

# Master of Engineering (Hydraulics and Hydrology)

School of Civil Engineering , Faculty of Engineering



**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA

# UTM POSTGRADUATE WEEKEND PROGRAMME

By Dr. Nor Eliza Alias  
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Coordinator

[www.utm.my](http://www.utm.my)

innovative • entrepreneurial • global



univteknologimalaysia



utm\_my



utmofficial



## UTM Johor Bahru Campus

(1,148 hectares)

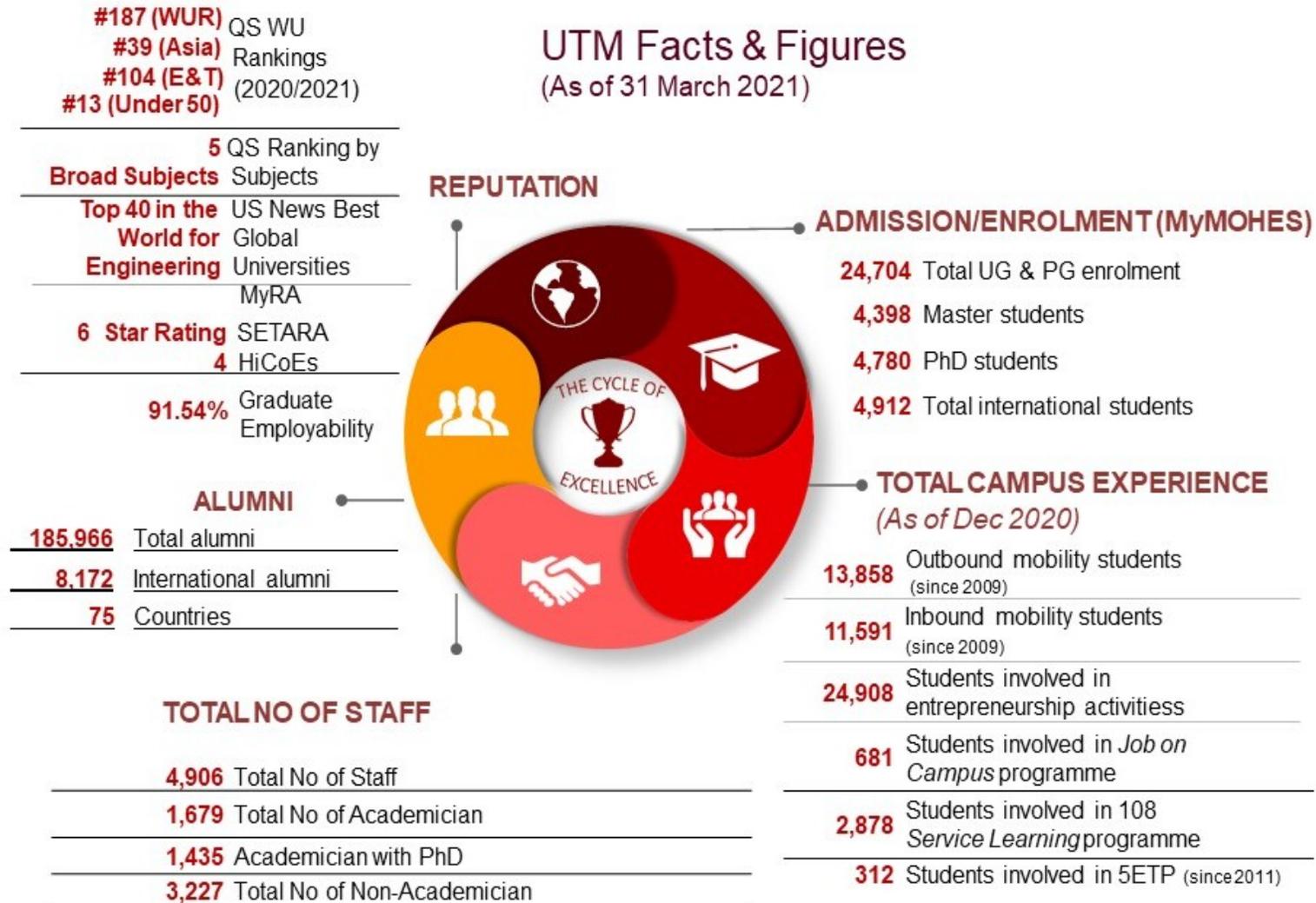


## UTM Kuala Lumpur Campus

(35 hectares)

