

مواصفات مقرر: مشروع التخرج (1)

Course Specification of: Graduation Project (1)

المعلومات العامة عن المقرر						
1.	اسم المقرر Course Title	مشروع التخرج (1) (1) Graduation Project (1)				
2.	رمز المقرر ورقمه Course Code and Number	GEOS431				
3.	الساعات المعتمدة للمقرر Credit Hours	الساعات المعتمدة			الإجمالي Total	
		محاضرات Lecture	عملي Practical	سمنار/تمارين Seminar/Tutorial		تدريب Training
		2	0	0	0	2
4.	المستوى والفصل الدراسي Study Level and Semester	المستوى الرابع / الفصل الأول Fourth Year/ first Semester				
5.	المتطلبات السابقة للمقرر (إن وجدت) Pre-requisites (if any)	Student successively pass into the fourth year				
6.	المتطلبات المصاحبة (إن وجدت) Co-requisites (if any)	NA				
7.	البرنامج الذي يدرس له المقرر Program(s) in which the course is offered	بكالوريوس في العلوم الجيولوجية B.Sc. in Geosciences				
8.	لغة تدريس المقرر Language of teaching the course	عربي/ انجليزي Arabic / English				
9.	نظام الدراسة Study System	فصلي Semester				
10.	مكان تدريس المقرر Location of teaching the course	كلية البترول والموارد الطبيعية – جامعة صنعاء Faculty of Petroleum and Natural Resources – Sana'a Uni.				
11.	اسم معد (و) مواصفات المقرر Prepared by	Dr. Ahmed Saif Al-Mikhlaft				
12.	تاريخ اعتماد مجلس الجامعة Date of Approval	2020				

وصف المقرر Course Description

وصف المقرر بالإنجليزية	وصف المقرر بالعربية
<p>Students conduct supervised, independent research in geosciences. It is carried out through an integrated field and laboratory study of an area or topic chosen by the student and his supervisor. This course provide unique opportunities outside the regular classroom for upper level students to engage in independent research in their fourth year of study.</p> <p>Students will develop a research plan, carry out data collection using field and/or laboratory studies, and complete a final report/presentation. Field studies, Laboratory studies/data processing, reference work and work presentation are four major components of this study. Examination committee will be held at the end of each</p>	<p>هذا المقرر اجباري لطلاب قسم العلوم الجيولوجية، والهدف منه هو أن يقوم الطلاب في المستوى الرابع بإجراء بحث تخرج متكامل حقل/ معمل تحت اشراف أحد أعضاء هيئة التدريس علي أي منطقة أو موضوع يختاره الطالب وبمساعدة عضو هيئة التدريس.</p> <p>في هذا السياق يقوم الطالب بتطوير خطة بحثية قابلة للتطبيق، ويبدأ بجمع البيانات الحقلية أو المعملية ويقوم بتحليلها وتفسيرها وكتابة تقرير بذلك يتضمن كل</p>

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semester to evaluate the Progress.

مواصفات البحث العلمي ويعرضه علي
مرحلتين.

مخرجات تعلم المقرر (CILOs) Course Intended Learning Outcomes

After completing the course, the student will be able to:		بعد الانتهاء من دراسة المقرر سوف يكون الطالب قادرا على أن:	
a1.	Describe the objectives, purpose and research methodologies appropriate to their field and how new knowledge is produced	a1 -	يصف الأهداف، الغرض من البحث، وطرق البحث المناسبة للبحث وكيفية انتاج معرفة جديدة.
a2.	Define the technical writing skill terms such as abstract, introduction, results and discussion, conclusion, and references.	a2 -	يعرف باقتدار مفردات مهارات الكتابة العلمية مثل المستخلص، المقدمة، النتائج، المناقشة، الخاتمة والمراجع.
b1.	Propose new ideas for a future project works and problem solving skills	b1 -	يقترح أفكار جديدة لمشاريع مستقبلية واكتساب مهارات حل المشاكل.
b2.	acquire skills for independent and life-long learning	b2 -	يكتسب مهارات التعلم الذاتي ومدى الحياة.
c1.	Demonstrate technical/professional written and verbal communication skills	c1 -	يظهر بوضوح المهارات التقنية/ المهنية و ايضا مهارات التواصل اللفظي والكتابي،
c2.	connect their research, scholarly, or creative work with that of others in their own discipline and in other fields	c2 -	يوصل معلومات استنتاجه البحثي والمعرفي للآخرين من نفس التخصص أو من خارج التخصص.
d1.	Able to function within a team of research scholars and argue how research, scholarly and creative projects are managed	d1 -	يمارس العمل ضمن فريق ليتعلم كيفية العمل الجماعي وكيفية ادارة المشاريع.

