

TRAINING WORKSHOP :

# DRONE MAPPING WITH PRECISE GPS CONTROL



Free-trial UTM  
Coordinate  
Transformation  
software

Free 1 unit  
Recreation Micro  
Drone

Drone Handling &  
Mapping Hands-on!

GPS Observation &  
Data Processing  
Experience!

## JOIN US!

Option for **two series** of workshop in 2019

• *Please choose your suitable date:*

Date : 1) 1<sup>st</sup> – 3<sup>rd</sup> April 2019 (Series 1)  
or

2) 5<sup>th</sup> – 7<sup>th</sup> August 2019 (Series 2)

Venue : Seminar Room 1, Faculty of Built  
Environment & Surveying,  
81310 UTM, Johor Bahru, Johor.

Organized by :



In Collaboration with :



HRDF Claimable



# CONTENT

The aim of this training workshop is to provide comprehensive understanding and practicality aspect of drone mapping with precise GPS ground control point (GCP). Uniqueness of this training workshop is to combine expertise from university, industry and practitioner that will give broad exposure on the subject matters to each participant. The training workshop will cover simple lectures and practices, yet exciting topics on drone technology and mapping, and GPS observation techniques as well as the basic of coordinates transformation & map projection. In addition, each participant will experience to fly the drone, establish GCP and hands-on lab to process drone and GCP for mapping purposes. At the end of this workshop, it is expected that participants will be ready to practice knowledge from this training in a daily routine of work.

## COMMITTEE MEMBERS:

Facilitator	Technical Asst.
1. Assoc. Prof. Dr. Tajul Ariffin Musa	1. Mohd Faizi Mohd Salleh
2. Assoc. Prof. Dr. Hj. Anuar Hj. Ahmad	2. Khairunizam Md Ribut
3. Assoc. Prof. Dr. Zulkarnaini Mat Amin	3. Anuar Aspuri
4. Prof. Dr. Edy Tonnizam Mohamad	4. Mohamad Fahmi Mohd Nasir
5. Dr. Abdullah Hisam Omar	5. Muhammad Syazwan Ab Razak
6. Dr. Muhammad Zulkarnain Abd Rahman	6. Muhamad Asyraf Zamari
7. Dr. Ivin Amri Musliman	7. Muhammad Farid Mohd Yazair
8. Dr. Tan Liat Choon	8. Muhammad Fahmiazi Azlee Sham
9. Dr. Wan Anom Wan Aris	9. Amirul Hakim Kamarudin
10. Mr. Mohd Juraidi Ahmad	
11. Mr. Syaquir Al-Ezree Misni	
12. Mr. Nomy Kok	

## Administrative

- Norila Joyos
- Dewi Narty Mohd Ikhsan

## ACCOMMODATIONS

We suggest nearby accommodations:

- Scholar's Inn UTM**  
Reservation: +607 – 553 5197 / +607 – 553 6695  
Website: <http://www.utm.my/scholars-inn/>
- Pulai Spring Resort**  
Reservation: +607 – 521 2121  
Website: <http://www.pulaisprings.com/>
- Rose Cottage Hotel, Taman Universiti**  
Reservation: +607 – 521 1366  
Website: <http://www.rosecottagehotel.com/>
- Hotel Austin Paradise, Taman Pulai Utama**  
Reservation: +607 – 562 6222/ +6016 – 723 6222  
Website: <http://www.hotelaustinparadise.com/>
- Impiana Hotel, Senai Johor Bharu**  
Reservation: +607 – 595 8899  
Website: <http://www.impiana.com/>

## REGISTRATION FORM

**Title:** Prof/Dr/Sr/Mr/Mrs/Miss \* Please tick your suitable time:-

**First/Given Name:**  Series 1 (1<sup>st</sup> – 3<sup>rd</sup> April 2019)

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**Surname/Last name:**  Series 2 (5<sup>th</sup> – 7<sup>th</sup> August 2019)

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**Company:**

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**Email:** RM 3500/person per series  
(Registration dateline 28<sup>th</sup> Feb 2019)

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**Phone:**

.....

Kindly be informed to all participants:

- \* Fees does not include accommodation.
- \* Refreshment and lunches will be provided.
- \* Free 1 month trial UTM Coordinate Transformation Program (CTP) software.
- \* Free 1 unit of Recreation Micro Drone
- \* Training workshop certificate will be provided.

