

CURRICULUM VITAE



A. Personal Details

1. Nama : RENGA RAO A/L KRISHNAMOORTHY
2. Current Employment Status: Senior Lecturer and Researcher
Faculty of Civil Engineering ,Universiti Teknologi Mara (UiTM)
(2004 - Current)
3. Citizenship : Malaysian

B. Academic Qualification:

- 2007-2011 PhD (Civil Engineering)
The University of Manchester, United Kingdom
- 2000 –2001 Master of Science (Structural Engineering)
Universiti Sains Malaysia (USM)
- 1997- 2000 Bachelor of Engineering (Hons) Civil Engineering
Universiti Sains Malaysia (USM)

C. Profesional Memberships

No	Membership	Year	Institution
1	Professional Engineer	2017	Board of Engineers Malaysia
2	Member	2018	Institute of Engineers Malaysia
3	Graduate Member	2009	American Society of Civil Engineers
4	Graduate Member	2009	Institute of Civil Engineers, UK
5	Graduate Member	2009	Fire Industry Association, UK
6	Associate Member	2012	Association of Fire Protection, Malaysia

D. Positions Previously Held

Bil	Nama Jawatan (Position)	Tahun (Year)	Organisasi/Majikan (Organization/Employer)
1.	Head of Technical Department	2001-2004	ATLANTIS STORMWATER SDN BHD
2.	Associate	2002-2004	PERUNDING AZMAN, OOI & RAO SDN BHD.

List of Projects worked with Perunding Azman,Ooi & Rao Sdn Bhd.

PROJECT	CLIENT	SCOPE	DATE	STATUS
Cadangan Membina dan Menyiapkan Asrama Universiti Tenaga Nasional Fasa II (UNITEN) di Muadzam Shah, Pahang	J & A Associates	Stormwater Management	February 2002	Completed
Merekabentuk, Membina, Menyiapkan, Menguji dan Pentauliahan Kerja-Kerja Pembangunan Kampus Tetap Kolej Universiti Teknologi Tun Hussein Onn (KUITTHO), Fasa 1 - Projek Komited	JKR / PHARSB -ECSB JV	Stormwater Management	August 2002	Completed
Merekabentuk, Membina, Menyiapkan, Menguji dan Pentauliahan Kerja-Kerja Pembangunan Kampus Tetap Kolej Universiti Teknologi Tun Hussein Onn (KUITTHO), Fasa 1 - Projek Komited	JKR / PHARSB -ECSB JV	Rainwater Harvesting System	August 2002	Completed
Cadangan Pembangunan Kampus Induk Universiti Industri Selangor (UNISEL) Berjantai Bestari diatas lot 1558, 1578 dan sebahagian lot 1559 Mukim Batang Berjantai, Daerah Kuala Selangor - 'Independent Water Supply System'	NAHRIM & Jana Niaga Sdn Bhd	Alternative Water Supply	November 2002	Proposal
Cadangan Membina dan Mentauliah Rumah Pam Lemal (Baru) berserta kerja-kerja berkaitan di Stesyen Pam Lemal untuk Lembaga Kemajuan Pertanian Kemubu (KADA)	Perunding KJL Sdn Bhd	Pumping Station	March 2003	Completed - Project KIV

PROJECT	CLIENT	SCOPE	DATE	STATUS
Supply & Install Rainwater Harvesting Cum Detention Storage System at DID HQ, KL and Masjid Bukit Indah Ampang	Jabatan Pengairan dan Saliran / NAHRIM	Rainwater Harvesting System	June 2003	Completed
Cadangan Membina dan Menyiapkan Kampus Tetap Kolej Pengurusan Bisness Universiti Tenaga Nasional (UNITEN) Fasa III di Muadzam Shah, Pahang	J & A Associates	Stormwater Management	July 2003	Completed
Cadangan Kerja Tanah, Jalan, Parit & Pemasangan Paip Air di atas Lot 1218, Mukim Hulu Langat, Selangor.	Sekilas Indah	Infrastructure	August 2003	Completed.
Cadangan Pembinaan Pejabat 7 Tkt. di atas Lot 9496, Jln. Dato' Bandar Tunggal Seremban.	Tenaga Nasional Berhad	Stormwater Management	October 2003	Completed
Merekabentuk, Membina, Menyiapkan, Menguji dan Pentauliahan Kerja-Kerja Pembangunan Kampus Tetap Kolej Universiti Teknologi Tun Hussein Onn (KUITTHO), Batu Pahat, Johor - 1,000 unit Hostel	JKR / PHARSB -ECSB JV	Stormwater Management	May 2004	Completed
Design, Construction, Completion & Commissioning of Integrated Customs, Immigration & Quarantine Complex, Johor Bahru.	Pembinaan Jayabumi Sdn Bhd	Sewerage Treatment Plant	June 2004	Completed