موازنة مخرجات تعلم المقرر مع مخرجات التعلم للبرنامج:

Alignment of CILOs (Course Intended Learning Outcomes) to PILOs (Program Intended Learning Outcomes)

مخرجات التعلم المقصودة من المقرر (Course Intended Learning Outcomes)		مخرجات التعلم المقصودة من البرنامج (Program Intended Learning Outcomes) (تكتب جميع مخرجات البرنامج كما هي رمزا ونصا)	
a1	Describe the objectives, purpose and research methodologies appropriate to their field and how new knowledge is produced	A1	Demonstrate knowledge and understanding of geological-specific theories, paradigms, concepts and principles, in addition to general literature and basic science.
a2	Explain the technical writing skill terms such as abstract, introduction, results and discussion, conclusion, and references.	A2	Explain fundamental geological principles and concepts in theoretical, practical and vocational situations and the possibility of applying them.
b1	Propose new ideas for a future project works and problem solving skills	B2	An ability to apply disciplinary knowledge and skills in solving geological and environmental problems

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b2	acquire skills for independent and life-long learning	B4	Practice critical thinking and creative analysis as an individual to solve any problem (s) that may encounter in the field or lab.
c1	Demonstrate technical/professional written and verbal communication skills	C3	An ability to deal with new and established technologies with efficiency to collect and interpret geological data, recognizing their strengths and limitations.
c2	connect their research, scholarly, or creative work with that of others in their own discipline and in other fields	C5	An ability to collect various geological data, integrate, scientifically interpret, and report them.
d1	Able to function within a team of research scholars and argue how research, scholarly and creative projects are managed.	D1	An ability to function in diverse learning and working environments.

مواءمة مخرجات التعلم باستراتيجيات التعليم والتعلم والتقييم Alignment of CILOs to Teaching and Assessment Strategies		
أولاً: مواءمة مخرجات تعلم المقرر (المعارف والفهم) باستراتيجية التعليم والتعلم والتقييم: First: Alignment of Knowledge and Understanding CILOs		
مخرجات المقرر/ المعرفة والفهم Knowledge and Understanding CILOs	استراتيجية التعليم والتعلم Teaching Strategies	استراتيجية التقييم Assessment Strategies
a1 - Describe the objectives, purpose and research methodologies appropriate to their field and how new knowledge is produced	Discussion Cooperative learning Project-based learning Training	Project work Practical work Individual & group work
a2 - Explain the technical writing skill terms such as abstract, introduction, results and discussion, conclusion, and references.	Practical work	Examination
ثانياً: مواءمة مخرجات تعلم المقرر (المهارات الذهنية) باستراتيجية التدريس والتقييم: Second: Alignment of Intellectual Skills CILOs		
مخرجات المقرر/ المهارات الذهنية Intellectual Skills CILOs	استراتيجية التعليم والتعلم Teaching Strategies	استراتيجية التقييم Assessment Strategies
b1 - Propose new ideas for a future project works and problem solving skills	Discussion Brain storming Project-based learning	Project work Practical work Individual & group work
b2 - acquire skills for independent and life-long learning	Training Practical work	Examination



ثالثاً: مواءمة مخرجات تعلم المقرر (المهارات المهنية والعملية) باستراتيجية التدريس والتقييم:

