

SURVEY CAMP I

SBEU 2141

BRIEFING ON SURVEY CAMP I

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Innovating Solutions

UTM PAGOH



BACHELOR OF GEOMATICS ENGINEERING WITH HONOURS

SURVEY CAMP I (SBEU 2141)

UTM JOHOR BAHRU CAMPUS
17 FEBRUARY 2024 – 26 FEBRUARY 2024



COURSE INFORMATION

School/Faculty:	Faculty of Built Environment and Surveying		
Program name:	Bachelor of Geomatics Engineering with Honours		
Course code:	SBEU2141	Academic Session/Semester:	2023-2024/1
Course name:	Survey Camp I – Engineering Survey + Geodetic Control	Pre/co requisite (course name and code, if applicable):	Null
Credit hours:	1		
Course Synopsis:	<p>This subject focuses on matters pertaining to <i>principles, aspects and basic techniques</i> in data measurement, processing and presentation. The techniques in <i>establishing the planimetric and vertical controls</i> as well as <i>detail survey</i> are discussed in this subject. The techniques for data acquisition from <i>combination of terrestrial and space observation</i>. Development and computation of digital elevation mode, areas, contouring, and volume of earthwork are also emphasized in this subject, which relates to geomatic applications.</p>		

COURSE LEARNING OUTCOME (CLO)

No.	CLO*	PLO	**Taxonomies and ***generic skills	T&L methods	****Assessment methods
CLO1	Demonstrate the technique and skill in engineering survey and control survey using GNSS technique	PLO2 (C2)	A3	Project Based Learning	Pr, PR
CLO2	Organize survey and mapping work using appropriate tools and procedure.	PLO3 (C3A)	P5	Project Based Learning	Pr, PR
CLO3	Deliver the Engineering project in writing and oral presentation	PLO5 (C3C)	CS4	Project Based Learning	Pr, PR
CLO4	Ability to be receptive to new ideas towards self-directed or autonomous learning in Geomatics Engineering	PLO9 (C4A)	ES5	Project Based Learning	Pr, PR

SURVEY CAMP I COORDINATORS



DR. NURUL IZZATI
ABD KARIM



Sr DR. MOHAMMAD
HANIF HAMDEN



Sr DR. KELVIN TANG
KANG WEE

SURVEY CAMP I SUPPORTING LECTURERS:



PM Sr Dr. Ami
Hassan Md Din



Sr Dr. Othman
Zainon



Sr Dr. Norhadija
Darwin



Sr Dr. Muhammad
Hafiz Mohd Yatim



Dr. Aimi Musa



Dr. Wan Anom
Wan Aris

LABORATORY STAFFS:

Makmal Ukur Kejuruteraan dan Kadasater (UKK)



Encik Azis bin
Ahmad



Encik Mohamad
Fahmi bin
Mohd Nasir



Encik Mustafa
bin Mohd
Ismail



Encik Ramli bin
Mohd Amin

Makmal Geodesi dan Astronomi



Encik Mohd
Shahrul bin
Baharom



Encik Hafizatul
Izan bin Md Paimi

Makmal Sistem Aplikasi Ukur & Pengaturcaraan



Encik Mohd Fadhlán
bin Baharudin

GROUPS

GROUP 1

BIL	NAMA
1	AMAL HAKIM BIN BADRUL NIZAM
2	AMER SALAHUDDEN BIN MOHD SAMSUL
3	AMIR MUQRI BIN ISMAIL
4	ABYNATUL FARAHAIN BINTI NABI
5	FONG YI SHIANG
6	HANNAH BINTI MOHD FISAL

GROUP 2

BIL	NAMA
1	CHANG ZHAN YANG
2	CHONG YAN SIANG
3	KAILASH VIKNESWARAN
4	NOOR HAZWANI BINTI HAMIDI
5	NORHASHIRAH AINI BINTI MOHD NAZERI
6	NUR AINA AFINA BINTI OMAR

