







الجمهوريسة اليمنسية وزارة التعليم العالسي والبحث العلمي جـــــامعة صــــنعاء كلية البترول والموارد الطبيعية

# مواصفات مقرر: الاستكشاف الكهربائي والكهرومغناطيسي

Course Specification of: Electrical & Electromagnetism Exploration

G	المعلومات العامة عن المقرر General information about the course					
.1	اسم المقرر Course Title	الاستكشاف الكهربائي والكهرومغثاطيسي Electrical &Electromagnetism Exploration				
.2	رمز المقرر ورقمه Course Code and Number	GEOS 452				
		Credit Hours المعتمدة			الإجمالي	
.3	الساعات المعتمدة للمقرر Credit Hours	محاضرات Lecture	عملي Practical	سمنار/تمارین Seminar/Tutorial	تدریب Training	Total
		2	1	-	-	3
.4	المستوى والفصل الدراسي Study Level and Semester	4 <sup>th</sup> level, 2 <sup>nd</sup> semester				
.5	المتطلبات السابقة المقرر (إن وجدت) Pre-requisites (if any)	Geos 334				
.6	المتطلبات المصاحبة (إن وجدت) Co-requisites (if any)	-				
.7	البرنامج الذي يدرس له المقرر Program(s) in which the course is offered	Bachelor	of Geosc	iences (Geophysic	es Track)	
.8	لغة تدريس المقرر Language of teaching the course	English/A	Arabic			
.9	نظام الدراسة Study System	Academic year of two semesters				
.10	مكان تدريس المقرر Location of teaching the course	Faculty of Petroleum and Natural Resources				
.11	اسم معد(و) مواصفات المقرر Prepared by	Assoc.Prof. Ahmed Alaydrous				
.12	تاریخ اعتماد مجلس الجامعة Date of Approval	2020				

## وصف المقرر Course Description

وصف المقرر ر بالإنجليزية

For students undertaking this course, the aim is to introduce the basic concepts and applications of electricity and magnetism. Geophysicists are employed in a wide range of industries, including petroleum and mineral exploration, groundwater, contaminants and salinity evaluation. This course investigates geophysical techniques, covering topics in electrical and electromagnetics. The course also involves methods of geophysical data analysis, visualization and interpretation through a series of laboratories.

## مخرجات تعلم المقرر (Course Intended Learning Outcomes (CILOs)

بعد الانتهاء من دراسة المقرر سوف يكون الطالب قادرا على أن: || After completing the course, the student will be able to:

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Dean of the Faculty Assoc.Prof. Bassim AlKhirbash

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a1.	Define the concept of electric charges and	- a1
	describe the types of charge distributions.	
a2.	Contrast between electric and magnetic fields	– a2
	and their effects on charges and currents.	
a3.	Demonstrate the relationships between electric	a3.
	and magnetic fields and appreciate that light is a	
	consequence of this relationship.	
b1.	Distinguish the different ways to calculate the	-b1
	electric fields.	
b2.	Connect between electric and magnetic field	- b2
	through Maxwell's equations and relate it to the	
	properties of the fields it describes.	
c1.	Apply Coulomb's and Gauss's laws to calculate	- c1
	the electric field of a charged body.	
c2.	Carry out field applications on both electrical	- c2
	trenching and vertical electrical soundings	
d1.	Collaborate effectively within a team.	- d1
d2.	Acquire entrepreneurial skills to prepare	- d2
	technical reports.	

	ات التعلم للبرنامج:	مخرج	مواءمة مخرجات تعلم المقرر مع
Alignn	nent of CILOs (Course Intended Learning Outcomes) to PILOs (Progra	ım Inter	
	مخرجات التعلم المقصودة من المقرر		مخرجات التعلم المقصودة من البرنامج
	(Course Intended Learning Outcomes)	(Prog	ram Intended Learning Outcomes)
		(	(تكتب جميع مخرجات البرنامج كما هي رمزا ونصا
a1.	Define the concept of electric charges and describe the types of charge distributions.	A1	
a2.	Contrast between electric and magnetic fields and	A2	
	their effects on charges and currents.		
a3.	Demonstrate the relationships between electric and		
	magnetic fields and appreciate that light is a	A3	
	consequence of this relationship.		
b1.	Distinguish the different ways to calculate the electric fields.	B2	
<b>b2.</b>	Connect between electric and magnetic field through		
	Maxwell's equations and relate it to the properties of	B2	
	the fields it describes.		
c1.	Apply Coulomb's and Gauss's laws to calculate the	C2	
	electric field of a charged body.		
c2.	Carry out field applications on both electrical	С3	
	trenching and vertical electrical soundings		
d1.	Collaborate effectively within a team.	D1	
			1

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d2.