# BE THE BEST, BE WITH US!

## UTM Facts & Figures (As of 31 March 2021)



# Congratulations

Universiti Teknologi Malaysia

18 subjects ranked in  
2021 QS WORLD UNIVERSITY RANKINGS by subjects

No #1 in Malaysia 

Architecture/Built Environment

Engineering - Civil & Structural



Top in the World

Top 50

Engineering -  
Petroleum

Top 100

Architecture/  
Built Environment

Engineering -  
Civil & Structural

Engineering -  
Chemical

Engineering -  
Electrical & Electronics

Engineering -  
Mineral & Mining

Top 150

Engineering -  
Mechanical, Aeronautical &  
Manufacturing

*Well done*

UTM staff and students!

# WEEKEND PROGRAM @ UTM PESISIR



Accredited by the Malaysian Qualification Agency (MQA)



QS World University Rankings : Highly ranked



Structured Program & Flexible Classes



Qualified lecturers and Professors in research and academic fields



Competitive fees package & payable by instalments



*"The weekend class has allowed me to reach my dream of continuing my Master's. As I am working full-time and in Sabah, I can't have the luxury of spending full time on campus. It had been a very interesting and valuable experience. Thank you UTM! I will certainly recommend my friends to join this program."*

**Ir. Ts. Leona Ng, PMP**

Chief Engineer Major Project (Transmission),  
Sabah Electricity Sdn. Bhd



# MASTER OF ENGINEERING (HYDRAULICS AND HYDROLOGY)

**School of Civil Engineering , Faculty of Engineering**

**By Dr. Nor Eliza Alias**  
**noreliza@utm.my**  
**Coordinator**

# CAREER-FOCUSED COURSES



# FLOOD DISASTER

## Pemanasan global kini tahap kritikal



Oleh Nazura Ngah  
nazura\_ngah@oh.com.my

Share Tweet



Kuala Lumpur: Keadaan cuaca tidak menentu yang menyaksikan kawasan tidak pernah dilanda banjir mengalami banjir besar dan masalah kemarau panjang adalah antara kesan daripada pemanasan global yang membawa perubahan atau gangguan terhadap kitaran iklim, habitat dan ekosistem.

Pemanasan global adalah fenomena pemerangkapan gas dikenali sebagai gas rumah hijau membabitkan kumpulan gas (karbon dioksida (CO<sub>2</sub>), karbon monoksida (CO), kloroflorokarbon (CFC), metana, nitrogen oksida) menghalang dan memerangkap haba bumi

## Pembangunan, sistem saliran tak seimbang punca banjir

Share Tweet

MyMetro > Mutakhir



Rizanizam Abdul Hamid  
rizanizam@hmetro.com.my

Mutakhir

## Sistem Perparitan tersumbat punca berlakunya banjir – Dr Zaini Ujang

January 10, 2021 177 0



Kementerian Alam Sekitar dan Air (KASA) mendapati sistem perparitan yang tersumbat menjadi antara punca bencana banjir.

Justeru, pihaknya akan mengambil beberapa tindakan segera bagi menangani perkara berkenaan.

Ketua Setiausaha Kementerian Alam Sekitar dan Air (KASA), Datuk Seri Dr Zaini Ujang berkata, penyelenggaraan longkang secara berkala perlu dilakukan bagi memudahkan aliran keluar air.