C. Supervision

Bachelor's Degree Project Supervision at UiTM

Sarjana Muda/ Diploma (Undergraduate /Diploma)	Tajuk Projek/ Amali/ <i>Tugasan Ilmiah</i> (Title and <i>Student's name</i>)	Tarikh Penyerahan/ Siap Projek/ Amali/ <i>Tugasan Ilmiah</i> (Date of Project submitted/ completed)
Sarjana Muda	MD AZIZ BIN ZAKARIA <i>THE EFFECTIVENESS OF STORM WATER GRASS SWATS SYSTEM FACILITY IN PUTRAJAYA</i>	2006 - 2007 / DIS - APR
Sarjana Muda	MD SHAKIR BIN MD SUKHRI <i>A STUDY ON THE THE EFFECT OF CONCRETE USING THE VARIATION PERCENTAGE OF PADDY HUSK AS CONCRETE MATERIAL ON COMPRESSIVE</i>	2006 - 2007 / DIS - APR

	<i>STRENGTH AND FLEXURAL STRENGTH</i>	
Sarjana Muda	GALIH ANDREW TUKAU <i>A STUDY OF CRUSHED MASONRY AS FINE AGGREGATE REPLACEMENT IN PRODUCING HIGH STRENGTH CONCRETE</i>	2006 - 2007 / DIS - APR
Sarjana Muda	KULIANA BT MAZLAN <i>THE COMPRESSION AND FLEXURAL CHARACTERISTICS OF COCONUT-FIBERED REINFORCED CEMENT COMPOSITES</i>	2005 - 2006 / DIS - APR
Sarjana Muda	IZATUL AZIERA BT SHAMSUDIN <i>WATER QUALITY ASSESSMENT FAR ABOVE AND BELOW GROUND STORAGE OF RAINWATER HARVESTING SYSTEMS IN KLANG VALLEY</i>	2005 - 2006 / DIS - APR
Sarjana Muda	FARAHANI BT HJ ABD HALMY <i>COMPRESSION AND FLEXURAL STRENGTH OF CRUSHED MASONRY AS REINFORCED CEMENT COMPOSITES</i>	2005 - 2006 / DIS - APR
Sarjana Muda	KHAIRILINDA BT SHAMSUL KHAIRIL <i>STORM WATER QUALITY ENHANCEMENT USING WETLAND: A CASE STUDY IN PUTRAJAYA WETLAND</i>	2005 - 2006 / DIS - APR

Sarjana Muda	AHMAD ZAIDI BIN MD NOR <i>DEVELOPMENT OF A PROTOTYPE GROSS POLLUTANT TRAP(GPT) MODEL, FIRST MALAYSIAN MADE MODEL TO IMPROVE THE CONVENTIONAL DRAINAGE SYSTEM</i>	2004 - 2005 / DIS - MEI
Sarjana Muda	AMIR BIN MUSTAFA <i>AN OVERALL ASSESSMENT ON THE IMPLEMENTATION AND EFFICIENCY OF MSMA SYSTEM IN MALAYSIAN PROJECTS FROM 2000 UNTIL 2004</i>	2004 - 2005 / DIS - MEI
Sarjana Muda	MUHAMMA REDZA BIN ABDUL AZIZ <i>A CASE STUDY ON THE DESIGN AND IMPLEMENTATION OF RAINWATER HARVESTING SYSTEM IN URBANIZED AREA IN MALAYSIA</i>	2004 - 2005 / DIS - MEI
Sarjana Muda	AHMAD AZIZI ARIFFIN <i>THE DEVELOPMENT OF A PROTOTYPE GRASS POLLUTANT TRAP(GPT),FIRST MALAYSIAN MODEL MADE TO IMPROVE THE CONVENTIONAL DRAINAGE SYSTEM</i>	2004 - 2005 / DIS - MEI

