiti Utara Malaysia (5 Mei 2001) **ISBN:983-2078-16-4**
- 2) Proceedings of National Conference "Penggunaan Konkrit Struktur di dalam Sektor Pembinaan di Malaysia" di IMM, Pulau Besar, Melaka 29-1 August 2001

2000

- 1) Proceedings of National Conference "Human Resource Management in the Malaysian Construction Industry" di MINES Resort, Seri Kembangan 14 September 2000
- 2) Proceedings of National Conference "Perception of Risk Management in Klang Valley", MINES Resort, Seri Kembangan: 14 September 2000.

LESSON PLAN
FACULTY OF CIVIL ENGINEERING, UNIVERSITI TEKNOLOGI MARA
&
VELTECH DR.RR & DR.SR UNIVERSITY
400 FEET OUTER RING ROAD, AVADI, CHENNAI-600 062, TAMIL NADU, INDIA
Collaboration in implementation of CDIO in teaching and learning

Programme	EC 220 : BACHELOR OF ENGINEERING (HONS.) CIVIL				
Course	ECS 435/ : ENGINEERING MATERIALS ECM426				
Lecturer	PROF. DR. HAMIDAH MOHD. SAMAN				
Room	T1-A17-6A	Phone	+6 03 55436432	Email	hamid929@salam.uitm.edu.my

Group	Day	Time	Room
	5 DAYS	9.00 a.m to 5.00 p.m	

WEEK	CONTENT/TOPICS COVERED	ENGINEERING ACTIVITIES	LEARNING OUTCOME (LO)	
Day 1 (7 hours)	INTRODUCTION TO CONCRETE TECHNOLOGY AND INGREDIENTS	<u>Lecture, Laboratory Demonstration and problem solving activities</u> The students are given two(2) samples of admixtures (can be accelerator, water reducing agent) or two(2) samples of unknown source of water. The students are given cement and are required to mix the cement with the admixtures/unknown source of water and conduct the experiment to report the influence of using admixtures/unknown source of water in terms of initial and final setting time test. The students are also required to present and explain the observations and reasoning (by providing the references to support) The students are required to test and present their results on Day 3	At the end of the lesson, students should have knowledge and able to: 1. explain the basic science and engineering fundamentals related to roles of each ingredients in concrete. 2. Describe the types of water and admixture, its properties, functions and application in concrete construction. 3. Compare and contrast the functions different types of admixtures. 4. Exemplify the quality control of constituents of concrete materials.	<u>Level of Complexity I</u> Activity: I-O Structured known solution Small team Duration : 3 days

Day 2 (7 hours)	PROPERTIES OF FRESH AND HARDENED CONCRETE - Properties of fresh and hardened concrete - Factor affecting properties of fresh and hardened concrete - Influence of technical factors - Non Destructive Test (NDT) & Destructive Test (DT)	Lectures, Group Discussion and Concept Questions Concept Questions : Question 1 Discuss how the constituents of concrete affect the strength of the hardened concrete. Question 2 State the different types of curing regime for concrete. Discuss how curing regime affect the strength development of concrete. Question 3 How the properties of concrete can be determined using new technique/technology? Demonstration of monitoring concrete quality using Non-Destructive and Destructive Techniques	At the end of the lesson, students should be able to : - define the properties of fresh and hardened concrete. - identify appropriate level of technology and modern tools in determining the properties of fresh and hardened concrete - identify advantages, disadvantages and limitation/risk of selecting the appropriate measurement/tools/methods for concrete quality control.	
Day 3 (7 hours)	MIX CONCRETE DESIGN (NORMAL ACCORDING TO BRITISH AND DOE METHOD)	Lectures, and problem solving activities Students are given 1 or 2 specifications and restriction conditions. The restriction conditions are such as environmental, cost and sustainability issues, early strength or workability (range of conflicting). The students are required to formulate and propose mix concrete that fulfill the specifications and the restriction conditions. The testing will be done in Day 5. Presentation of Activities done in Day 1 Students (in group) are asked to do the homework for Day 4:	At the end of the lesson, students should be able to : - formulate mix concrete design based on design requirements. - identify different process of mix design for particular development projects (infrastructure, structure, sub-structure, super structure, different environmental conditions. - propose and justify an innovative mix design concrete using waste materials. - evaluate the performance of proposed mix design concrete and make comparison with other groups.	<u>Level of Complexity III</u> Activity: D-I-O Structured Unknown solution Small team 3 days -duration