Third: Alignment of Professional and Practical Skills CILOs

مخرجات المقرر/ المهارات المهنية والعملية Professional and Practical Skills CILOs	استراتيجية التعليم والتعلم Teaching Strategies	استراتيجية التقييم Assessment Strategies
c1- Demonstrate technical/professional written and verbal communication skills	Discussion Brain storming Project-based learning	Project work Practical work Individual & group work
c2- connect their research, scholarly, or creative work with that of others in their own discipline and in other fields	Training Practical work	Examination

رابعاً: مواءمة مخرجات تعلم المقرر (المهارات العامة) باستراتيجية التدريس والتقييم:

Fourth: Alignment of Transferable (General) Skills CILOs

مخرجات المقرر Transferable (General) Skills CILOs	استراتيجية التعليم والتعلم Teaching Strategies	استراتيجية التقييم Assessment Strategies
d1- Able to function within a team of research scholars and argue how research, scholarly and creative projects are managed	Discussion Brain storming Project-based learning Training Practical work	Project work Practical work Individual & group work Examination

محتوى المقرر Course Content

موضوعات الجانب النظري Theoretical Aspect

الرقم Order	الموضوعات الرئيسية/ الوحدات Topic List / Units	الموضوعات الفرعية Sub Topics List	عدد الأسابيع Number of Weeks	الساعات الفعالية Contact Hours	رموز مخرجات التعلم المقرر (CILOs)
1	Project Meeting (1)	Introductory lecture that give appraisal about the importance of graduation project, syllabus discussion, steps taken from project registration up to submission.	W1	2	a1,a2
2	Project Meeting (2)	Project writing: students learn the scientific structure of project writing	W2	2	a1,a2
3	Project Registration	This is agreed between the student and supervisor	W1- W3	2	a1, a2, b1
4	Work Plan and	The work plan can be written by a student assisted by his	W3 – W9	12	a1, a2, b1, b2,

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	Literature Review	supervisor, this should be approximately two pages long and include the (i) title of your project (ii) background information about the subject (iii) objective(s) of your research project (iv) methods used (v) and why this research is significant			c1, c2
5	Field/ laboratory work	Student either synthesize the data or collect the data depending on the project objectives	W9- W12	6	a1, b1, c1, c2, d1
6	Presentation	Student should prepare a talk of 30 mints to illustrate his achievements	W13- W14	4	a1, b1, c1, c2, d1
عدد الأسابيع والساعات الفعلية Number of Weeks /and Contact Hours Per Semester			14	28	

الموضوعات العملية (إن وجدت) Practical Aspect (if any)				
الرقم Order	التجارب العملية/ التمارين / تدريبات Practical / Exercises/ Tutorials topics	عدد الأسابيع Number of Weeks	الساعات الفعلية Contact Hours	رموز مخرجات التعلم Course ILOs
اجمالي الأسابيع والساعات الفعلية Number of Weeks /and Contact Hours Per Semester				

استراتيجيات التعليم والتعلم Teaching Strategies	
<ul style="list-style-type: none"> ▪ Interactive lecture ▪ Demonstration ▪ Presentations ▪ Simulation ▪ Discussion 	

الأنشطة والتكليفات Tasks and Assignments					
م No	التكليف/ الواجب Assignments/ Tasks	نوع التكليف (فردى / تعاونى)	الدرجة المستحقة Mark	أسبوع التنفيذ Week Due	مخرجات التعلم CILOs (symbols)
5					
إجمالي الدرجة Total Score					



تقييم التعلم Learning Assessment					
الرقم No.	أنشطة التقييم Assessment Tasks	أسوع التقييم Week due	الدرجة Mark	نسبة الدرجة إلى الدرجة النهائية Proportion of Final Assessment	مخرجات التعلم CILOs (symbols)
1	Observation	W1-W15	15	10%	a1, a2, b1, b2, c1, c2
2	Discussion	W6-W15	10	15%	a1, a2, b1, b2, c1, c2
3	Portfolios	W6-W15	15	15%	a1, a2, b1, b2, c1, c2
4	Presentation	W15	60	60%	a1, a2, b1, b2, c1, c2
Total الإجمالي				%100	