## Payment Options:

**CIMB Bank Berhad - UTMSPACE account**  
8601518228 .

**Cheque** - Pay to UTMSPACE.

\* Please email this registration form and prove of payment (bank slip/deposit slip, etc.) to [bengkelng@gmail.com](mailto:bengkelng@gmail.com)

## DAY 1

## TENTATIVE

08:30 - 09:00 AM	<b>REGISTRATION</b>
09:00 - 09:15 AM	<b>WELCOMING ADDRESS</b> <i>(Dean / Director of Geoinformation, Faculty of Built Environment and Surveying)</i>
09:15 - 10:30 AM	<b>SESSION 1: Introduction to GPS</b> <i>(Assoc. Prof. Sr. Dr. Tajul Ariffin Musa, Dr. Abdullah Hisam Omar &amp; Dr. Wan Anom Wan Aris)</i>
	1. GPS overview
	2. GPS observation techniques
	3. Geodetic coordinate system
10:30 - 11:00 AM	<b>TEA BREAK</b>
11:00 - 12:30 PM	<b>SESSION 2: Brief on GPS Observation &amp; Fieldwork</b> <i>(Assoc. Prof. Sr. Dr. Tajul Ariffin Musa, Dr. Abdullah Hisam Omar, Dr. Wan Anom Wan Aris &amp; Mr. Nomy Kok)</i>
12:30 - 01:30 PM	<b>LUNCH BREAK</b>
01:00 - 05:00 PM	<b>PRACTICAL 1 : GPS Observation &amp; Data Downloading</b> <i>(Mr. Nomy Kok, Muhammad Syazwan Ab Razak, Muhamad Asyraf Zamari, Muhammad Farid Mohd Yazair)</i>
05:00 PM	<b>TEA BREAK &amp; DISMISS</b>

## DAY 2

## TENTATIVE

08:30 - 10:00 AM	<b>SESSION 3: Drone Techonology &amp; Mapping</b> <i>(Assoc. Prof. Dr. Anuar Hj. Ahmad, Mr. Juraidi Ahmad &amp; Mr. Syaquir Al-Ezree Misni)</i>
	1. Introduction to Drone
	2. Drone flight planning
	3. Drone image processing requirements
10:00 - 10:30 AM	<b>TEA BREAK</b>
10:30 - 12:30 AM	<b>SESSION 4 : Brief on Drone Flight Planning &amp; Field Observation</b> <i>(Dr. Muhammad Zulkarnain Abd Rahman, Mr. Juraidi Ahmad, Mr. Syaquir Al-Ezree Misni &amp; Muhamad Asyraf Zamari)</i>
12:30 - 1:30 PM	<b>LUNCH BREAK</b>
01:30 - 5:00 PM	<b>PRACTICAL 2 : Drone Observation</b> <i>(Dr. Muhammad Zulkarnain Abd Rahman, Muhamad Asyraf Zamari)</i>
05:00 PM	<b>TEA BREAK &amp; DISMISS</b>

## DAY 3

## TENTATIVE

08:30 - 10:30 AM	<b>LAB1 : GPS Data Processing with Trimble Business Centre (TBC) Software</b> <i>(Assoc. Prof. Sr. Dr. Tajul Ariffin Musa, Dr. Wan Anom Wan Aris, Mr. Nomy Kok &amp; Muhammad Syazwan Ab Razak)</i>
	1. GPS baseline & network processing for reference stations
	2. GCP processing & checking
	3. Coordinate transformation (UTM CTP software)
10:30 - 11:00 AM	<b>TEA BREAK</b>
11:00 - 12:30 PM	<b>LAB 2 : Drone Data Processing with Agisoft Software</b> <i>(Dr. Muhammad Zulkarnain Ab Rahman, Dr. Ivin Amri Musliman &amp; Mr. Juraidi Ahmad)</i>
	1. Aerial photo preparation
	2. Geo-referencing
	3. Generating orthophoto & DEM
12:30 - 01:30 PM	<b>LUNCH BREAK</b>
01:30 - 05:00 PM	<b>CONTINUE LAB 2</b>
05:00 PM	<b>CLOSING CEREMONY &amp; TEA TIME</b>

## CONTACTS

For further inquiries, please contact :

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- Dewi Narty Binti Mohd Ikhsan**  
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