GROUP 3

BIL	NAMA
1	MOHAMMAD SYAFIQ AKMAL
2	MUHAMMAD ADAM BIN ZAIRUL ANUAR
3	MUHAMMAD AIMAN HAKIMI BIN ZUL
4	TEO SHI CHENG
5	NUR AISYA NADIRA BINTI MOHD ROZI
6	NUR ALIA NAJWA BINTI SYAMSUMIR

GROUP 4

BIL	NAMA
1	MUHAMMAD ALIF ZULFIQAR BIN ABDUL RAHAMAN
2	MUHAMMAD ANIQ BIN MOHD KHIRUL SHAHEEZAM
3	WONG KAI HONG
4	NUR AMIRAH AFIQAH BINTI SUFFIAN
5	NUR FADZLIN SUHAILA BINTI IBRAHIM
6	NURAZLINA BINTI AHMAD ZULKEFLI

GROUPS

GROUP 5

BIL	NAMA
1	MUHAMMAD FIRDAUS NUKMAN BIN ZAILAN
2	MUHAMMAD HAZIQ BIN MOHD JAMALI
3	MUHAMMAD IKMAL HAKIM BIN RASMAN
4	NURUL SYAFIQAH BINTI JAMIL FAISAL
5	SHARIFAH NABILAH BINTI SYED AHMAD SYAUKI

GROUP 6

BIL	NAMA
1	MUHAMMAD ILHAN HAFIZ BIN MA`AN
2	NUR AKHIMULLAH FALIQ BIN AHMAD FAJAR
3	RIETHVIEEN LOGISVARRAN
4	SITI NURLIYANA BINTI MOHD NAZRI
5	YONG MEI LING

GROUP 7

BIL	NAMA
1	SYAMIL BIN MOHD NASIR
2	MUHAMMAD AQIL IQRAM BIN AZAMI
3	ZULHILMI HAMIZAN HAMZI ZULKIFLI
4	NUR AINA ASYRAN BINTI AFFENDI
5	TAN CHONG YAU



IMPORTANT DATES AND VENUE

DATES	TASK
17 – 18 FEBRUARY 2024	<i>LECTURES & INSTRUMENTS BRIEFING</i>
19–20 FEBRUARY 2024	<i>GEODETIC CONTROL DATA ACQUISITION AND PROCESSING</i>
21 – 25 FEBRUARY 2024	<i>ENGINEERING SURVEY (DATA ACQUISITION AND PROCESSING)</i>
26 FEBRUARY 2024	<i>GROUP PRESENTATION</i>

SURVEY CAMP I

- Physical (fieldwork): 39 students
- (7 groups with 5/6 students for each group).
- Data collection will be conducted by around UTM Johor Bahru Campus.
- For data processing, reporting & plotting can be conducted at Makmal Sistem Aplikasi Ukur dan Pengaturcaraan (MSAUP).

SCHEDULE FOR SURVEY CAMP I (FIELDWORK)

Day/ Date/ Venue	Task	Instructor	Time
17 Feb 2024 (Saturday) <i>(MSAUP, MGA, UKK)</i>	<ul style="list-style-type: none"> Geodetic Control Briefing Security and Set up Instrument 	<ul style="list-style-type: none"> Sr Dr. Mohammad Hanif Hamden Lab staff (MGA) 	<ul style="list-style-type: none"> 8.00 am to 12.00pm 2.00 pm -5.00 pm
18 Feb 2024 (Sunday) <i>(MSAUP, MGA, UKK)</i>	<ul style="list-style-type: none"> Engineering Survey Briefing (Traversing & Detail survey) Engineering Surveying Briefing : Levelling 	<ul style="list-style-type: none"> Dr. Nurul Izzati Abd Karim Sr Dr. Kelvin Tang Kang Wee Lab Staff (UKK) 	<ul style="list-style-type: none"> 8.00 am to 12.00 pm 2.00 pm to 5.00 pm
19 Feb 2024 (Monday) <i>(MSAUP, MGA)</i>	<ul style="list-style-type: none"> Geodetic Control : Data Acquisition (<i>*Subject to weather condition</i>) 	<ul style="list-style-type: none"> All lecturers Lab staff 	<ul style="list-style-type: none"> 7.30 am to 5.00 pm
20 Feb 2024 (Tuesday) <i>(MSAUP, MGA)</i>	<ul style="list-style-type: none"> Geodetic Control : Data Processing 	<ul style="list-style-type: none"> Sr Dr. Mohammad Hanif Hamden Lab staff 	<ul style="list-style-type: none"> 7.30 am to 5.00 pm
21 Feb 2024 (Wednesday) <i>(MSAUP, UKK)</i>	<ul style="list-style-type: none"> Engineering Survey : Data Acquisition (Traversing) 	<ul style="list-style-type: none"> All lecturers Lab staff 	<ul style="list-style-type: none"> 7.30 am to 5.00 pm