مصادر التعلم Learning Resources	
توثيق المراجع حسب نظام APA (اسم المؤلف، سنة النشر، اسم الكتاب، دار النشر، بلد النشر).	
Required Textbook(s) المراجع الرئيسية (لا تزيد عن مرجعين)	
Naoum, S.G. (2007) Dissertation Research and Writing for Construction Students. 2 nd ed. Oxford: Butterworth-Heinemann.	
Essential References المراجع المساندة	
Jones, A. (1996) Guidelines for writing. Unpublished report. Liverpool, Smith Institute. Anon. (1996) Guidelines for writing. Unpublished report. Liverpool, Smith Institute.	
Electronic Materials and Web Sites etc. المصادر الإلكترونية ومواقع الإنترنت	
http://www.nwrc.gov/lib/lib_sta.htm : An excellent extensive guide to writing geological articles. Originally designed for USGS type reports, but is quite applicable to other types of papers and manuscripts. Excellent guide for the proper use of stratigraphic, paleontological, mineralogical, petrological, ... etc. terms.	
http://filebox.vt.edu/eng/mech/writing/ : An excellent site with some tips, exercises (in grammar, spelling, vocabulary, punctuation, ... etc.) as well as sample papers.	
http://users.von.uc.edu/brackerw/ScientificWriting.htm : Contains an excellent power point presentation on scientific writing. Has several other resources as well.	
http://www.earthresearch.com/ : Useful website with several tips on writing, and many other useful resources.	

الضوابط والسياسات المتبعة في المقرر Course Policies	
Presentation	
<ul style="list-style-type: none"> - Students should present their achievements at the end of the first semester. - Student should consult with his advisor about scheduling a time and date for the Presentation, at least 7 days from submittal of the report. - Presentations should be 25-to 30-minutes in length. - Evaluation of the presentation will include the student ability to competently respond to questions from the audience. 	
Grading	

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- The grade for the project (1) is 100 mark and it will be based on input from the student's supervisor (40%), and subsequent oral presentation (60%) given equally by the committee members.

Course Policies الضوابط والسياسات المتبعة في المقرر

- The graduation project should be taken in the fourth year in the field of the specialization.
- Registration for the project should be performed according to the provided form (annex1).
- The examination committees consists of three professors, the supervisor and two members, their specialization related to the subject.
- The committee is headed by senior professor that has the highest academic degree.
- The maximum projects that professor can be supervised at the same time are 4 projects.
- The report must be structured according to the standard format for the scientific report. It must contain in addition to the text tables, figures, references, etc., and should include rigorous presentation, analysis, and interpretation of data.
- Evaluation of presentations will be based primarily on the quality of their technical content, but the following considerations also will be factored into the grade:
 - organization;
 - persuasiveness;
 - quality of slides/visual aids;
 - effective use of time;
 - competent response to questions.



قسم/ برنامج: العلوم الجيولوجية
العام الجامعي: 2019-2020م

خطة مقرر: مشروع التخرج (1)

Course Plan (Syllabus): Graduation Project (1)

معلومات عن أستاذ المقرر						
الاسم Name	Ahmed Saif Al-Mikhlafi		الساعات المكتبية (أسبوعياً) Office Hours			
المكان ورقم الهاتف Location & Telephone No.	+967 777554655		السبت SAT	الأحد SUN	الاثنين MON	الثلاثاء TUE
البريد الإلكتروني E-mail	ahmedmikhlaifi@hotmail.com					الأربعاء WED
						الخميس THU