Acquire entrepreneurial skills to prepare technical





**D3** 



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rep	orts.			
	والتعلم والتقويم	حيات	ات التعلم باسترات	مه اءمة مخد
Alignmen	t of CILOs to Teaching and Assessment Strategies	* *		.5
	<u> </u>			
	والفهم) باستراتيجية التعليم والتعلم والتقويم:	ا ف	حات تعلم المقرر (المع	أولا مواعمة مخر
First, Al	ignment of Knowledge and Understanding CILOs		, 5,5, 5	
THSt. AI	agnment of Knowledge and Onderstanding C12:05 مخرجات المقرر/ المعرفة والفهم		استراتيجية التعليم	استراتيجية التقويم
	Knowledge and Understanding CILOs		والتعلم	Assessment
	Mitwicket and Orderstanding Choos			Strategies
a1 -	Define the concept of electric charges and descri	he.	Teaching Strategies Interactive Lectures	Examinations,
ai-	the types of charge distributions.		Discussion	Assignments,
a2 -	Contrast between electric and magnetic fields a	nd	Case study	Oral presentations
	their effects on charges and currents.			
a3 -	Demonstrate the relationships between electric a	nd		
	magnetic fields and appreciate that light is	a		
	consequence of this relationship.			
	18 Marie 18	. 4 4		*
	الذهنية) باستراتيجية التدريس والتقويم:	ارات	جات تعلم المقرر (المه	تانيا: مواءمه مخر
Second:	Alignment of Intellectual Skills CILOs			
	مخرجات المقرر/ المهارات الذهنية		استراتيجية التعليم	استراتيجية التقويم
	Intellectual Skills CILOs		والتعلم	Assessment
			<b>Teaching Strategies</b>	Strategies
b1 -	Distinguish the different ways to calculate the		Discussion	Essay test,
	electric fields.  Connect between electric and magnetic field throu		Demonstration Brain storm	Assignments, Oral
b2 -	Maxwell's equations and relate it to the properties	D	Problem solving	presentations.
	the fields it describes.		C	
	and including described.			<u> </u>
	، المهنية والعملية) باستراتيجية التدريس والتقويم:	ا ات	حات تعلم المقرر (المه	ثالثا مه اعمة مخ
Thinds			'	<u></u>
Inira: A	Alignment of Professional and Practical Skills			"
	مخرجات المقرر/ المهارات المهنية والعملية	,	استراتيجية التعليم والتع	استراتيجية التقويم
	Professional and Practical Skills CILOs		<b>Feaching Strategies</b>	Assessment
c1-	Apply Coulomb's and Gauss's laws to calculate	Tut	orials & practical	Strategies Achievement
C I-	the electric field of a charged body.		sses,	tests
	the electric field of a charged body.			
<b>c2</b> -	Carry out field applications on both electrical	cas	e study,	Chart Drawing
<b>c2</b> -	· ·	cas Cor	·	

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رابعا: مواءمة مخرجات تعلم المقرر (المهارات العامة) باستراتيجية التدريس والتقويم: Fourth: Alignment of Transferable (General) Skills CILOs			
	مخرجات المقرر Transferable (General) Skills CILOs	استراتيجية التعليم والتعلم Teaching Strategies	استراتيجية التقويم Assessment Strategies
d1-	Collaborate effectively within a team.	Small group working	Achievement
d2-	Acquire entrepreneurial skills to prepare technical reports.	Student-led Seminars Case Study Method	tests Team working

Co	Course Content محتوى المقرر				
Theor	tetical Aspect لجانب النظري	موضوعات ا			
الرقم Order	الموضوعات الرئيسة/ الوحدات Topic List / Units	الموضوعات الفرعية Sub Topics List	عدد الأسابيع Number of Weeks	الساعات الفعلية Contact Hours	رموز مخرجات التعلم للمقرر (CILOs)
1	Vector analysis	Coulomb's law and its applications.	1	2	a1 a2 b1 b2 d1 d2
2	Electric field and forces.	Electric potential, Gauss's law and its applications	1	2	a2 a3 b1 c3 d1 d2
3	Electric dipole, Electric potential, Energy and power in electric circuits.	(Millikan oil drop experiment)	1	2	a2 a3 b1 c3 d1 d2
4	Maxwell's Equations	Electrical Resistivity/Conductivity and Rocks	2	4	a2 a3 b1 c3 d1 d2
5	Effect of dielectric.		1	2	a2 a3 b1 c3 d1 d2
6	Time-domain electromagnetics	Frequency-domain electromagnetics (1-D) Frequency-domain electromagnetics (1, 2-D)	2	4	a3 b2 c1 c2 d1 d2
7	Molecular model of induced charge Current	Resistance and Electromotive force. Magnetic field.	1	2	a3 b2 c1 c2 d1 d2
8	Magnetic force.	Energy stored in magnetic field, Magnetic ring.	1	2	a3 b2 c1 c2 d1 d2
9	Electrical and Electromagnetic Methods	Classifications and their Importance in Geo- exploration	2	4	a1 b1 b2 c1 c2 d1 d2
10	Resistivity Method	Interpretation of Resistivity Data. Field Applications.	2	4	a1 b1 b2 c1 c2 d1

