







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

## مواصفات مقرر: جيولوجيا عامة (2)

**Course Specification of: General Geology (2)** 

| G   | المعلومات العامة عن المقرر General information about the course                |  |                           |                                  |                   |                   |
|-----|--|--|---------------------------|----------------------------------|-------------------|-------------------|
| 1   | اسم المقرر   |  | G                         | eneral Geology                   | y (2)             |                   |
| .1  | Course Title   | جيولوجيا عامة (2)                            |                           |                                  |                   |                   |
| .2  | رمز المقرر ورقمه   | PNR 112                                      |                           |                                  |                   |                   |
|     | Course Code and Number   |  | Cradit Hou                | الساعات المعتمدة Irs             |                   |                   |
| .3  | الساعات المعتمدة للمقرر<br>Credit Hours  | محاضرات<br>Lecture                           | عملي<br>عملي<br>Practical | سمنار/تمارین<br>Seminar/Tutorial | تدریب<br>Training | الإجمالي<br>Total |
|     |  | 2  | 1                         | -                                | -                 | 3                 |
| .4  | المستوى والفصل الدراسي<br>Study Level and Semester                             | 1st Year / 2nd Semester                      |                           |                                  |                   |                   |
| .5  | المتطلبات السابقة المقرر (إن وجدت)<br>Pre-requisites (if any)                  | PNR111                                       |                           |                                  |                   |                   |
| .6  | المتطلبات المصاحبة (إن وجدت)<br>Co-requisites (if any)                         | -  |                           |                                  |                   |                   |
| .7  | البرُنَّامج الذي يدرسُ له المقرر<br>Program (s) in which the course is offered | BSc in Petroleum and Natural Gas Engineering |                           |                                  |                   |                   |
| .8  | لغة تدريس المقرر<br>Language of teaching the course                            | Arabic/E                                     | English                   |                                  |                   |                   |
| .9  | نظام الدراسة<br>Study System   | Academic year of two semesters               |                           |                                  |                   |                   |
| .10 | مكان تدريس المقرر<br>Location of teaching the course                           | Faculty of Petroleum and Natural Resources   |                           |                                  |                   |                   |
| .11 | اسم معد(و) مواصفات المقرر<br>Prepared by                                       | Assoc.Prof. Adel M. Al-Matary                |                           |                                  |                   |                   |
| .12 | تاریخ اعتماد مجلس الجامعة<br>Date of Approval                                  | 2020   |                           |                                  |                   |                   |

| وصف المقرر Course Description   |                       |
|---|-----------------------|
| وصف المقرر ر بالإنجليزية  | وصف المقرر ر بالعربية |
| The aim of this course introduces the basic concepts of sedimentary environments; principle of stratigraphy and historical geology; geologic time, stratigraphic units and correlations, Geology of Yemen and sedimentary basins. |                       |

## مخرجات تعلم المقرر (Course Intended Learning Outcomes (CILOs) مخرجات تعلم المقرر (After completing the course, the student will be able to:

Prepared by Assoc.Prof. Adel Al-Matary Quality Assurance Unit Assoc.Prof. Adel Al-Matary Dean of the Faculty Assoc.Prof. Bassim AlKhirbash









| a1.        | Define the concepts sedimentary environments and stratigraphy.         | - a1 |
|------------|--|------|
| a2.        | Describe the different types of deposits sedimentary environments.     | – a2 |
| b1.        | Analyze the geological fieldwork data related with laboratory results. | -b1  |
| b2.        | Design the stratigraphic chart-column and maps.                        | - b2 |
| <b>c1.</b> | Use the geological maps to recognize the certain rocks local site.     | - c1 |
| c2.        | Employ the Yemen's Basins Stratigraphic unit.                          | - c2 |
| d1.        | Use computer and internet to writing scientific research.              | - d1 |
| <b>d2.</b> | write a brief geological repot individual and group.                   | - d2 |