		Prepare plain ice cubes and ice cubes but incorporating the following materials : - Shredded newspaper - Shredded plastic mineral bottles - Shredded rubber crumb - Other materials are also acceptable.		<u>Level of Complexity I</u> Activity: I-O Structured known solution Small team Duration : 1 day
Day 4 (3 hours)	MIX DESIGN OF HIGH STRENGTH AND SPECIAL CONCRETE - High Strength Concrete - Fibre Reinforced Concrete - Lightweight concrete	Active Learning - Each group will drop their ice cubes. Share and record observations. Discuss the inferences of the observations of plain and modified ice cubes. - Students (in group) are required to design a cement-based frisbee that will fulfil the following criteria : - Light - Strong - Economic Each group requires to present the design concept (conceive & design), selection of materials and demonstrate (implement) in order for a frisbee to function well as a frisbee (operate).	At the end of the session, students will : - have knowledge and explain the basic science and engineering fundamental properties of concrete - conduct quantitative analysis of mix design to fulfil special performance. - Conduct quantitative analysis of alternative mix design methods.	<u>Level of Complexity IV</u> C-D-I-O Unstructured Unknown solution Small team 3 days-duration
Day 5& 6 (7 hours)		Testing and Presentation of Activities Day 3 and Day 4		

123
16/11/17
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16/11/17

Veltech Dr.RR & Dr.SR University
(Estd. u/s 3 of UGC Act, 1956)

Office of International Programmes
Visiting Professor Programmes

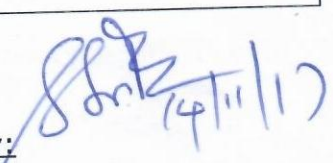
123
24/11/17

Details of Professor & Course:

Name of the Professor	Prof. Dr. Hamidah Mohd. Saman (Profile Attached)
University & Country	Universiti Teknologi Mara (UITM), Malaysia
Title of the Course	Concrete Technology and Material Engineering
Department	Civil Engineering
Dates of the Course	15 to 22 February, 2018
Total No. of Hours	30
No. of Credits	2
Course Contents	List Attached

Prepared by: 

Coordinator – Office of Intl. Pgms

Forwarded by: 

Director – Office of Intl. Pgms

5. Supriah
HoD


Dean School of Mechanical & Construction
Veltech Dr.RR & Dr.SR University
(Estd. u/s 3 of UGC Act, 1956)


Director (Academic)

Prof. Dr. techn. Koteswara Rao Anne
Director Academics

Vice Chancellor

Vel Tech
Ranganathan Dr. Sagunthala
R&D Institute of Science and Technology
(Estd. u/s 3 of UGC Act, 1956)



Vel Tech

Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

UITEM.
IR 177

Dec.
22-Nov-2017

Date:

Our Ref. No: VTU/Civil/Short Term Course/ 2017-18(Even) /

Your Ref. No:

DA/4911
29/12/17

Dr. E. B. Perumal Pillai
Professor & Head.

To:

The Director Academics,
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,

Sir,

Sub: Short Term Course on Concrete Technology and Material Engg- Reg

Prof. Dr. Hamidah from University Teknologi Mara(UITM), Malaysia is visiting our University to offer a short term course on "Advanced Concrete Technology and Material Engineering" for the students of Department of Civil Engineering. She is visiting the University during Feb 15 – 22, 2018. The course content provided by Dr. Hamidah Mishra suits our current III year students. The course offered by the visiting professor is titled as "Concrete Technology and Material Engineering" which is not a regular course for the present III year students. The content provided will provide significant information about concrete technology with CDIO.

Details about the short term course:

Subject name : Advanced Concrete Technology and Material Engineering

Visiting Professor : Prof. Dr. Hamidah

University : University Teknologi Mara(UITM), Malaysia

Credits for the course : 2

Total No. of hours : 30

Duration : Feb 15 – 22, 2018.