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			d2
عد الأسابيع والساعات الفعلية Number of Weeks /and Contact Hours Per Semester	14	28	

Prac	الموضوعات العملية (إن وجدت) Practical Aspect (if any)			
الرقم Order	Order Practical / Exercises/ Tutorials topics Number of Weeks Contact Hours			
1	Introduction to Resistivity	1	2	a1 b1 b2 c1 c2
2	Resistivity Sounding	2	4	b1 b2 c1 c2 d1 d2
3	Modeling resistivity data	2	4	b1 b2 c1 c2 d1 d2
4	Electromagnetic methods: EM conductivity	1	2	a1 b1 b2 c1 c2
5	EM conductivity	1	2	a1 b1 b2 c1 c2
6	GeoModel - Electromagnetic Conductivity Surveys		4	b1 b2 c1 c2 d1 d2
7			2	a1 b1 b2 c1 c2
N	اجمالي الأسابيع والساعات الفعلية umber of Weeks /and Contact Hours Per Semester	10	20	

# استراتيجيات التعليم والتعلم Teaching Strategies

- Interactive Lectures
- Discussion
- Brain storm
- Problem solving
- Small group working
- Student-led Seminars

r	الأنشطة والتكليفات Fasks and Assignments				
۶ No	التكليف/ الواجب Assignments/ Tasks	نوع التكليف (فردي/تعاوني)	الدرجة المستحقة Mark	أسبوع التثفيذ Week Due	خرجات التعلم CILOs (symbols)
1					
	إجمالي الدرجة Total Score				

Learning Assessment تقييم التطم					
الرقم .No	أنشطة التقييم Assessment Tasks	أسوع التقييم Week due	الدرجة Mark	نسبة الدرجة إلى الدرجة النهائية Proportion of Final Assessment	مخرجات التعلم (symbols)

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1	Lab Exercises	Weekly	20	13.4%	b1, b2, c1, c2
2	Participation	Weekly	10	6.7%	a1, a2, c1, c2, d1
3	Quizzes	End of a topic	10	6.7%	a1, a2, a3 b1, b2,
4	Mid-Term written exam	Week 7	20	13.3%	a1, a2, b1, b2,
5	Final lab Exam	Week 14	20	13.3%	b1, b2, c1, c2, d1
6	Final Exam (theoretical)	Week 16	70	46.6%	all
	الإجمالي Total			100.00%	

## مصادر التعلم Learning Resources

### المراجع الرئيسة (لا تزيد عن مرجعين) Required Textbook(s)

- 1. Physics for Scientists and Engineers, sixth edition. By: Serway, Beichner, Saunders College Publishing 2000
- 2. Keary, P., Brooks, M. and I. Hill, 2002, An Introduction to Geophysical Exploration, 3rd edt., Blackwell Science, Oxford.
- 1. Dobrin, M. B. and Savit, C. H., 1988, Introduction to Geophysical Prospecting, McGraw
- 2. Hill, New York. Introduction to Physics 6th edition by Halliday and Resnick, 2000Wiley
- 3. Looking into the Earth: An introduction to geological geophysics; Alan E. Mussett, M. Aftab Khan. Cambridge University Press, 2009.