|           | مواءمة مخرجات تعلم المقرر مع مخرجات التعلم للبرنامج:   |                                    |   |  |  |
|-----------|--|------------------------------------|---|--|--|
| Alignn    | Alignment of CILOs (Course Intended Learning Outcomes) to PILOs (Program Intended Learning Outcomes) |                                    |   |  |  |
|           | مخرجات التعلم المقصودة من المقرر   | مخرجات التعلم المقصودة من البرنامج |   |  |  |
|           | (Course Intended Learning Outcomes)  | (Progr                             | ram Intended Learning Outcomes)             |  |  |
|           |  | (1                                 | (تكتب جميع مخرجات البرنامج كما هي رمزا ونصر |  |  |
| a1        | Define the concepts sedimentary environments and stratigraphy.                                       | <b>A1</b>                          |   |  |  |
| a2        | Describe the different types of deposits sedimentary environments.                                   | А3                                 |   |  |  |
| b1        | Analyze the geological fieldwork data related with laboratory results.                               | B1                                 |   |  |  |
| <b>b2</b> | Design the stratigraphic chart-column and maps.  | B2                                 |   |  |  |
| c1        | Use the geological maps to recognize the certain rocks local site.                                   | C1                                 |   |  |  |
| c2        | Employ the Yemen's Basins Stratigraphic unit.  | C2                                 |   |  |  |
| d1        | Use computer and internet to writing scientific research.  | D2                                 |   |  |  |
| d2        | write a brief geological repot individual and group.   | D3                                 |   |  |  |

| مواعمة مخرجات التعلم باستراتيجيات التعليم والتعلم والتقويم<br>Alignment of CILOs to Teaching and Assessment Strategies                          |
|---|
| أولا: مواءمة مخرجات تعلم المقرر (المعارف والفهم) باستراتيجية التعليم والتعلم والتقويم:<br>First: Alignment of Knowledge and Understanding CILOs |

Prepared by Assoc.Prof. Adel Al-Matary Quality Assurance Unit Assoc.Prof. Adel Al-Matary

Dean of the Faculty Assoc.Prof. Bassim AlKhirbash









|  | مخرجات المقرر/ المعرفة والفهم   | استراتيجية التعليم والتعلم     | استراتيجية التقويم          |  |  |
|--|---|--------------------------------|-----------------------------|--|--|
|  | Knowledge and Understanding CILOs   | Teaching Strategies            | Assessment Strategies       |  |  |
| a1 -   | Define the concepts sedimentary   | Lectures                       | Theoretical Exam.           |  |  |
|  | environments and stratigraphy.  | <b>Discussion</b>              | Homework                    |  |  |
| a2 -   | Describe the different types of deposi  | ts Using of illustration       |                             |  |  |
|  | sedimentary environments.   | tools and computer.            | assignments,                |  |  |
|  | -   | -                              |                             |  |  |
|  | ستراتيجية التدريس والتقويم:   | المقرر (المهارات الذهنية) با   | ا ثانيا: مواءمة مخرجات تعلم |  |  |
| Secon  | d: Alignment of Intellectual Skills CILOs   |                                |                             |  |  |
|  | مخرجات المقرر/ المهارات الذهنية   | استراتيجية التعليم والتعلم     | استراتيجية التقويم          |  |  |
|  | Intellectual Skills CILOs   | <b>Teaching Strategies</b>     | Assessment Strategies       |  |  |
| b1 -   | Analyze the geological fieldwork data   | Discussion                     | Quizzes,                    |  |  |
|  | related with laboratory results.  | Self-study,                    | Homework                    |  |  |
| <b>b2</b> -  | Design the stratigraphic chart-column and   | Lectures                       | assignments,                |  |  |
|  | maps.   |                                | ,                           |  |  |
|  | I   | l                              |                             |  |  |
|  | عملية) باستراتيجية التدريس والتقويم:  | م المقدر المعادات المعندة عا   | ثالثا مماممة مخرجات تط      |  |  |
| 753 · 3  |   | ,                              | الله الراجمة المعربات مع    |  |  |
| Third  | : Alignment of Professional and Pract   |                                |                             |  |  |
|  | مخرجات المقرر/ المهارات المهنية والعملية  | استراتيجية التعليم والتعلم     | استراتيجية التقويم          |  |  |
| P  | Professional and Practical Skills CILOs   | Teaching Strategies            | Assessment Strategies       |  |  |
| c1-  | Use the geological maps to recognize the  | Laboratory sessions.           | Quizzes,                    |  |  |
|  | certain rocks local site.   | Self-study,                    | Reports,                    |  |  |
| <b>c2</b> -  | Employ the Yemen's Basins Stratigraphic   | 5011 5011 11,                  | Practical exam.             |  |  |
|  | unit.   |                                |                             |  |  |
|  | et make a make a transition of the same and | 1 2 <sup>4</sup> 1 64 1 612 10 |                             |  |  |
|  | ستراتيجيه التدريس والتفويم:   | لم المقرر (المهارات العامة) با | رابعا: مواءمه مخرجات تع     |  |  |
| Fourth: Alignment of Transferable (General) Skills CILOs |   |                                |                             |  |  |
|  | مخرجات المقرر   | استراتيجية التعليم والتعلم     | استراتيجية التقويم          |  |  |
|  | Transferable (General) Skills CILOs   | <b>Teaching Strategies</b>     | Assessment Strategies       |  |  |
| d1-  | F 8   | Self-study,                    | Reports,                    |  |  |
|  | scientific research.  | laboratory sessions,           | Homework assignments,       |  |  |
| d2-  | write a brief geological repot  | •                              |                             |  |  |
|  | individual and group.   |                                |                             |  |  |
|  |   |                                |                             |  |  |

