TRAINING WORKSHOP :

DRONE MAPPING WITH PRECISE GPS CONTROL

JOIN US!

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

- *Please choose your suitable date:*

Date : 1) ~~1st – 3rd April 2019 (Series 1)~~
or
2) 5th – 7th August 2019 (**Series 2**)

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

Organized by :

UTM-GnG Geomatic Innovation Research Group

UTM GEOTROPIK Centre of Tropical Geoengineering

In Collaboration with :

UTM Universiti Teknologi Malaysia — School of Professional and Continuing Education (SPACE)

TropicalMap Research Group

lands

PGR Prestige Geomatic Resources

UTM 3D-GIS Research Group

GTS Global-trak Systems

GEO jejak

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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.

COMMITTE MEMBERS:

Facilitator

1. Assoc. Prof. Dr. Tajul Ariffin Musa
2. Assoc. Prof. Dr. Hj. Anuar Hj. Ahmad
3. Assoc. Prof. Dr. Zulkarnaini Mat Amin
4. Prof. Dr. Edy Tonnizam Mohamad
5. Dr. Abdullah Hisam Omar
6. Dr. Muhammad Zulkarnain Abd Rahman
7. Dr. Ivin Amri Musliman
8. Dr. Tan Liat Choon
9. Dr. Wan Anom Wan Aris
10. Mr. Mohd Juraidi Ahmad
11. Mr. Syaqir Al-Ezree Misni
12. Mr. Nomy Kok

Administrative

1. Norila Joyos
2. Dewi Narty Mohd Ikhsan

Technical Asst.

1. Amirul Hakim Kamarudin
2. Anuar Aspuri
3. Aszali Karsan
4. Hafizatul Izan Md Paimi
5. Khairunizam Md Ribut
6. Maszalan Selamat
7. Mohd Faizi Mohd Salleh
8. Mohd Hezul Hezri Hassan
9. Mohd Shahrul Baharom
10. Muhamad Asyraf Zamari
11. Muhammad Fahmiazri Azlee Sham
12. Muhammad Farid Mohd Yazair
13. Muhammad Hanifah Mazlan
14. Muhammad Syazwan Ab Razak
15. Mustaffa Mohd Ismail

ACCOMMODATIONS

We suggest nearby accommodations:

1. Scholar's Inn UTM
Reservation: +607 – 553 5197 / +607 – 553 6695
Website: http://www/utm.my/scholars-inn/

2. Pulai Spring Resort
Reservation: +607 – 521 2121
Website: http://www.pulaisprings.com/

3. Rose Cottage Hotel, Taman Universiti
Reservation: +607 – 521 1366
Website: http://www.rosecottagehotel.com/

4. Hotel Austin Paradise, Taman Pulai Utama
Reservation: +607 – 562 6222/ +6016 – 723 6222
Website: http://www.hotelaustinparadise.com/

5. Impiana Hotel, Senai Johor Bharu
Reservation: +607 – 595 8899
Website: http://www.impiana.com/

REGISTRATION FORM

Title: Prof/Dr/Sr/Mr/Mrs/Miss

First/Given Name:
.....

Surname/Last name:
.....

Company:
.....

Email:
.....

Phone:
.....

*** Please tick your suitable time:-**

☐ ~~Series 1 (1st – 3rd April 2019)~~

☐ Series 2 (5th – 7th August 2019)

**** Limited to 30 participants only for each series.***

Registration Fees :

RM 3,500/person per series.

RM1,800 / student – *51% Discount for student. (University, Institution, Politechnic & etc).Please provide valid Matric Card and fees pay before dateline. Limited for 5 students only.*

Registration dateline for Series 2 :

15th July 2019

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 bengkelgng@gmail.com

DAY 1	TENTATIVE
08.30-09.00 AM	**REGISTRATION**
09.00-09.15 AM	**WELCOMING ADDRESS** *(Dean / Director of Geoinformation, Faculty of Built Environment & Surveying)*
09.15-10.30 AM	**SESSION 1: Introduction to GPS** *(Assoc. Prof. Sr. Dr Tajul Ariffin Musa, Dr Abdullah Hisam Omar & Dr. Wan Anom Wan Aris)* 1. GPS / GNSS overview 2. GPS observation techniques 3. Coordinate System & Map Projection 4. GPS Levelling
10.30-11.00 AM	**TEA BREAK**
11.00-12.30 PM	**SESSION 2: Brief on GPS Observation & Fieldwork** *(Assoc. Prof. Sr. Dr Tajul Ariffin Musa, Dr Abdullah Hisam Omar, Dr. Wan Anom Wan Aris & Mr. Nomy Kok)*
12.30-01.30 PM	**LUNCH BREAK**
01.30-05.00 PM	**PRACTICAL 1 : GPS Observation & Data Downloading** *(Mr. Nomy Kok, Muhammad Syazwan Ab Razak, Muhamad Asyraf Zamari, Muhammad Farid Mohd Yazair)*
05.00 PM	**TEA BREAK & DISMISS**

DAY 2	TENTATIVE
08.30-9.30 AM	**SESSION 3 : Brief on Drone Flight Planning & Field Observation** *(Mr. Syaqir Al-Ezree Misni, Mr. Juraidi Ahmad, Dr. Muhammad Zulkarnain Abd Rahman & Muhamad Asyraf Zamari)*
9.30-10.00 AM	**TEA BREAK**
10.00-01.00 PM	**PRACTICAL 2 : Drone Observation** *(Dr. Muhammad Zulkarnain Abd Rahman, Muhamad Asyraf Zamari)*
01.00-02.00 PM	**LUNCH BREAK**
02.00-03.30 PM	**SESSION 4: Drone Techonology & Mapping** *(Assoc. Prof. Dr. Anuar Hj. Ahmad, Mr Juraidi Ahmad & Mr. Syaqir Al-Ezree Misni)* 1. Introduction to Drone 2. Drone flight planning 3. Drone image processing requirements
03.30-05.00 PM	**LAB1 : GPS Data Processing with Trimble Business Centre (TBC) Software** *(Mr.Nomy Kok, Assoc. Prof. Sr. Dr Tajul Ariffin Musa, Dr. Wan Anom Wan Aris, & Muhammad Syazwan Ab Razak)* 1. GPS baseline & network processing for reference stations 2. GCP processing & checking 3. Coordinate transformation (UTM CTP software)
05.00 PM	**TEA BREAK & DISMISS**

DAY 3	TENTATIVE
08.30-10.30 AM	**LAB 2 (*PART 1*) : Drone Data Processing with Agisoft Software** *(Mr. Juraidi Ahmad, Dr. Muhammad Zulkarnain Ab Rahman, Dr. Ivin Amri Musliman &)* 1. Aerial photo preparation 2. Geo-referencing 3. Generating orthophoto & DEM
10.30-11.00 AM	**TEA BREAK**
11.00-12.30 PM	**LAB 2 (*PART 2*) : Drone Data Processing with Agisoft Software**
12.30-01.30 PM	**LUNCH BREAK**
01.30-03.30 PM	**LAB 2 (*PART 3*) : Drone Data Processing with Agisoft Software**
03.30-04.30 PM	**QUESTION & ANSWER SESSION**
04.30-05.00 PM	**CLOSING CEREMONY**
05.00 PM	**TEA BREAK & DISMISS**

CONTACTS

For further inquiries, please contact :

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