



32 Course Specification of Surveying 3

I. Course Identification and General Information:						
1	Course Title:	Surveying 3				
2	Course Code & Number:	CE204				
3	Credit hours:	C.H				Credit Hours
		Th.	Tu.	Pr.	Tr.	
		2	1		1	3
4	Study level/ semester at which this course is offered:	3 rd Level/ 1 st semester				
5	Pre –requisite (if any):	Surveying 1 - Surveying 2				
6	Co –requisite (if any):	Statistics				
8	Program (s) in which the course is offered:	Civil Engineering				
9	Language of teaching the course:	English + Arabic				
10	Location of teaching the course:	Class room+ Field				
11	Prepared By:	Bashir Saleh Al-Maswari				
12	Date of Approval					

Prepared by Head of Department
Dr. Abdulkareem
Yahya Al khattabi

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II. Course Description:
This course deals with the real figure of earth and its relationship with survey measurements and geodesy. The main topics will include the following: Coordinate Systems, Geodetic Calculations, Map Projection, Electromagnetic Distance Measurement Theory (EDM), Geodetic National Satellite Systems (GNSS), Triangular Irregular Networks (TIN), principles of errors Theory (Least Squares Theory).

III. Course Intended learning outcomes (CILOs) of the course		Referenced PILOs
a.1	Define the figure of earth and types of geodetic reference systems and applying mathematics for geodesy and survey measurement calculations.	A1
a.2	Describe the relationship between different coordinate systems and map projection science.	A3
a.3	Show the impact of modern survey techniques, (EDM) and (GNSS) to the society.	A4
b.1	Demonstrate proficiency in the integration of information and processes in survey and geodesy works.	B3
b.2	Consider the economic, social, and environmental issues in survey and geodesy works.	B4
c.1	Use the Total Station (EDM) and (GNSS) equipment precisely and accurately considering the survey and measuring requirements.	C1
c.2	Use the modern tools and software packages related to total station (EDM) and GNSS field Data.	C3
c.3	Perform budgets and project briefs for deciding the sufficient technique of survey field works.	C4
c.4	Determine the method and the procedures of solving the geodetic, map projection and geodetic network problems.	C2
d.1	Write the field work report accurately including work description, measurements, calculations, results and necessary drawings.	D1
d.2	Work independently and within a team during field work with realization of the importance of leadership.	D3

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(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
a1. Define the figure of earth and types of geodetic reference systems and applying mathematics for geodesy and survey measurements.	Lecture Multimedia Presentations Reading Problem Solving	Problem set-Written exam Written assignment.
a2. Describe the relationship between different coordinate systems and map projection science.	Lecture Multimedia Presentations Reading Presentation	Participation- Report- Written assignment
a3. Show the impact of modern survey techniques, (EDM) and (GNSS) to the society.	Lecture Multimedia Presentations Group projects	Survey Field work Reports Written assignment

(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
b1. Demonstrate proficiency in the integration of information and processes in survey and geodesy works	Group work Case study	Small projects
b2. Consider the economic, social, and environmental issues in survey and geodesy works.	Lecture Multimedia Presentations Reading Group work	Written exam Small projects

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C Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
c1. Use the Total Station (EDM) and (GNSS) equipment precisely and accurately considering the survey and measuring requirements.	Lecture Multimedia Presentations Survey Field work Group projects Problem Solving	Survey Field practice Reports Written assignment
c2. Use the modern tools and software packages related to total station (EDM) and GNSS field Data	Lecture Multimedia Presentations Reading Computer lab	Small projects project Written exam
c3. Perform budgets and project briefs for deciding the sufficient technique of survey field works.	Multimedia Presentations Brainstorming Case study	Written assignment- Group work-project
c4. Determine the method and the procedures of solving the geodetic, map projection and geodetic network problems.	Lecture Multimedia Presentations Reading Problem Solving	Problem set-Written exam Written assignment

(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
d1. Write the field work report accurately including work description, measurements, calculations, results and necessary drawings.	lecture Case study (field work)	Write the field work report correctly and accurately
d2. Work independently and within a team during field work with realization of the importance of leadership.	Lecture field work	Field work Participation Work in