#### المصادر الإلكترونية ومواقع الإنترنت .Electronic Materials and Web Sites etc

http://www.hyperphysics.com/

www.spe.com

	Course Policies:
1	<ul> <li>Class Attendance: <ul> <li>Students are expected to attend classes regularly and promptly.</li> <li>The attendance should not be less than 80%.</li> <li>If the student has been absent, he is responsible for finding out any missed material by consulting other students or going to the professor's office hours.</li> </ul> </li> </ul>
2	<ul><li>Tardy:</li><li>- Attendance and arriving on time for the class are necessary. If the student is late, he will be prevented from class.</li></ul>
3	Exam Attendance/Punctuality: - According to the rules the student gets absent in the exam of the course.
4	Assignments & Projects: - Papers survey or projects should be submitted by the time detriment by the professor.
5	Cheating: - According to the rules, cheating is a serious offense and will always result in an imposition of a penalty. The penalties that can be started from the range of canceling the result of the course to

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	canceling the student's admission.
6	Plagiarism:
	-Plagiarism is a serious offense and will always result in an imposition of a penalty. The penalties
	that can be started by making a zero mark for the work.
7	Other policies:
	-The student should by a commitment by the rules inside class and university. Therefore, he is
	expected to show respect for his classmate, instructors &others.









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قسم/ برنامج: العلوم الجيولوجية Geosciences (مسار الجيوفيزياء Geophysics)

العام الجامعي: 2020-2021م

# خطة مقرر: الاستكشاف الكهربائي والكهرومغناطيسي

Course Plan (Syllabus): Electrical & Electromagnetism Exploration

Information about Faculty Member Responsible for the Course معلومات عن أستاذ المقرر							
الاسم Name	Assoc.Prof. Ahmed الساعات المكتبية (أسبوعيا) Alaydrous Office Hours						
المكان ورقم الهاتف Location &Telephone No.	777005199	السبت SAT	الأحد SUN	الاثنين MON	الثلاثاء TUE	الأربعاء WED	الخميس THU
البريد الإلكتروني E-mail	a.alaydrous@su.edu.ye						

(	General information about the course معومات عامة عن المقرر					
.1	اسم المقرر Course Title	الاستكشاف الكهربائي والكهرومغناطيسي Electrical &Electromagnetism Exploration				
.2	رمز المقرر ورقمه Course Code and Number			<b>GEOS 452</b>		
		Cı	redit Hour	الساعات المعتمدة ع		11 21
.3	الساعات المعتمدة للمقرر Credit Hours	محاضرات Lecture	عملي Practical	سمنار/تمارین Seminar/Tutorial	تدریب Training	الإجمالي Total
		2	1	-	-	3
.4	المستوى والفصل الدراسي Study Level and Semester	4 <sup>th</sup> level, 2 <sup>nd</sup> semester				
.5	المتطلبات السابقة للمقرر Pre-requisites	Geos 334				
.6	المتطلبات المصاحبة (إن وجدت) Co-requisite	-				
.7	البرنامج الذي يدرس له المقرر Program (s) in which the course is offered	Bachelor of Geosciences (Geophysics Track)				
.8	لغة تدريس المقرر Language of teaching the course	English/Arabic				
.9	مكان تدريس المقرر Location of teaching the course	Faculty of Petroleum and Natural Resources				

## وصف المقرر Course Description

For students undertaking this course, the aim is to introduce the basic concepts and applications of electricity and magnetism. Geophysicists are employed in a wide range of industries, including petroleum and mineral exploration, groundwater, contaminants and salinity evaluation. This course investigates geophysical techniques, covering topics in electrical and electromagnetics. The course also involves methods of geophysical data analysis, visualization and interpretation through a series of laboratories.

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Course Intended Learning Outcomes	مخرجات تعلم المقرر (CILOs)
After completing the course, the student will be able to:	بعد الانتهاء من دراسة المقرر سوف يكون الطالب قادرا على
	ان:
<b>a1</b> Define the concept of electric charges and describe the types of charge distributions.	- a1
a2 Contrast between electric and magnetic fields and	- a2
their effects on charges and currents.	
<b>a3</b> Demonstrate the relationships between electric and	-a3
magnetic fields and appreciate that light is a	
consequence of this relationship.	
<b>b1</b> Distinguish the different ways to calculate the	-b1
electric fields.	
<b>b2</b> Connect between electric and magnetic field through	- b2
Maxwell's equations and relate it to the properties of the	
fields it describes.	
c1 Apply Coulomb's and Gauss's laws to calculate the	- c1
electric field of a charged body.	
c2 Carry out field applications on both electrical	- c2
trenching and vertical electrical soundings	
d1 Collaborate effectively within a team.	- d1
d2 Acquire entrepreneurial skills to prepare technical	- d2
reports.	