MSc and PhD	Tajuk Projek/ Amali/ <i>Tugasan Ilmiah</i> (<i>Title and</i> <i>Student's</i> <i>name</i>)	Tarikh Penyerahan/ Siap Projek/ Amali/ <i>Tugasan Ilmiah</i> (<i>Date of Project</i> <i>submitted/</i> <i>completed</i>)
<i>PhD</i>	<i>Mohd. Fariz</i> <i>Passive Fire Protection of</i> <i>cellular steel beams at</i> <i>elevated temperatures</i>	2014-2017
<i>MSc</i>	<i>Juvinia Augustine Zujip</i> <i>Thermal Conductivity And</i> <i>Microstructure of recycle</i> <i>Glass Concrete.</i>	2012-2013

PENYELIDIKAN DAN PENERBITAN
(RESEARCH AND PUBLICATION)

Penyelidikan Dan Penerbitan Dalam Tempoh Memegang Jawatan Sekarang
(All research progress and publication since appointment to the present position)

A. Penyelidikan
(*Research*)

Bil.	Tema Penyelidikan dan Kemajuan (<i>Research Themes & Progress</i>)	Tarikh selesai (<i>Date of</i> <i>Completion</i>)	Impak (<i>Impact</i>)
1	'Gross pollutant trap'	Mei 2007	Pembangunan model 'gross pollutant trap' untuk merekod keupayaan memerangkap bahan buangan domestik dalam saluran paip dan longkang mengikut densiti berlainan.

B. Bantuan Penyelidikan, Kontrak dan Projek
(*Research Grants, Contracts and Projects*)

<i>Title</i>	<i>Granting Agency</i>	<i>Amount & Research Duration</i>	<i>Chief researcher & members</i>	<i>(Percent and nature of your contribution)</i>
PROJEK PERINTIS PENUAIAN AIR HUJAN DI BANGUNAN JPS HULU SELANGOR	Jabatan Pengairan Dan Saliran (JPS) Hulu Selangor	RM20000 (Nov 2014-Jan 2015)	Dr Renga Rao.K	100%
ACCELERATED TEST ON TNB STREET LIGHTS	TNB RESEARCH SDN BHD	RM 250000 (July 2014-Dec 2015)	1) Pn Rozaina Ismail 2) Dr Renga Rao.K 3) Prof Azmi Ibrahim	33.33% 33.33% 33.33%
Structural Development of Gross Pollutant Trap	IRDC, UiTM	RM15000 (Jan 2005-Jan 2006)	1)Ketua Penyelidik (En.Renga Rao) 2) Ahli (Prof.Ir.Dr.Ruslan Hassan)	80% 20%
Awareness of OBE of Academic Staff and Students	IRDC,UiTM	RM12000 (Jun 2005 - Jun2006)	1)Ketua Penyelidik (En.Azmi Bukhary) 2) Ahli (En.Renga Rao)	50% 50%

C. Penerbitan dan/atau Karya Kreatif
(*Publication and/or creative works*)

Buku/Bab Dari Buku/Artikel/ Monograf/ Kertas Konferen (<i>Books/Book Chapter/ Article/Monograph Conference paper</i>)	Penerbit (<i>Publications</i>)	Tarikh Penerbitan (<i>Date Publication</i>)	Peratus dan jenis sumbangan (<i>Percentage and type of contribution</i>)
1) Conference paper <i>Effect of partial fire protection scheme on steel framed connections at high elevated temperatures</i>	United Kingdom : Malaysia Engineering Conference 2008	July 2008	Penulis utama
2) Conference paper	Nordic Steel		