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IV. Course Content:					
A – Theoretical Aspect:					
Order	Units/Topics List	Learning Outcomes	Sub Topics List	Number of Weeks	Contact Hours
1	Introduction	a1	Brief history of geodesy Definitions	1	2
2	Figure of Earth	a1-c4	Spheroid triangle Geoid Ellipsoid Geodetic reference systems (WGS84)	2	4
3	Coordinate systems and geodetic calculations	a1- a2- c4- b1-b2	Geodetic, Cartesian and Astronomical coordinate systems Forward problem Reverse problem	2	4
4	Map Projection	a2-c4-b1- b2	Map projection concept Map projection systems (UTM)	1	2
5	EDM Theory	a3-b1-b2- c1-c2-d1	Total Station (TS) Instrument (Surveying Applications)	1	2
6	EDM Theory	a3-b1-b2- c1-c2-d1	Total Station (TS) Instrument (Surveying Applications)	1	2
7	GNSS	a3-b1-b2- c1-c2-d1- d2	GPS-GLONASS-GALILEO-COMPASS	2	4
8	Error Theory and Geodetic Networks	a1-a3-c4- b2-d1-d2	Error concept in surveying Source and type of errors Accuracy and precision concept Geodetic networks establishment (TINs) Types of TINS...etc	2	4

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9	Analysis and Adjustment of Surveying and Geodetic Measurements	a1-a3-c4-b1-d1	Conditional equations Measured equations Equal Shift Method Precise adjustment method (Least Square Theory)	2	4
Number of Weeks /and Units Per Semester				14	28

B - Tutorial Aspect:				
Order	Tasks/ Experiments	Number of Weeks	contact hours	Learning Outcomes
1	Introduction	1	1	a1
2	Figure of Earth	1	1	a1-c4
3	Coordinate systems and geodetic calculations	2	2	a1- a2- c4-b1-b2
4	Map Projection	2	2	a2-c4-b1-b2
5	EDM Theory	3	3	a3-b1-b2-c1-c2-d1
6	GNSS	2	2	a3-b1-b2-c1-c2-d1-d2
7	Error Theory and Geodetic Networks	2	2	a1-a3-c4-b2-d1-d2
8	Analysis and Adjustment of Surveying and Geodetic Measurements	1	1	a1-a3-c4-b1-d1
Number of Weeks /and Units Per Semester		14	14	

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C - Training Aspect:				
Order	Tasks/ Experiments	Number of Weeks	contact hours	Learning Outcomes
1	Total station (TS) components and its applications.	1	1	a1-a3-c1
2	Use TS applications: Areas, Tie Distances, Remote Height and Construction Lines.	1	1	a1-a3-c1-d1-d2
3	Use TS applications: Surveying and stakeout.	2	2	a1-a3-c1-d1-d2
4	Use TS in Highway projects.	2	2	a1-a3-c1-d1-d2
5	Use the modern tools and software packages related to Total Station measurements.	3	3	a3-c2
6	Use GNSS in surveying and geodesy.	2	2	a1-a3-c1-d1-d2
7	Use the Internet, modern tools and software packages related to GNSS Data.	2	2	a3-c2
8	Practical Exam	1	1	a3-b2-c1
Number of Weeks /and Units Per Semester		14	14	

V. Teaching strategies of the course:
Lecture Multimedia Presentations Reading Presentations Problem Solving Brainstorming Group projects Field work Computer lab

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VI. Assignments:				
No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Spheroid triangle and Geodetic reference systems.	a1-c1-b1	3	0.75
2	Transformation and rotation between different Coordinate systems.	a1-a2-c1-b1-b2	4	0.75
3	Geodetic Calculations (Forward and Reverse problems)	a1-c1-b1-b2	5	0.75
4	Map projection using UTM system.	a1-a2-c4-b1-b2	6	0.75
5	EDM Theory and Total Station Instrument (TS).	a1-a3-c4-b1-b2- c1-c2	8	1
6	GNSS.	a1-a3-c4-b1-b2- c1-c2	11	1
7	Error Theory and Geodetic Networks (TINs).	a1-c4-b1-b2	13	1
8	Analysis and Adjustment of Surveying and Geodetic Measurements using Least Squares Method.	a1-c4-b1-b2	15	1.5

VII. Reports:				
No	Assignments	Aligned CILOs(symbols)	Week Due	Mar k
1	Use TS applications: Areas, Tie Distances, Remote Height and Construction Lines.	a1-a3-c1-d1-d2	3	3
2	Use TS applications: Surveying and stakeout.	a1-a3-c1-d1-d2	4	3
3	Use TS in Highway projects.	a1-a3-c1-d1-d2	5	2.5
4	Use the modern tools and software packages related to Total Station measurements.	a3-c2	6	2
5	Use GNSS in surveying and geodesy.	a1-a3-c1-d1-d2	8	2.5
6	Use the Internet, modern tools and software packages related to GNSS Data.	a3-c2	11	2