	محتوى المقرر Course Content					
The	خطة تنفيذ الموضوعات النظرية Theoretical Aspect					
ا <b>لرقم</b> Order	الوحدات (الموضوعات الرئيسة) Units	الموضو عات التفصيلية Sub Topics	الأسبوع Week Due	الساعات الفعلية Con. H		
1	Vector analysis	Coulomb's law and its applications.	Week 1	2		
2	Electric field and forces.	Electric potential, Gauss's law and its applications	Week 2	2		
3	Electric dipole	Electric potential, Energy and power in electric circuits. (Millikan oil drop experiment)	Week 3	2		
4	Maxwell's Equations	Electrical Resistivity/Conductivity and Rocks	Week 4-5	4		
5	Effect of dielectric.		Week 6	2		
6	Midterm exam		Week 7	2		

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7	Time-domain electromagnetics	Frequency-domain electromagnetics (1-D) Frequency-domain electromagnetics (1, 2-D)	Week 8-9	4
8	Molecular model of induced charge Current	Resistance and Electromotive force.  Magnetic field.	Week 10	2
9	Magnetic force.	Energy stored in magnetic field, Magnetic ring.	Week 11	2
10	Electrical and Electromagnetic Methods	Classifications and their Importance in Geo-exploration	Week 12-13	4
11	Resistivity Method	Interpretation of Resistivity Data. Field Applications.	Week 14-15	4
12	Final exam		Week 16	2
	ىات الفعلية Number of Weeks /an	16	32	

Prac	خطة تنفيذ موضوعات الجانب العملي Practical / Training/ Tutorials/ Exercises Aspects				
ا <b>لرق</b> م Order	موضوعات العملي/ المهام / التمارين Practical/ Tutorials/ Exercises Aspects	الأسبوع Week Due	الساعات الفعلية Cont. H		
1	Introduction to Resistivity	Week 1	2		
2	Resistivity Sounding	Week 2-3	4		
3	Modeling resistivity data	Week 4-5	4		
4	Electromagnetic methods: EM conductivity	Week 6	2		
5	Mid term exam	Week 7	2		
6	EM conductivity	Week 8	2		
7	GeoModel - Electromagnetic Conductivity Surveys	Week 9-10	4		
8	Ground Penetrating Radar: Introduction	Week 11	2		
9	Final lab exam	Week 14	2		
	12	24			

## استراتيجيات التعليم والتعلم Teaching Strategies

- Interactive Lectures
- Discussion
- Demonstration
- Brain storm
- Problem solving
- Small group working

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#### Student-led Seminars

T	الأنشطة والتكليفات Tasks and Assignments			
م No	التكليف/ الواجب Assignments	نوع التكليف (فردي/تعاوني)	الدرجة المستحقة Mark	أسبوع التنفيذ Week Due
1				
	إجمالي الدرجة Total Score		15/150 10/ 100	

]	Learning Assessment تقويم التعلم				
م No	أساليب التقويم Assessment Method	موعد(أسبوع) التقويم Week Due	الدرجة Mark	الوزن النسبي% Proportion of Final Assessment	
1	Lab Exercises	Weekly	20	13.4%	
2	Participation	Weekly	10	6.7%	
3	Quizzes	End of a topic	10	6.7%	
4	Mid-Term written exam	Week 7	20	13.3%	
5	Final lab Exam	Week 14	20	13.3%	
6	6 Final Exam (theoretical) Week 16 70 46.6%				
	المجموع Total	150	100.00%		

## مصادر التعلم Learning Resources

### المراجع الرئيسة (لا تزيد عن مرجعين) Required Textbook(s)

- 3. Physics for Scientists and Engineers, sixth edition. By: Serway, Beichner, Saunders College Publishing 2000
- 4. Keary, P., Brooks, M. and I. Hill, 2002, An Introduction to Geophysical Exploration, 3rd edt., Blackwell Science, Oxford.
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### المصادر الإلكترونية ومواقع الإنترنت .Electronic Materials and Web Sites etc

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	Course Policies:
1	Class Attendance:  - Students are expected to attend classes regularly and promptly.  - The attendance should not be less than 80%.  - If the student has been absent, he is responsible for finding out any missed material by consulting other students or going to the professor's office hours.
2	<ul><li>Tardy:</li><li>- Attendance and arriving on time for the class are necessary. If the student is late, he will be prevented from class.</li></ul>
3	Exam Attendance/Punctuality: - According to the rules the student gets absent in the exam of the course.
4	Assignments & Projects: - Papers survey or projects should be submitted by the time detriment by the professor.
5	Cheating: - According to the rules, cheating is a serious offense and will always result in an imposition of a penalty. The penalties that can be started from the range of canceling the result of the course to canceling the student's admission.
6	Plagiarism: -Plagiarism is a serious offense and will always result in an imposition of a penalty. The penalties that can be started by making a zero mark for the work.
7	Other policies: -The student should by a commitment by the rules inside class and university. Therefore, he is

expected to show respect for his classmate, instructors &others.