| C              | محتوى المقرر Course Content                         |                                      |                                    |  |   |  |
|----------------|---|--------------------------------------|------------------------------------|--|---|--|
| Theor          | retical Aspect نظري                                 | موضوعات الجانب ال                    |                                    |  |   |  |
| الرقم<br>Order | الموضوعات الرئيسة/<br>الوحدات<br>Topic List / Units | الموضوعات الفرعية<br>Sub Topics List | عدد الأسابيع<br>Number of<br>Weeks | الساعات<br>الفعلية<br>Contact<br>Hours | رموز مخرجات التعلم<br>للمقرر<br>(CILOs) |  |

Prepared by Assoc.Prof. Adel Al-Matary Quality Assurance Unit Assoc.Prof. Adel Al-Matary

Dean of the Faculty Assoc.Prof. Bassim AlKhirbash









| 1 | Introduction   | Review of general geological course   | 1 | 2  | a1,a2                          |
|---|--|---|---|----|--------------------------------|
| 2 | Sedimentary<br>environments  | 1. Continental deposits. 2. Transitional deposits. A-Lagoons. B-Deltas 3. Marine deposits   | 3 | 6  | a1,a2,<br>b1,b2                |
| 3 | principle of<br>stratigraphy   | <ol> <li>Concepts and</li> <li>Lithostratigraphy.</li> <li>Stratigraphic charts</li> </ol>  | 1 | 2  | a1,a2, b1,b2                   |
| 4 | historical geology   | - The geologic Column<br>-Ancient Animal Life   | 2 | 4  | a1, a2, b1,b2,<br>c1,c2        |
| 5 | Stratigraphic units and correlations   | <ul><li>Lithostratigraphic units.</li><li>Biostratigraphic unit.</li><li>Stratigraphic relationships</li></ul>                              | 1 | 2  | a1, a2, b1,b2,<br>c1,c2        |
| 6 | geology of Yemen   | <ul><li>1-The basement</li><li>2- The sedimentary cover:</li><li>3- Cenozoic Volcanic Rocks.</li><li>4- Cenozoic Intrusive Rocks.</li></ul> | 4 | 8  | a1, a2, a3,<br>b1,b2,<br>c1,c2 |
| 7 | Sedimentary<br>basins  | Yemen sedimentary basins  | 2 | 4  | a1, a2, a3,<br>b1,b2,c1,c2,d2  |
|   | عدد الأسابيع والساعات الفعلية<br>Number of Weeks /and Contact Hours Per Semester |   |   | 28 |                                |