<i>Temperature distribution of intumescent coated steel framed connection at elevated temperature</i>	09- Construction Conference, Malmo Sweden	Sept 2009	Penulis utama
Buku/Bab Dari Buku/ Artikel/ Monograf/Kertas Konferen/Ulasan Buku (<i>Books/ Book Chapter/ Article/ Monograph/ Conference paper/ Books Review</i>)	Penerbit (<i>Publications</i>)	Tarikh Penerbitan (<i>Date Publication</i>)	Peratus dan jenis sumbangan (<i>Percentage and type of contribution</i>)
1) Conference paper Effect of partial fire protection scheme on steel framed connections at high elevated temperatures	PGR-MACE 2008 , Manchester, UK	2008 2009	Penulis utama Penulis utama
2) Conference paper Temperature assesment of intumescent coated steel frame connection under elevated temperature.	PGR-MACE 2009 , Manchester, UK		

PERSIDANGAN
(*CONFERENCE*)

Senaraikan menurut turutan masa dari yang terkini, sejak dilantik ke jawatan sekarang.
(*list of conferences – most recent first, since your current appointment*)

NAMA PERSIDANGAN	PENGANJUR/PENAJA	PERANAN	TARIKH
Tips and Tricks in Structural Analysis	The Institution of Structural Engineers,Lancashire & Cheshire Branch, United Kingdom	Rapporteur	29th Jan 2009
Academic Writing	EPS Graduate School Training Workshops, The University of Manchester	Peserta	11th Feb 2008
3rd International Conference on Steel and Composite Structures (ICSCS07),	THE UNIVERSITY OF MANCHESTER	Rapporteur	30th July 2007

Introduction to Research	EPS Graduate School Training Workshops, The University of Manchester	Peserta	10th August 2007
KURSUS KAEDAH PENYELIDIKAN PhD	iLQaM, UiTM	PESERTA	26 FEB - 2 MAC 2007
SEM. SIGNAL PROCESSING & INVERSION FOR CIVIL ENGINEER	FAKULTI KEJURUTERAAN AWAM, UiTM	PESERTA	11-12 JAN 2007
INTERNATIONAL SEMINAR ON CIVIL & INFRASTRUCTURE ENGINEERING 2006	FAKULTI KEJURUTERAAN AWAM, UiTM	Peserta	14 JUN 2006
CONFERENCE OF ENGINEERING EDUCATION CEE 2004	UNIVERSITI TEKNOLOGI MALAYSIA	PENULIS BERSAMA	14-15 DEC 2006
YOUNG RESEARCHERS CONFERENCE ON APPLIED SCIENCES 06	Fakulti Sains Gunaan, UiTM	PESERTA	13 JUN 2006
INTRODUCTION TO INFOWORKS CS	WALLINGFORD SOFTWARE & FKA, UiTM	PESERTA	4-6 DIS 2006
FUNDAMENTAL RESEARCH GRANT SCHEME	FAKULTI KEJURUTERAAN AWAM, UiTM	PESERTA	7-8 SEPTEMBER 2006
BENGKEL PENGENDALIAN APLIKASI e-LEARNING	iLQaM, UiTM	PESERTA	30 APRIL 2005

KHIDMAT UNIVERSITI/MASYARAKAT

Tarikh (Date(s))	Jawatan (Position)	Jabatan/Fakulti/Jawatankuasa/ Badan/Institusi (Department/Faculty/Committee/ Bodies/Institution)	Penjelasan Peranan dan Sumbangan (Description of role & contribution)
SEPT 2012- Current	Auditor	Audit Dalaman FKA	Menjalankan pemantauan audit dalaman FKA
JULY 2011- JAN 2014	Pengurus Dokumen ISO	ISO FKA	Penyediaan dokumen kualiti dan perancangan untuk menghadapi audit SIRIM 2015
JUN 2007	Pegawai Dokumen Kualiti	ISO FKA	Mengurus prosedur kualiti pengurusan and prosedur operasi