808
22/12/17

HOD / CIVIL

Prof. Dr. Koteswara Rao Anne
Director Academics

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

400 Feet Outer Ring Road, Avadi,
Chennai-600 062, Tamil Nadu, India.
Landline : +044 33870055
Email : vtu@veltechuniv.edu.in

Department of Civil Engineering and Centre for International Relations
 in collaboration with Universiti Teknologi MARA (UITM), Malaysia organizing
 Visiting Professor Programme

ATTENDANCE SHEET

Course Code & Course Name: 1157CE912 - Concrete Technology and Material Engineering
 Duration: 5 days (27th – 31st August 2018)
 Credits: 2 (30 Hours)

S.No	Name of the Student	VTU No.	II / III / IV Year	27 th August			28 th August			29 th August			30 th August			31 st August			Total Hours (30)	% of Attendance
				FN (2)	EN (2)	AN (2)	FN (2)	EN (2)	AN (2)	FN (2)	EN (2)	AN (2)	FN (2)	EN (2)	AN (2)	FN (2)	EN (2)	AN (2)		
1.	H.KISHORE	6462	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	100	
2.	DZIESEVOZO TSUKRU	10802	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	100	
3.	KADIRI RIDWAN OLAJIDE	10840	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	100	
4.	ARNAB MONDAL	10847	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	100	
5.	MOASUNE LONCKUMER	10801	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	100	
6.	TOKASHE YEPTHOMI	10800	II	P	P	P	A	A	A	P	P	P	P	P	P	P	P	24	80	
7.	KARTHIK RAJ.M	10646	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	100	
8.	SHAKTHIVEI.K	8722	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	100	
9.	PRATHEEPRAJ.M	8873	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	100	
10.	IKRAM JAVID	9347	II	A	A	A	P	P	P	P	P	P	P	P	A	A	P	24	80	
11.	MANISH BHAGAT	10707	II	P	P	P	P	P	P	P	P	P	P	P	A	A	P	26	87	
12.	LEELA DHAR MISHRA	10916	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	100	

S.No	Name of the Student	VTU No.	II / III / IV Year	27 th August		28 th August		29 th August		30 th August		31 st August		Total Hours (30)	% of Attendance
				FN (2)	AN (2)	FN (2)	AN (2)	FN (2)	AN (2)	FN (2)	AN (2)	FN (2)	AN (2)		
				P	P	P	P	P	P	P	P	P	P		
13.	GAURAV	10763	II	P	P	P	P	P	P	P	P	P	P	30	100
14.	SHASHIKESH KUMAR	10529	II	P	P	P	P	P	P	P	P	P	P	30	100
15.	T.SUDHEER KUMAR REDDY	9490	II	P	P	P	P	P	P	P	P	P	P	30	100
16.	RAHUL VATS	10487	II	P	P	P	P	P	P	P	P	P	P	30	100
17.	KESHAV KUMAR	10417	II	P	P	P	P	P	P	P	P	P	P	30	100
18.	AVIMANU KUMAR MAHATO	10887	II	P	P	P	P	P	P	P	P	P	P	30	100
19.	RAM PRABESH YADAV	10863	II	P	P	P	P	P	P	P	P	P	P	30	100
20.	JITEENDRA KUMAR MAHATO	10862	II	P	P	P	P	P	P	P	P	P	P	30	100
21.	AJAY YADAV	10853	II	P	P	P	P	P	P	P	P	P	P	30	100
22.	MDIMTAZ ALAM	10813	II	P	P	P	P	P	P	P	P	P	P	30	100
23.	MANI KANTA.T	10722	II	P	P	P	P	P	P	P	P	P	P	30	100
24.	KORUPROLU PRAVEEN	9142	II	P	P	P	P	P	P	P	P	P	P	30	100
25.	MHEMANTH	9141	II	P	P	P	P	P	P	P	P	P	P	30	100
26.	SK.MOULALI	9033	II	P	P	P	P	P	P	P	P	P	P	30	100
27.	K.RAHUL	9688	II	P	P	P	P	P	P	P	P	P	P	30	100
28.	ALURI ASHOK REDDY	9222	II	P	P	P	P	P	P	P	P	P	P	30	100
29.	EASAM SANDEEP KUMAR	9059	II	P	P	P	P	P	P	P	P	P	P	28	93
30.	V.AKASH	9073	II	P	P	P	P	P	P	P	P	P	P	28	93
31.	PSAI TEJA	9062	II	P	P	P	P	P	P	P	P	P	P	28	93
32.	T.UDAY KIRAN	9043	II	P	P	P	P	P	P	P	P	P	P	30	100
33.	ASAI VIGNAN	10416	II	P	P	P	P	P	P	P	P	P	P	30	100
34.	PODISHETTI VISHNU GOUD	9693	II	P	P	P	P	P	P	P	P	P	P	28	93
35.	DASARI ARAVIND	10408	II	P	P	P	P	P	P	P	P	P	P	30	100
36.	KUNDAN KUMAR DAS	2175	II (P.G)	P	P	P	P	P	P	P	P	P	P	30	100