| Prac           | Practical Aspect (if any) (إن وجدت العملية (إن وجدت)   |                                    |  |                                   |  |
|----------------|--|------------------------------------|--|-----------------------------------|--|
| الرقم<br>Order | التجارب العملية/ التمارين / تدريبات<br>Practical / Exercises/ Tutorials topics                     | عدد الأسابيع<br>Number of<br>Weeks | الساعات<br>الفعلية<br>Contact<br>Hours | رموز مخرجات التعلم<br>Course ILOs |  |
| 1              | Introductory lecture to laboratory   | 1                                  | 2                                      | a1, a2                            |  |
| 2              | Classification of Sedimentary Rocks Clastic: A-Sandstones, B-Conglomerates, C-Breccia, D-Mud Rocks | 2                                  | 4                                      | a1,a2,                            |  |
| 3              | Chemical: Limestone, Chert, Gypsum, Rock salt;   | 1                                  | 2                                      | a1,a2, b1,b2,c1,c2,               |  |
| 4              | clastic based on Size  | 2                                  | 4                                      | a1,a2,b1,b2,c1,c2,d2,             |  |
| 5              | Fossils  | 1                                  | 2                                      | a1, a2, b1, b2                    |  |
| 6              | Stratigraphic Units (Case study)   | 1                                  | 2                                      | a1,a2, b1,b2,c1,c2                |  |
| 7              | Yemen Geology  | 2                                  | 4                                      | a1, a2,b1,b2,c1,c2,d2             |  |
| 8              | Geological map   | 1                                  | 2                                      | b1, b2, c1,c2,d2                  |  |
| 9              | Sedimentary Basin map  | 1                                  | 2                                      | b1 ,b2,c1,c2,d2                   |  |
|                | اجمالي الأسابيع والساعات الفعلية   | 12                                 | 24                                     |                                   |  |

Prepared by Assoc.Prof. Adel Al-Matary Quality Assurance Unit Assoc.Prof. Adel Al-Matary Dean of the Faculty Assoc.Prof. Bassim AlKhirbash









الجمهوريـة اليمنــية وزارة التعليم العالـي والبحث العلمي جـــــامعة صـــــنعاء كلية البترول والموارد الطبيعية

| Number of Weeks /and Contact Hours Per Semester |  |  |
|---|--|--|

### استراتيجيات التعليم والتعلم وTeaching Strategies

- Lectures
- Self-study,
- Laboratory (practical classes) sessions.
- Field Trip.

| 7       | Tasks and Assignments الأنشطة والتكليفات |                               |                            |                              |                                    |  |
|---------|--|-------------------------------|----------------------------|------------------------------|------------------------------------|--|
| م<br>No | التكليف/ الواجب<br>Assignments/ Tasks    | نوع التكليف<br>(فردي/ تعاوني) | الدرجة<br>المستحقة<br>Mark | أسبوع<br>التنفيذ<br>Week Due | خرجات التعلم<br>CILOs<br>(symbols) |  |
| 1       | n/a                                      |                               |                            |                              |                                    |  |
|         | إجمالي الدرجة Total Score                |                               |                            |                              |                                    |  |

|              | Learning Assessment تقييم التعلم  |                          |                |   |                                  |  |  |  |  |
|--------------|-----------------------------------|--------------------------|----------------|---|----------------------------------|--|--|--|--|
| الرقم<br>No. | أنشطة التقييم<br>Assessment Tasks | أسوع التقييم<br>Week due | الدرجة<br>Mark | نسبة الدرجة إلى<br>الدرجة النهائية<br>Proportion of<br>Final Assessment | مخرجات التعلم<br>CILOs (symbols) |  |  |  |  |
| 1            | Tasks and Assignments             | Weekly                   | 10             | 6.7%  | a1,a2,a3,b1,b2,c1,c2,d1,d2       |  |  |  |  |
| 2            | Quiz                              | End of a                 | 10             | 6.7 %   | a1,a2,a3,b1,b2,c2,d1,d2          |  |  |  |  |
| 3            | Written test                      | Week 8                   | 25             | 16.7%   | a1,a2,a3,b1,b2,c2,d1,d2          |  |  |  |  |
| 4            | Practical test                    | Week 7                   | 15             | 10%   | a1,a2,b1,b2,c2,d1,d2             |  |  |  |  |
| 5            | Final exam practical              | Week 14                  | 20             | 13.3%   | All CILO                         |  |  |  |  |
| 6            | Final exam theory                 | Week 16                  | 70             | 46.6%   | All CILO                         |  |  |  |  |
|              | 'جمالي Total                      | الإ                      | 150            | %100  |                                  |  |  |  |  |