SCHEDULE FOR SURVEY CAMP I (FIELDWORK)

Day/ Date	Task	Instructor	Time
22 Feb 2024 (Thursday) <i>(MSAUP, UKK)</i>	<ul style="list-style-type: none"> Engineering Survey : Data Acquisition (Traversing & Levelling) 	<ul style="list-style-type: none"> All lecturers Lab staff 	<ul style="list-style-type: none"> 7.30 am to 5.00 pm
23 Feb 2024 (Friday) <i>(MSAUP, UKK)</i>	<ul style="list-style-type: none"> Engineering Survey : Data Acquisition (Detail survey) 	<ul style="list-style-type: none"> All lecturers Lab staff 	<ul style="list-style-type: none"> 7.30am to 5.00 pm
24 Feb 2024 (Saturday) <i>(MSAUP)</i>	<ul style="list-style-type: none"> Engineering Survey : Data Processing <i>Progress Report (Each Group)</i> 	<ul style="list-style-type: none"> All lecturers Lab staff 	<ul style="list-style-type: none"> 7.30am to 5.00 pm
25 Feb 2024 (Sunday) <i>(MSAUP)</i>	<ul style="list-style-type: none"> Engineering Survey : Data Processing 	<ul style="list-style-type: none"> All lecturers Lab staff 	<ul style="list-style-type: none"> 7.30am to 5.00 pm
26 Feb 2024 (Monday)	<ul style="list-style-type: none"> Group Presentation Venue: To be confirmed 	<ul style="list-style-type: none"> All lecturers 	<ul style="list-style-type: none"> 9.00 am to 1.00 pm

VENUE THROUGHOUT SURVEY CAMP I

Day/ Date	VENUE
17 – 22 FEBRUARY 2024	• MAKMAL SISTEM APLIKASI UKUR & PENGATURACARAAN
	• MAKMAL GEODESI DAN ASTRONOMI
	• MAKMAL UKUR KEJURUTERAAN DAN KADASTER