RECOMMENDED VIDEOS



POPULAR

Dana bernilai RM2 juta diperuntuk kepada belia Selangor

# CLIMATE CHANGE





**KENYATAAN MEDIA  
JABATAN PENGAIRAN DAN SALIRAN MALAYSIA**

**Laporan Kejadian Banjir Di Negeri Kedah  
Pada 18 Ogos 2021**

1. Kejadian hujan lebat ekstrem pada 18 Ogos 2021 (Rabu) telah bermula sekitar jam 2.30 petang, berterusan hingga jam 8.00 malam dan telah menyebabkan banjir kilat yang sangat teruk di Daerah Yan dan Daerah Kuala Muda, Kedah.
2. Kejadian hujan melebihi 6 jam di kawasan hulu sungai telah menyebabkan aliran air permukaan yang sangat tinggi hingga menyebabkan keruntuhan cerun-cerun di kaki gunung. Kawasan tadahan hujan yang berada di puncak Gunung Jerai tidak mampu menampung kapasiti air hujan yang terkumpul hingga mengakibatkan limpahan aliran air. Seterusnya, berlaku fenomena kepala air di kawasan sekitar kaki Gunung Jerai dan kejadian banjir lumpur mengejut. Antara sungai yang terlibat adalah Sungai Gurun, Sungai Kampung Badak, Sungai Kunyit, Sungai Tupah, Sungai Pengkalan Kakap, Sungai Tok Malau dan Sungai Singkir.
3. Aliran air sungai yang deras telah menghakis tebing serta menumbang dan menghanyutkan pokok-pokok hutan serta ranting dan dahan yang kemudiannya tersekat di struktur lintasan dan jambatan. Sekatan di lintasan dan jambatan inilah yang mengakibatkan kenaikan paras air sungai yang begitu pantas dan terjadinya banjir kilat.
4. Kedalaman banjir yang direkodkan di Yan adalah sehingga 1.5 meter. Manakala di Gurun, kedalaman yang direkodkan adalah sehingga 0.3 meter. Kerja-kerja pembersihan dan membaikpulih sungai terutamanya di sekitar jambatan-jambatan telah pun bermula.

**Ketua Pengarah  
Jabatan Pengairan dan Saliran, Malaysia  
20 Ogos 2021**



**Kementerian Alam Sekitar Dan Air**

August 19 at 4:57 PM · 🌐

**TABURAN HUJAN 278 MM DALAM TEMPOH 8 JAM DI SEKITAR  
PUNCAK GUNUNG JERAI, KEDAH**

1. Laporan tinjauan cuaca oleh Jabatan Meteorologi Malaysia (METMalaysia) mendapati terdapat taburan hujan lebat luar biasa dalam tempoh yang singkat di sekitar kawasan puncak Gunung Jerai, Yan, Kedah bermula sekitar jam 2.30 petang, 18 Ogos 2021. Keadaan ini telah menyebabkan berlaku kejadian banjir kilat di kawasan penempatan di Daerah Kuala Muda dan Daerah Yan, Kedah.
2. Berdasarkan maklumat oleh Jabatan Pengairan dan Saliran (JPS) Malaysia, Stesen Hujan Gunung Jerai merekodkan bacaan kumulatif 281 mm dan Stesen Hujan Kampung Singkir Genting merekodkan bacaan kumulatif 172 mm. Dalam tempoh 1 jam, jumlah kumulatif tertinggi hujan direkodkan adalah 91 mm. Berdasarkan rekod, pada jam 6.00 petang, hujan yang turun telah melebihi 50 tahun Average Recurrence Interval (ARI). Manakala kemuncaknya ialah pada jam 8.00 malam iaitu melebihi 70 tahun ARI bagi jumlah hujan 278 mm.
3. Kejadian hujan yang ekstrem ini telah menyebabkan fenomena kepala air di kawasan Gunung Jerai dan banjir lumpur sehingga kedalaman 0.1 meter hingga 0.3 meter di Daerah Kuala Muda dan 0.2 – 1.5 meter di Daerah Yan. Hujan lebat di hulu iaitu kawasan bukit menyebabkan berlaku limpahan air sungai serta terdapat halangan sampah sarap, kayu dan reba pokok yang tersangkut pada lintasan.
4. Pihak KASA bersama agensi-agensi di bawahnya, termasuk Kerajaan Negeri telah mengambil tindakan termasuk kerja pembersihan dan mengadakan perbincangan bagi melaksanakan kerja-kerja pembaikan yang perlu dijalankan segera.

YBhg. Dato' Seri Ir. Dr. Zaini Ujang  
Ketua Setiausaha  
Kementerian Alam Sekitar Dan Air  
Putrajaya  
19 Ogos 2021



# WATER SUPPLY



## Khalid Jamin Tiada Catuan Air Walau Paras Empangan Rendah

Selasa, 05 Ogos 2014 5:01 PM



## Gangguan Bekalan Air Selangor 2021: Jadual Notis Syabas

Ogos 5, 2021

Jadual dan Notis syabas melibatkan gangguan bekalan air selangor 2021 untuk hari ini secara online



# COASTAL ZONES PROTECTION



Tinjau dari udara Kampung Tanjung Gelam mengalami hakisan walau benteng pemecah ombak siap dibina. - NSTP/Imrai