			dan dokumen kualiti. Membantu proses persijilan ISO FKA(4-6 April 2007)
1 JUL 2006 - 30 JUN 2008	AJK	PROGRAM BARU	Menyediakan Dokumen Berkaitan Pembentukan Program Baru
2006	Pegawai Dokumen Kualiti	ISO FKA	Mengurus prosedur kualiti pengurusan and prosedur operasi dan dokumen kualiti
1 JUL 2006	AJK	Anugerah Kualiti NC/KIK	Penyediaan Dokumen berkaitan Anugerah Kualiti NC
2004-2005	AJK	AKREDITASI	Menyediakan Dokumen Berkaitan Akreditasi(Submission to The Engineering Accreditation Council for the Accreditation of Bachelor of Engineering (Honours)(Civil) Programme, Universiti Teknologi MARA)
2005	Pegawai Dokumen Kualiti	ISO FKA	Mengurus prosedur kualiti pengurusan and prosedur operasi dan dokumen kualiti
2004	AHLI	ISO FKA	Membantu menyemak dokumen dokumen kualiti.

B. Perkhidmatan Kepada Pihak Luar Universiti

(External Service)

KHIDMAT MASYARAKAT

TARIKH	NAMA BADAN	JAWATAN	PERINGKAT	PENJELASAN PERANAN DAN SUMBANGAN
2007 - 2010	STUDENTS UNION(POSTGRAD) UNIVERSITY OF MANCHESTER	AHLI	UNIVERSITI	AHLI
2004-sekarang	AHLI MITASA	AHLI	UNIVERSITI	AHLI
2004-sekarang	Persatuan Penghuni Taman Garing, Rawang	AHLI	KOMUNITI	AHLI
2008	ICE-SKATE UK	AHLI-LEVEL 3	ANTARABANGSA	AHLI

SANJUNGAN DAN ANUGERAH AKADEMIK (GLORIFICATION AND ACADEMIC AWARDS)

TARIKH	NAMA ANUGERAH/ HADIAH	INSTITUSI PENGANUGERAHAN	JUMLAH GERAN/ BIASISWA	PERINGKAT
2005	ANUGERAH KHIDMAT CEMERLANG 2005	UNIVERSITI TEKNOLOGI MARA		UNIVERSITI
8-24 APR 2004	PESERTA CEMERLANG KURSUS INDUKSI MODUL UMUM UITM BIL 65/2004	JABATAN PEMBANGUNAN SUMBER MANUSIA UITM		KEBANGSAAN

TARIKH	NAMA ANUGERAH/ HADIAH	INSTITUSI PENGANUGERAHAN	JUMLAH GERAN/ BIASISWA	PERINGKAT
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21- 23 Jun 2006	Sijil Penghargaan Bengkel Pelarasan Silibus Diploms	FAKULTI KEJURUTERAAN AWAM		UNIVERSITI
24-26 Mei 2004	Sijil Penghargaan Bengkel research training course for young lecturers	FAKULTI KEJURUTERAAN AWAM		UNIVERSITI
16 Sept 2004	Sijil Penghargaan BREAKTHROUGH AND COLLABORATIVE RESEARCH	URDC & FKA		UNIVERSITI
21-23 Dec 2005	Sijil Penghargaan Kursus Pensyarah baru	FAKULTI KEJURUTERAAN AWAM		UNIVERSITI
7 Sept 2005	Sijil Penghargaan Menyertai Penulisan Akademik Untuk PROCEEDINGS & JURNAL	FAKULTI KEJURUTERAAN AWAM		UNIVERSITI
30 Jun-1 July	Sijil Penyertaan Mengikuti KURSUS KEMAHIRAN ASAS KAUNSELING	Jabatan Kaunseling HEP & Alumni UiTM Shah Alam		UNIVERSITI
25 Feb 2005	Sijil Penyertaan Menyertai Seminar IRPA 2005 sebagai Peserta Bengkel	FAKULTI KEJURUTERAAN AWAM		UNIVERSITI
10-12 Nov 2006	Duty Officer In Conjunction Held For The Royal Alumni Home Coming Exhibition Universiti Teknologi Mara	UNIVERSITI TEKNOLOGI MARA		KEBANGSAAN
19 June 2006	One day WORKSHOP ON OUTCOME-BASED ASSESSMENT OF ENGINEERING EDUCATION	UNIVERSITI TEKNOLOGI MARA		UNIVERSITI