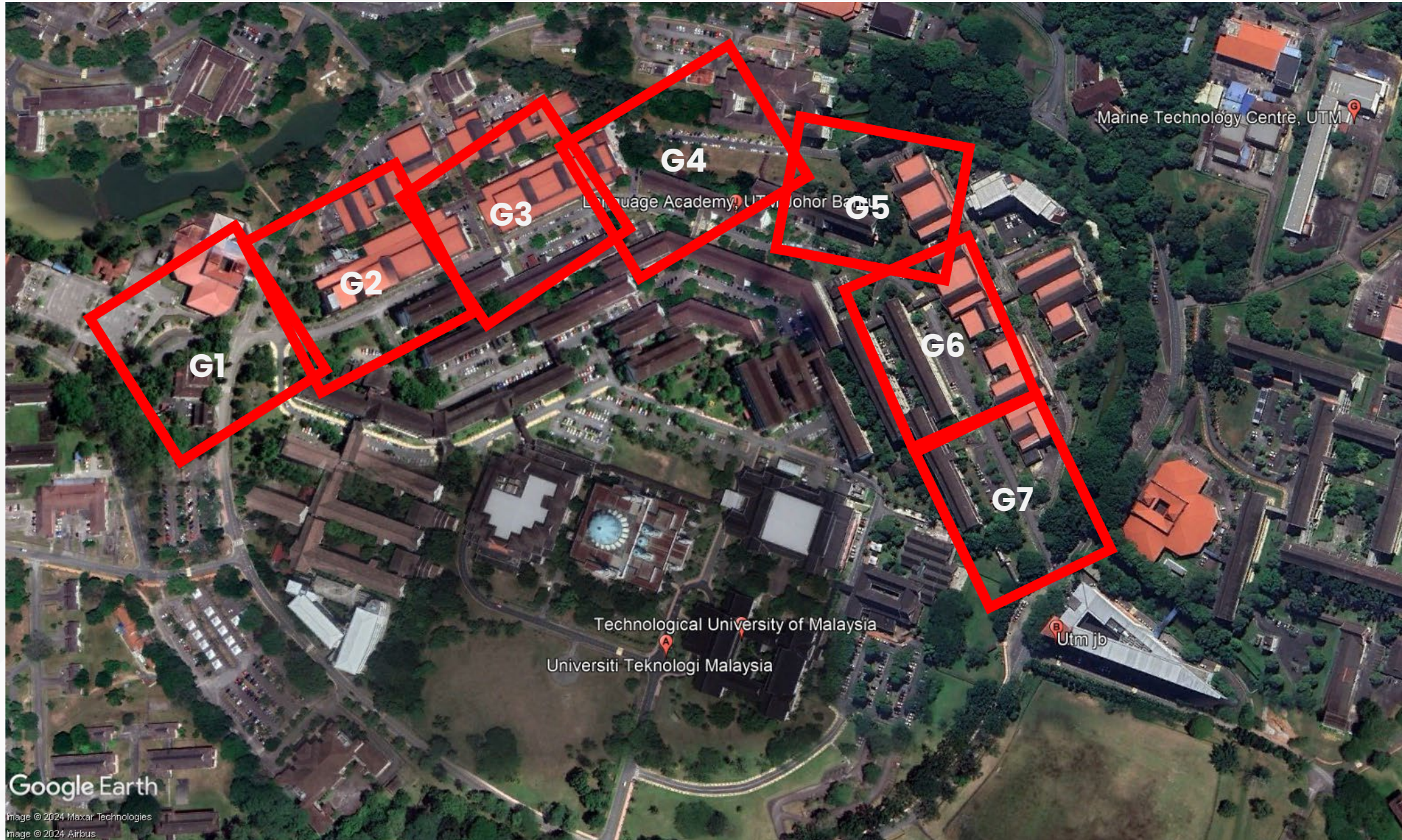
FIELDWORK INSTRUCTION

1. Each group will record and take photos for the fieldwork implementation:
 - Instrument set up & configuration.
 - Data collection.
2. The recorded video & photos must upload to the google drive link upon completion for each task.

SUBMISSION GDRIVE LINK

TASK	GOOGLE DRIVE LINK
LOGBOOK (Daily)	<ul style="list-style-type: none">https://drive.google.com/drive/folders/1fxq9JTslX3yIFv1XyNYmlSnKu3DiR9b2?usp=drive_link
FINAL REPORT (1) Engineering (2) Geodetic (3) Slide Presentation (Before Presentation)	<ul style="list-style-type: none">https://drive.google.com/drive/folders/1GWTKG0YqFfASEYe4dcClwjfpom_vw2IP?usp=drive_link
VIDEO SURVEY CAMP I (Before Presentation)	<ul style="list-style-type: none">https://drive.google.com/drive/folders/1fj15gC-3SJIGs-hnqloUYF2ztLXYmZD7?usp=sharing

AREA TO BE DIVIDED





SURVEY CAMP I

SBEU2141

All The Best

THANK YOU



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Kerana Tuhan untuk Manusia