# CAREER-FOCUSED COURSES

The need of advanced knowledge to tackle water-related engineering problems





## *2-ways communication and sharing*

Classes (Online, face to face)

Problem and Project Base Learning (40 to 50 % continuous assessment, 60 to 40% Final Exam)

# The Academics



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# OUR COURSES



CODE	COURSES	CREDIT
<b>6 CORE COURSES (28 credit) + 1 University Course (3 credit) + Research Methodology (3 credit)</b>		
MKAG 1113	Advanced Hydraulics	3
MKAG 1213	Advanced Hydrology	3
MKAG 1123	Hydraulic Structures	3
MKAG 1133	Coastal Engineering	3
MKAG 1223	Water Resources Management	3
MKAG 1233	Urban Stormwater Management	3
MKAG 1514/1526	Master Project 1 and 2	10



**TOTAL 34 CREDITS**

# OUR COURSES



CODE	COURSES	CREDIT
<b>4 ELECTIVE COURSES (Choose 4 MKAG or 2 MKAG and 2 SCE electives)</b>		
MKAG 1313	Computational Fluid Mechanics	3
MKAG 1153	Fluvial Hydraulics	3
MKAG 1173	Water Supply Engineering	3
MKAG 1183	Coastal Structures	3
MKAG 1193	Port and Harbour Engineering	3
MKAG 1243	Groundwater Hydrology	3
MKAG 1273	Statistical Hydrology	3

**TOTAL 12 CREDITS**

**FINAL TOTAL 46 CREDITS**

For other School of Civil Engineering (SCE) Electives, visit <https://sites.google.com/utm.my/skapg/programmes>

## Postgraduate

School of Civil  
Engineering

HOME

**PROGRAMMES**

NOTICE BOARD

REGISTRATION KITS

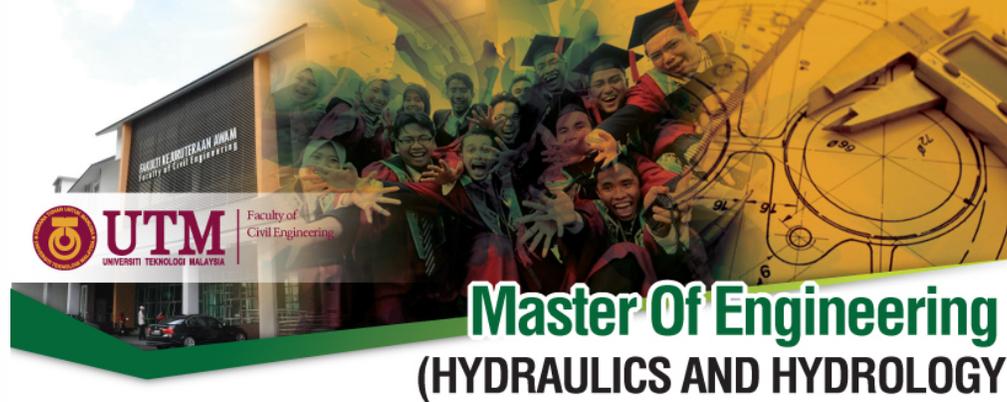
EVENTS

TIMETABLE

PRESENTATIONS

**MASTER BY COURSEWORK (9)**

- MASTER OF ENGINEERING (CONSTRUCTION MANAGEMENT), MKAM, [Curriculum Structure](#) | [Brochure](#) | [Study Plan](#)
- MASTER OF ENGINEERING (STRUCTURE), MKAE, [Curriculum Structure](#) | [Brochure](#) | [Study Plan](#)
- MASTER OF ENGINEERING (GEOTECHNICS), MKAJ, [Curriculum Structure](#) | [Brochure](#) | [Study Plan](#)
- MASTER OF ENGINEERING (TRANSPORTATION), MKAQ- [Curriculum Structure](#) | [Brochure](#) | [Study Plan](#)
- MASTER OF ENGINEERING (HYDRAULIC & HYDROLOGY), MKAG - [Curriculum Structure](#) | [Brochure](#) | [Study Plan](#)
- MASTER OF ENGINEERING (ENVIRONMENTAL MANAGEMENT), MKAK - [Curriculum Structure](#) | [Brochure](#) | [Study Plan](#)
- MASTER OF ENGINEERING (CIVIL), MKAA,-[Curriculum Structure](#) | [Brochure](#) | [Study Plan](#)
- MASTER OF FORENSICS ENGINEERING, MKAX -[Curriculum Structure](#) | [Brochure](#) | [Study Plan](#)
- MASTER OF PROJECT MANAGEMENT, MKAZ (**Offshore Programme only**) - [Curriculum Structure](#) | [Brochure](#) | [Study Plan](#)