معلومات عامة عن المقرر						
1.	اسم المقرر Course Title	Graduation Project (1)				
2.	رمز المقرر ورقمه Course Code and Number	GEOS431				
3.	الساعات المعتمدة للمقرر Credit Hours	الساعات المعتمدة Credit Hours				الإجمالي Total
		محاضرات Lecture	عملي Practical	سمنار/تمارين Seminar/Tutorial	تدريب Training	
		2	0	0	0	2
4.	المستوى والفصل الدراسي Study Level and Semester	Final Year/ First semester				
5.	المتطلبات السابقة للمقرر Pre-requisites	Student successively pass into the fourth year				
6.	المتطلبات المصاحبة (إن وجدت) Co-requisite					
7.	البرنامج الذي يدرس له المقرر Program (s) in which the course is offered	Geosciences				
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	
Students conduct supervised, independent research in geosciences. It is carried out through an integrated field and laboratory study of an area or topic chosen by the student and his supervisor. This course provide unique opportunities outside the regular classroom for upper level students to engage in independent research in their fourth year of study. Students will develop a research plan, carry out data collection using field and/or laboratory studies, and complete	هذا المقرر اجباري لطلاب قسم العلوم الجيولوجية، والهدف منه هو أن يقوم الطلاب في المستوى الرابع بإجراء بحث تخرج متكامل حقل/ معمل تحت اشراف أحد أعضاء هيئة التدريس علي أي منطقة أو موضوع يختاره الطالب وبمساعدة عضو هيئة التدريس. في هذا السياق يقوم الطالب بتطوير خطة بحثية قابلة للتطبيق، ويبدأ بجمع البيانات الحقلية أو المعملية ويقوم

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a final report/ presentation. Field studies, Laboratory studies/data processing, reference work and work presentation are four major components of this study.

بتحليلها وتفسيرها وكتابة تقرير بذلك يتضمن كل مواصفات البحث العلمي ويعرضة علي مرحلتين.

مخرجات تعلم المقرر (CILOs) Course Intended Learning Outcomes	
After completing the course, the student will be able to:	بعد الانتهاء من دراسة المقرر سوف يكون الطالب قادرا على أن:
a1- Describe the objectives, purpose and research methodologies appropriate to their field and how new knowledge is produced	a1 - يصف الأهداف، الغرض من البحث، وطرق البحث المناسبة للبحث وكيفية انتاج معرفة جديدة.
a2- Explain the technical writing skill terms such as abstract, introduction, results and discussion, conclusion, and references	a2 - يعرف باقتدار مفردات مهارات الكتابة العلمية مثل المستخلص، المقدمة، النتائج، المناقشة، الخاتمة والمراجع.
b1- Propose new ideas for a future project works and problem solving skills	b1 - يقترح أفكار جديدة لمشاريع مستقبلية واكتساب مهارات حل المشاكل.
b2- acquire skills for independent and life-long learning	b2 - يكتسب مهارات التعلم الذاتي ومدى الحياة.
c1- Demonstrate technical/professional written and verbal communication skills	c1 - يظهر بوضوح المهارات التقنية/ المهنية وايضا مهارات التواصل اللفظي والكتابي،
c2- connect their research, scholarly, or creative work with that of others in their own discipline and in other fields	c2 - يوصل معلومات استنتاجه البحثي والمعرفي للآخرين من نفس التخصص أو من خارج التخصص.
d1- Able to function within a team of research scholars and argue how research, scholarly and creative projects are managed	d1 - يمارس العمل ضمن فريق ليتعلم كيفية العمل الجماعي وكيفية ادارة المشاريع.

محتوى المقرر Course Content				
خطة تنفيذ الموضوعات النظرية Theoretical Aspect				
الرقم Order	الوحدات (الموضوعات الرئيسية) Units	الموضوعات التفصيلية Sub Topics	الأسبوع Week Due	الساعات الفعلية Con. H
1	Project Meeting (1)	Introductory lecture that give appraisal about the importance of graduation project	W1	2
		syllabus discussion, steps taken from project registration up to submission	W2	2
2	Project Meeting (2)	Project writing: students learn the scientific structure of the project writing	W3	2
3	Project Registration	This is agreed between the student and supervisor	W1-W3	
4	Work Plan and Literature Review	The work plan can be written by a student assisted by his supervisor, this should be	W4-W9	12

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		approximately two pages long and include the (i) title of your project (ii) background information about the subject (iii) objective(s) of your research project (iv) methods used (v) and why this research is significant		
5	Field/ Laboratory work	▪ Student either synthesize the data or collect the data depending on the project objectives	W10-W12	6
6	Presentation	▪ Student should prepare a talk to illustrate his achievements	W13-W14	4
عدد الأسابيع والساعات الفعلية Number of Weeks /and Contact Hours Per Semester			14	28