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III. Schedule of Assessment Tasks for Students During the Semester:					
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Written assignments	2,3,4,5, 6,.....14	7.5	5	a1-a2-c4-b1-b2
2	Quizzes.	Two times randomly	7.5	5	a1-a2-c4-b1-b2
3	Mid-term exam.	9 th	30	20	a1-a2-a3-c4-b1-c1
4	Final-exam.	16th	90	60	a1-a2-a3-c4-b1-b2-c1-c3
5	Reports	3rd, 5th, 8th, 11th, 14th, and 16th	15	10	a3-c1-c2-c3-d1-d2
	Sum		150%	100%	

IX. Learning Resources:	
<ul style="list-style-type: none"> Written in the following order: (Author - Year of publication – Title – Edition – Place of publication – Publisher). 	
1- Required Textbook(s) (maximum two).	
	1- CONTROL SURVEYS IN CIVIL ENGINEERING: M. A. R. Cooper, 1987 Collins Professional and Technical Books.
2- Essential References.	
	1- CONTROL SURVEYS IN CIVIL ENGINEERING: M. A. R. Cooper, 1987 Collins Professional and Technical Books. 2- المساحة: أنظمة الإحداثيات وقراءة الخرائط – 2002، الدكتور / يوسف صيام، أستاذ المساحة، كلية الهندسة، الجامعة الأردنية- مكتبة العروبة -عمان – الأردن.
3- Electronic Materials and Web Sites etc.	

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X. Course Policies:	
1	Class Attendance: The students should have more than 75 % of attendance in lectures, practical and field works according to rules and regulations of the faculty.
2	Tardy: The students should respect the timing of attending the lectures. They should attend on time.
3	Exam Attendance/Punctuality: The student should attend the exam 15 minutes earlier. The punctuality should be implemented according to rules and regulations of the faculty for midterm, Practical and final exams.
4	Assignments & Reports: The assignment is given to the students after each lecture or chapter, the student has to submit all the assignments for checking on time. The student must submit the report for checking on time.
5	Cheating: If any cheating occurred during the examination, the student is not allowed to continue and he/she has to face the examination committee for enquiries .
6	Plagiarism: The student will be terminated from the Faculty, if one student attends the exam on another behalf according to the policy, rules and regulations of the university.
7	Other policies: -All the teaching materials should be kept out the examination hall. -The Mobile phone and all digital media are not allowed. -There should be a respect between the students themselves and their teacher.

Reviewed By	<u>Vice Dean for Academic Affairs and Post Graduate Studies</u> <u>Dr. Tarek A. Barakat</u> <u>Dr. Mohammad Algorafi</u>
	<u>Deputy Rector for Academic Affairs Dr. Ibrahim AlMutaa</u> <u>Dr. Ahmed mujahed</u> <u>Dr. Munaser Alsubri</u>

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Course Plan (Syllabus) of Surveying 3

I. Information about Faculty Member Responsible for the Course:						
Name of Faculty Member	Bashir Saleh Al-Maswari	Office Hours				
Location & Telephone No.		SAT	SUN	MON	TUE	WED
E-mail		2	2	2		

II. Course Identification and General Information:						
1-	Course Title:	Surveying 3				
2-	Course Number & Code:	CE204				
3-	Credit hours:	C.H				Credit Hours
		Th.	Tu.	Pr.	Tr.	
		2	1		1	3
4-	Study level/year at which this course is offered:	3 rd Level/ 1 st Semester				
5-	Pre –requisite (if any):	Surveying 1 - Surveying 2				
6-	Co –requisite (if any):	Statistics				
7-	Program (s) in which the course is offered	Civil Engineering				
8-	Language of teaching the course:	English + Arabic				
9-	System of Study:	Semester				
10-	Mode of delivery:	Lecture + practical + lab				
11-	Location of teaching the course:	Class room +lab				

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III. Course Description:

This course deals with the real figure of earth and its relationship with survey measurements and geodesy. The main topics will include the following: Coordinate Systems, Geodetic Calculations, Map Projection, Electromagnetic Distance Measurement Theory (EDM), Geodetic National Satellite Systems (GNSS), Triangular Irregular Networks (TIN), principles of errors Theory (Least Squares Theory).

IV. Intended learning outcomes (ILOs) of the course:

- Brief summary of the knowledge or skill the course is intended to develop:
 - a.1 Define the figure of earth and types of geodetic reference systems and applying mathematics for geodesy and survey measurement calculations. A1
 - a.2 Describe the relationship between different coordinate systems and map projection science. A3
 - a.3 Show the impact of modern survey techniques, (EDM) and (GNSS) to the society. A4
 - b.1 Demonstrate proficiency in the integration of information and processes in survey and geodesy works. B3
 - b.2 Consider the economic, social, and environmental issues in survey and geodesy works. B4
 - c.1 Use the Total Station (EDM) and (GNSS) equipment precisely and accurately considering the survey and measuring requirements. C1
 - c.2 Use the modern tools and software packages related to total station (EDM) and GNSS field Data. C3
 - c.3 Perform budgets and project briefs for deciding the sufficient technique of survey field works. C4
 - c.4 Determine the method and the procedures of solving the geodetic, map projection and geodetic network problems. C2
 - d.1 Write the field work report accurately including work description, measurements, calculations, results and necessary drawings. D1
 - d.2 Work independently and within a team during field work with realization of the importance of leadership. D3