# Master Of Engineering (HYDRAULICS AND HYDROLOGY)

## Objective

The program aims to provide an enhanced and integrated knowledge of Hydraulics, Hydrology, Coastal Engineering and Water Resources Management. Attention is paid to advanced knowledge in Hydraulics and Hydrology discipline related to Civil Engineering. The role of applied hydraulics and hydrology is to help analyse the problems involved in flood control, river sedimentation, coastal erosion, and planning and management of water resources.

## Admission Requirements

Candidates should hold a good bachelor's degree in civil engineering from Universiti Teknologi Malaysia or equivalent. A lower grade degree with sufficient working experience may also be considered for admission. Holders of degrees other than civil engineering may also apply but pre-requisites knowledge/course may be imposed.

## Credit Requirements

A student must complete 46 credit hours for graduation.

## Core Course:

All Core Courses are compulsory (Total: 18 credits)

### MKAG 1113 Advanced Hydraulics

This course exposes students to the advanced concepts of fluid mechanics in relation to viscous flows. It covers laminar flows, transition to turbulence and turbulent flows and will be taught with civil engineering applications in mind. In this course, unsteady flow in open channels and pipes such as water hammer problems - topics of specific interest to civil engineers - is also covered.

### MKAG 1123 Hydraulic Structures

The course in hydraulic structures cover topics such as dam, spillways, weirs, intake structures, energy dissipators, river diversion works, barrages, reservoir sedimentation, pumping stations, and hydraulic modelling.

### MKAG 1113 Coastal Engineering

The course provides a basic understanding of the nearshore hydrodynamic and morphological processes in coastal areas. It gives background knowledge of the various hydrodynamic parameters acting in the coastal region due to waves, tides and currents.

### MKAG 1213 Advanced Hydrology

The course offers study in hydrological processes, include rainfall, evapo-transpiration, infiltration, soil water processes and overland flow. Aspect of rainfall-runoff processes and hydrologic routing are discussed and how these processes are modelled for use in flood estimation.

### MKAG 1223 Water Resources Management

The course provides relevant topics in planning and management of water resources. The topics include surface water and groundwater, water resources issues and development, water law, policy and institutions, water resources planning, economic and financing, water resources analysis, reservoir and yield operation, river basin management, multi-objectives analysis, risk and reliability analysis.

### MKAG 1233 Urban Stormwater Management

The course covers theoretical aspects and design of urban stormwater drainage system. The topics includes drainage planning process, non-structural planning, control option for flow reduction and pollution minimization. At the end of the course, the students will be exposed to design elements in urban drainage and flood control systems that comply with Malaysian design criteria.

### Masters Project MKAG 1514 and MKAG 1526 (Total: 10 credits)

The Masters Project is an independent project or research type work on topics that are relevant to water resources, hydrology and hydraulics engineering. The project topics will have to be approved by the program panel and will be supervised by a member of the academic staff. The Masters Project can also be developed based on student's own experience in industry.

### Compulsory University's General Elective Courses (Total: 6 credits)

UXXX XXX3 University General Elective Course  
UAPA 0013 Research Methodology

## Duration of Study

Full time: 3-6 semester  
Part time: 4-8 semester

## Elective Courses:

Choose four courses, or a minimum of two from this elective courses and another two from other programs. (Total: 12 credits)

- MKAG 1313 Computational Fluid Mechanics
- MKAG 1143 River and Estuarine Hydrodynamics and Transport
- MKAG 1153 Fluvial Hydraulics
- MKAG 1163 Computational Environmental Hydraulics
- MKAG 1173 Water Supply Engineering
- MKAG 1183 Coastal Structures
- MKAG 1193 Port and Harbour Engineering
- MKAG 1243 Groundwater Hydrology
- MKAG 1253 Groundwater Modelling
- MKAG 1263 Irrigation Engineering
- MKAG 1273 Statistical Hydrology