خطة تنفيذ موضوعات الجانب العملي Practical / Training/ Tutorials/ Exercises Aspects			
الرقم Order	موضوعات العملي/ المهام / التمارين Practical/ Tutorials/ Exercises Aspects	الأسبوع Week Due	الساعات الفعلية Cont. H
1	▪		
2	▪		
اجمالي الأسابيع والساعات الفعلية Number of Weeks /and Contact Hours Per Semester		14	

استراتيجيات التعليم والتعلم Teaching Strategies	
-	

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

تقييم التعلم Learning Assessment					
الرقم No.	أنشطة التقييم Assessment Tasks	أسبوع التقييم Week due	الدرجة Mark	نسبة الدرجة إلى الدرجة النهائية Proportion of Final Assessment	مخرجات التعلم CILOs (symbols)
1	Observation	W1-W15	15	15%	a1, a2, b1, b2, c1, c2
2	Discussion	W6-W15	10	20%	a1, a2, b1, b2, c1, c2
3	Portfolios	W6-W15	15	25%	a1, a2, b1, b2, c1, c2
4	Presentation	W15	60	60%	a1, a2, b1, b2, c1, c2
Total الإجمالي				%100	

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Learning Resources مصادر التعلم

توثيق المراجع حسب نظام APA (اسم المؤلف، سنة النشر، اسم الكتاب، دار النشر، بلد النشر).

Required Textbook(s) المراجع الرئيسية (لا تزيد عن مرجعين)

Naoum, S.G. (2007) Dissertation Research and Writing for Construction Students. 2nd ed. Oxford: Butterworth-Heinemann.

Essential References المراجع المساندة

Jones, A. (1996) Guidelines for writing. Unpublished report. Liverpool, Smith Institute.

Anon. (1996) Guidelines for writing. Unpublished report. Liverpool, Smith Institute.

Electronic Materials and Web Sites etc. المصادر الإلكترونية ومواقع الإنترنت

http://www.nwrc.gov/lib/lib_sta.htm: An excellent extensive guide to writing geological articles. Originally designed for USGS type reports, but is quite applicable to other types of papers and manuscripts. Excellent guide for the proper use of stratigraphic, paleontological, mineralogical, petrological, ... etc. terms.

<http://filebox.vt.edu/eng/mech/writing/>: An excellent site with some tips, exercises (in grammar, spelling, vocabulary, punctuation, ... etc.) as well as sample papers.

<http://users.von.uc.edu/brackerw/ScientificWriting.htm>: Contains an excellent power point presentation on scientific writing. Has several other resources as well.

<http://www.earthresearch.com/>: Useful website with several tips on writing, and many other useful resources.

الضوابط والسياسات المتبعة في المقرر Course Policies

Presentation

- Students should present their achievements at the end of the first semester.
- Student should consult with his advisor about scheduling a time and date for the Presentation, at least 7 days from submittal of the report.
- Presentations should be 25-to 30-minutes in length.
- Evaluation of the presentation will include the student ability to competently respond to questions from the audience.

Grading

- The grade for the project (1) is 100 mark and it will be based on input from the student's supervisor (40%), and subsequent oral presentation (60%) given equally by the committee members.

الضوابط والسياسات المتبعة في المقرر Course Policies



- The graduation project should be taken in the fourth year in the field of the specialization.
- Registration for the project should be performed according to the provided form (annex1).
- The examination committees consists of three professors, the supervisor and two members, their specialization related to the subject.
- The committee is headed by senior professor that has the highest academic degree.
- The maximum projects that professor can be supervised at the same time are 4 projects.
- The report must be structured according to the standard format for the scientific report. It must contain in addition to the text tables, figures, references, etc., and should include rigorous presentation, analysis, and interpretation of data.
- Evaluation of presentations will be based primarily on the quality of their technical content, but the following considerations also will be factored into the grade:
 - organization;
 - persuasiveness;
 - quality of slides/visual aids;
 - effective use of time;
 - competent response to questions.

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