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V.Course Content:				
<ul style="list-style-type: none"> Distribution of Semester Weekly Plan Of course Topics/Items and Activities. 				
A – Theoretical Aspect:				
Order	Topics List	Sub Topics List	Week Due	Contact Hours
1	Introduction	Brief history of geodesy Definitions	1	2
2	Figure of Earth	Spheroid triangle Geoid Ellipsoid Geodetic reference systems (WGS84)	2,3	4
3	Coordinate systems and geodetic calculations	Geodetic, Cartesian and Astronomical coordinate systems Forward problem Reverse problem	4,5	4
4	Map Projection	Map projection concept Map projection systems (UTM)	6	2
5	EDM Theory	Total Station (TS) Instrument (Surveying Applications)	7	2
6	Midterm Exam		8	2
7	EDM Theory	Total Station (TS) Instrument (Surveying Applications)	9	2
8	GNSS	GPS-GLONASS-GALILEO-COMPASS	10,11	4
9	Error Theory and Geodetic Networks	Error concept in surveying Source and type of errors Accuracy and precision concept Geodetic networks establishment (TINs) Types of TINS...etc.	12,13	4
10	Analysis and Adjustment of	Conditional equations Measured equations	14,15	4

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1	Spheroid triangle and Geodetic reference systems.	a1-c1-b1	3	0.75
2	Transformation and rotation between different Coordinate systems.	a1-a2-c1-b1-b2	4	0.75
3	Geodetic Calculations (Forward and Reverse problems)	a1-c1-b1-b2	5	0.75
4	Map projection using UTM system.	a1-a2-c4-b1-b2	6	0.75
5	EDM Theory and Total Station Instrument (TS).	a1-a3-c4-b1-b2-c1-c2	8	1
6	GNSS.	a1-a3-c4-b1-b2-c1-c2	11	1
7	Error Theory and Geodetic Networks (TINs).	a1-c4-b1-b2	13	1
8	Analysis and Adjustment of Surveying and Geodetic Measurements using Least Squares Method.	a1-c4-b1-b2	15	1.5

VIII. Reports:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Use TS applications: Areas, Tie Distances, Remote Height and Construction Lines.	a1-a3-c1-d1-d2	3	3
2	Use TS applications: Surveying and stakeout.	a1-a3-c1-d1-d2	4	3
3	Use TS in Highway projects.	a1-a3-c1-d1-d2	5	2.5
4	Use the modern tools and software packages related to Total Station measurements.	a3-c2	6	2
5	Use GNSS in surveying and geodesy.	a1-a3-c1-d1-d2	8	2.5
6	Use the Internet, modern tools and software packages related to GNSS Data.	a3-c2	11	2

IX. Schedule of Assessment Tasks for Students During the Semester:

Assessment	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment
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1	Written assignments	2,3,4,5, 6...14	7.5	5
2	Quizzes.	Two times randomly	7.5	5
3	Mid-term exam.	9 th	30	20
4	Final-exam.	16 th	90	60
5	Reports	3rd, 5th, 8th, 11th, 14th, and 16th	15	10
	Sum		150	100%

X. Learning Resources:	
<ul style="list-style-type: none"> • Written in the following order: (Author – Year of publication – Title – Edition – Place of publication – Publisher). 	
1- Required Textbook(s) (maximum two).	
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XI. Course Policies:	
Unless otherwise stated, the normal course administration policies and rules of the Faculty of ----- apply. For the policy, see: -----	
1	Class Attendance: The students should have more than 75 % of attendance according to rules and regulations of the faculty.
2	Tardy: The students should respect the timing of attending the lectures. They should attend within 1 minutes from starting of the lecture.
3	Exam Attendance/Punctuality: The student should attend the exam on time. The punctuality should be implemented according to rules and regulations of the faculty for midterm exam and final exam.
4	Assignments & Projects: The assignment is given to the students after each chapter, the student has to submit all the assignments for checking on time.
5	Cheating: If any cheating occurred during the examination, the student is not allowed to continue and he/she has to face the examination committee for enquiries .
6	Plagiarism: The student will be terminated from the Faculty, if one student attends the exam on another behalf according to the policy, rules and regulations of the university.
7	Other policies: -All the teaching materials should be kept out the examination hall. -The mobile phone is not allowed. -There should be a respect between the student and his teacher.

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