# PROGRAMME LEARNING OUTCOMES (PLO)

- ✓ **PLO1 – Advanced Knowledge**  
In depth relevant knowledge in professional practices.
- ✓ **PLO2 – Research Skills**  
Formulate hypothesis, design and perform research scientifically to solve and explain phenomena
- ✓ **PLO3 – Critical Thinking & Problem Solving**  
Manage conducive working environment qualities, problem solving and higher order thinking skills.
- ✓ **PLO4 – Ethics, Values and Professionalism**  
Balance professional and ethical responsibilities
- ✓ **PLO5 – Communication**  
Apply a wide range of relevant knowledge through effective oral and written communication
- ✓ **PLO6 – Life Long Learning**  
Adopt latest relevant knowledge and cutting edge technology through life long learning processes.



# PROGRAM SCHEDULE

SESI1 SEM 1	SESI 1 SEM 2	Short Sem	SESI 2 SEM 1	SESI 2 SEM 2
3 CORE	3 CORE	RESEARCH METHOD  UNIVERSITY COURSE	PROJECT 1 2 ELECTIVE	PROJECT 2 2 ELECTIVE

May be amend..



**Face to Face  
(Conventional)**

Face to face classes every weekends

**Blended**

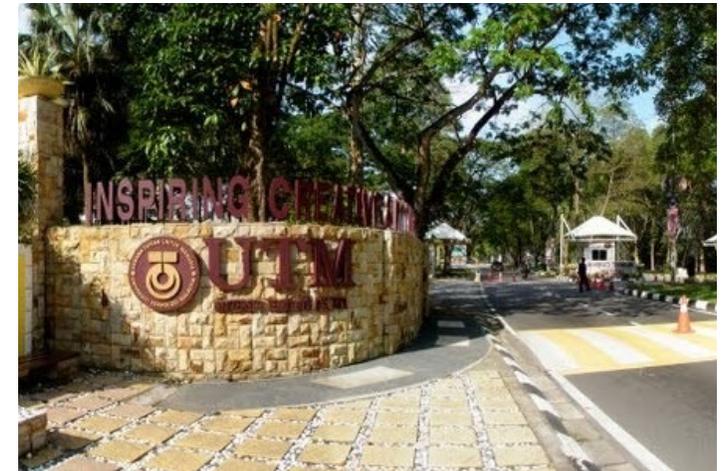
Each course – 3 class session:  
1 face to face, 2 virtually

# ENTRY REQUIREMENTS

## Program Requirements

- ✓ A Bachelor's Degree in Civil Engineering with good honors from Universiti Teknologi Malaysia or **any other institution of higher learning** recognized by the Senate; or
- ✓ A qualification **equivalent** to a Bachelor's Degree in Civil Engineering recognized by the Senate.
- ✓ Need **5 years working experience** if CPGA less than 2.50

postgrad 



# PROGRAM CENTER (LOCATION)

- ✓ Johor Bahru
- ✓ Kuala Lumpur
- ✓ Others : e.g. Kuching, Kota Bharu, Penang, etc. (subjected to demand)

Requires minimum **15 students** to open a center



**Blended**

Each course – 3 class session:  
1 face to face, 2 virtually

Please fill in your interest and details (name and phone number):  
Form will be given end of this session

Inquiry?



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# BRIEFING BY THE POST GRADUATE OFFICE

Student Journey

Learning Facilities and Support

Tuition Fees

Financial Support

Application & Admission



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A  
Associate Chair Offshore SP...

SITI SARAH BINTI AHMAD SPS

Noraliani Alias

M  
MOHD HAFIZ BIN PUTEH FKA

SHAMILA BINTI AZMAN FKA

A  
Associate Chair Offshore SP...

TAN CHER SIANG FKA

J  
32 others

You

### In-call messages

**Praphan HC** 4:59 PM  
Thank you so much for answering the questions. Appreciated. 🙏

**Hairullina AAlias** 5:00 PM  
Yu may contact me at noraliani@utm.my for further info  
Yu- You  
noted Puan..

**Mohd Shafiq Hafiz bin Kahar** 5:01 PM  
I'm interested to apply in Environmental Management

Send a message to everyone

5:03 PM | VIRTUAL PROGRAMME PREVIEW - SCH...

Microphone, Video, Screen Share, Hand, Remote, More, End Call

Info, Participants (40), Chat, Settings