Timing: FN: 08.30 AM – 10.30 AM and 10.45 AM – 12.45 PM; AN: 01.45 PM – 03.45 PM

Note: All the registered students of this course are having more than 75% of attendance and hence all are eligible for End Semester Examination.

M. S. Lakshmi

Coordinator Engg.

22/8/2023

SNo	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_PassFail	Stu_Grade
1	VtU10408	DASARI ARAVIND	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	C
2	VtU10763	GAURAV	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	C
3	VtU10416	ARROJU SAI VIGNAN	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	B
4	VtU9062	P.SAI TEJA	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	B
5	VtU9073	V AKASH	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	C
6	VtU10417	KESHAV KUMAR	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	C
7	VtU9490	THAMATAM SUDHEER KUMAR REDDY	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	B
8	VtU10722	MANIKANTA	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	B
9	VtU9033	SK.MOULALI	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	B
10	VtU9043	T UDAY KIRAN	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	C
11	VtU9059	E.SANDEEP KUMAR	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	B
12	VtU9141	MANEPALLI HEMANTH	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	B
13	VtU9142	KORUPROLU PRAVEEN	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	C
14	VtU9222	ALURI ASHOK REDDY	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	B
15	VtU9347	IKRAM JAVID.K	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	C
16	VtU10887	AVIMANU KUMAR MAHATO	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	B
17	VtU10800	TOKASHE K YEPTHOMI	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	B
18	VtU10801	MOASUNEER R LONGKUMAR	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	D
19	VtU10802	D ZIESEVOZO TSUKRU	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	B
20	VtU10813	MD IMTIAZ ALAM	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	B
21	VtU10840	KADIRI RIDWAN OLAJIDE	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	B
22	VtU10847	ARNAB MONDAL	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	A
23	VtU10916	LEELA DHAR MISHRA	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	A
24	VtU10487	RAHUL VATS	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	B
25	VtU10529	SHASHIKESH KUMAR	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	B
26	VtU10707	MANISH BHAGAT	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	B
27	VtU10646	KARTHIK RAJ M	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	C
28	VtU8873	PRATHEEP RAJ	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	B
29	VtU9688	K.RAHUL	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	A
30	VtU9693	PODISHETTI VISHNU GOUD	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	C
31	VtU10862	JITENDRA KUMAR MAHATO	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	A
32	VtU10863	RAM PRABESH YADAV	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	B
33	VTU6462	KISHORE H	B.Tech	CIVIL	1157CE912	Concrete Technology and Material Engineering	Pass	B
34	VtU8722	K.SHAKTJIVEL	B.Tech	CIVIL(CIVIONICS)	1157CE912	Concrete Technology and Material Engineering	Pass	C



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Est. as per UGC Act, 1956)

IR-177

Our Ref. No: 2018-2019 /VF 48

Your Ref. No:

Submitted for the Approval:

Name of the Professor: Prof. Dr. Hamidah Mohd. Saman & Dr. Ir. Che Maznah Mat Isa

University & Country : Universiti Teknologi MARA (UiTM), Malaysia

Course Title : Concrete Technology and Material Engineering

Department : Civil Engineering

Students : 2017-2021, 34 Students
2015-2019- 1 Student
2017-2019- 1 Student (PG)

Training Program date: August 27-31, 2018

Sl. No	Description	Amount in MYR	Amount in INR
1	Course Honorarium (Net Amount & Tax Free) (30 Hour ^m)	3476	60000
4	Visa Charges (602 MYR x 2 Nos) (1MYR= 17.038 INR as on 21.08.2015) (To be reimbursed , Bill Enclosed)	1204	20513
	Total	4680	80513

(Rupees eighty thousand five hundred and thirteen only)

In this regard, I request your approval for transferring the amount in MYR to the following Account,

Name : Hamidah Mohd. Saman @ HJ. Mohammed

Account No: 12-177-02-000039-7

Bank name: Bank Islam Malaysia BERHAD

Branch: Universiti Teknologi MARA

Swift Code : BIMBMYKL

Thank You,

S. Sivaperumal

Director
International Relations

Rmld
14/9/2018

Entered in Budget Regis

PG 22, SI. 38

07/09/18

16/9



UNIVERSITI
TEKNOLOGI
MARA

Certificate of Completion

This is to certify that

SAYED YAKUB PASHA

has successfully completed the

**INTERNATIONAL STUDENT EXCHANGE
PROGRAMME**

SEMESTER SEPTEMBER 2019

At

**FACULTY OF CIVIL ENGINEERING
Universiti Teknologi MARA**

Organised by:

Office of International Affairs


DR. HAJAH ZAINAB HAJI MOHD NOOR

Director

Office of International Affairs





Our Reference : 600-FKA (PT 2/2/1)
Date : 16 June 2020

TO WHOM SO IT MAY CONCERN
Veltech Rangarajan Dr Sagunthala R &D
Institute of Science and Technology,
Veltech Road, Avadi, Chennai- 600062

Dear Sir/Mdm,

SUBMISSION OF RESULTS FOR COURSE TAKEN BY VELTECH RANGARAJAN DR SAGUNTHALA R &D INSTITUTE OF SCIENCE AND TECHNOLOGY, STUDENTS IN THE FACULTY OF CIVIL ENGINEERING, UNIVERSITI TEKNOLOGI MARA

We are pleased to inform that one students from your distinct university who have enrolled a course on research project in our faculty have successfully completed the course as detailed in the following table.

Student Name : SAI SAHITHI AJJARAPU

Student ID: 2019641632

Passport No : S4017275

Project Title: **Smart Home Features Towards Green Environment And Sustainability**

No	Course Name	Course Code	Marks	Grade
1	Final Year Project 1	ECC577	72	B+
2	Final Year Project 2	ECC588	70	B+

We would like to express our congratulations to the students on the successful completion of the study here, and wish all the best in their future undertakings. Thank you for choosing our institution as student mobility destination.

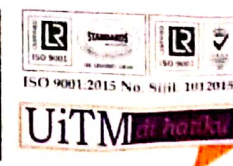
Best Regards


PROF DR ZAKIAH AHMAD
Dean

cc. Dr Amnorzahira Amir
Liaison Officer Office of International Affairs

Dr. Mohd Amizan Mohamed @ Arifin
Final Year Project Coordinator

Kompleks Kejuruteraan
Universiti Teknologi MARA
40450 Shah Alam, Selangor, MALAYSIA
Tel: (+603) 5544 3311 (Pejabat Dekan)
Tel: (+603) 5543 5267 / 5294 (Pentadbiran)
Tel: (+603) 5543 6165 / 6157 / 5211 (Akademik)
Faks: (+603) 5543 5275
E-mel: dekanfka@uitm.edu.my





BONAFIDE CERTIFICATE

Certified that this Report titled "SMART HOME FEATURES TOWARDS GREEN ENVIRONMENT AND SUSTAINABILITY" is the bonafide work of A. SAI SAHITHI (2019641632), who carried out the major project work under my supervision. Certified further that to the best of my knowledge the major project reported work does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

Dr. Ir. Che Maznah Mat Isa (P.Eng)

Pensyarah Kanan

Facultty Kejuruteraan Awam

Universiti Teknologi MARA

SHAH ALAM, SELANGOR MALAYSIA

Dr. Ir. Che Maznah Mat Isa

Associate Professor,

Faculty of Civil Engineering,

Universiti Teknologi MARA,

Shah Alam, Selangor,

Malaysia.



UNIVERSITI
TEKNOLOGI
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Certificate of Completion

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SAI SAHITHI AJJARAPU

has successfully completed the

**INTERNATIONAL STUDENT EXCHANGE
PROGRAMME**

SEMESTER SEPTEMBER 2019

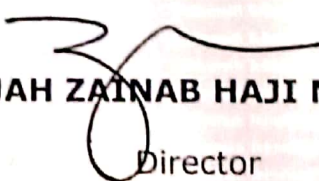
At

FACULTY OF CIVIL ENGINEERING

Universiti Teknologi MARA

Organised by:

Office of International Affairs


DR. HAJAH ZAINAB HAJI MOHD NOOR

Director

Office of International Affairs