## مصادر التعلم Learning Resources

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

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

- Lecture Notes (No text book)

### المراجع المساندة Essential References

- 1- Gary Nichols, 2009, Sedimentology and Stratigraphy, Second Edition.
- 2- Ziad R. Beydoun, et al.., 1998, International Lexicon of Stratigraphy, Vol.III, Republic of Yemen, second ed.

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

Prepared by Assoc.Prof. Adel Al-Matary Quality Assurance Unit Assoc.Prof. Adel Al-Matary Dean of the Faculty Assoc.Prof. Bassim AlKhirbash









الجمهورية اليمنية وزارة التعليم العالي والبحث العلمي جــــامعة صــــنعاء كلية البترول والموارد الطبيعية

www.onegeology.org www.freebookcentre.net

|   | Course Policies:  |
|---|---|
|   |   |
| 1 | <ul> <li>Class Attendance:</li> <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> |
| 2 | Tardy: - Attendance and arriving on time for the class are necessary. If the student is late, he will be prevented from class.  |
| 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 | <ul><li>Cheating:</li><li>- 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.</li></ul>  |
| 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.   |









الجمهوريــة اليمنــية وزارة التعليم العالـي والبحث العلمي جـــــامعة صـــــنعاء كلية البترول والموارد الطبيعية

متطلب كلية

قسم/ برنامج Department:

العام الجامعي: 2019- 2020م

## خطة مقرر: جيولوجيا عامة (2)

Course Plan (Syllabus): General Geology (2)

| Information about Faculty Member Responsible for the Course معلومات عن أستاذ المقرر |                                   |  |              |                |                 |                 |               |  |
|---|-----------------------------------|--|--------------|----------------|-----------------|-----------------|---------------|--|
| الاسم<br>Name   | Assoc.Prof. Adel M. Al-<br>Matary | الساعات المكتبية (أسبوعيا)<br>Office Hours |              |                |                 |                 |               |  |
| المكان ورقم الهاتف<br>Location &Telephone No.                                       | 770770769                         | السبت<br>SAT                               | الأحد<br>SUN | الاثنين<br>MON | الثلاثاء<br>TUE | الأربعاء<br>WED | الخميس<br>THU |  |
| البريد الإلكتروني<br>E-mail   | a.almatary@su.edu.ye              |  |              |                |                 |                 |               |  |

| (  | معلومات عامة عن المقرر General information about the course                |  |                           |                                  |                   |                    |  |  |
|----|--|--|---------------------------|----------------------------------|-------------------|--------------------|--|--|
| .1 | اسم المقرر<br>Course Title   | General Geology (2)<br>جيولوجيا عامة (2)     |                           |                                  |                   |                    |  |  |
| .2 | رمز المقرر ورقمه<br>Course Code and Number                                 |  | PNR 112                   |                                  |                   |                    |  |  |
|    |  |  | C <mark>redit Ho</mark> u | لساعات المعتمدة Irs              | ١                 | الإجمالي           |  |  |
| .3 | الساعات المعتمدة للمقرر<br>Credit Hours                                    | محاضرات<br>Lecture                           | عملي<br>Practical         | سمنار/تمارین<br>Seminar/Tutorial | تدریب<br>Training | ادٍ جندني<br>Total |  |  |
|    |  | 2  | 1                         | -                                | -                 | 3                  |  |  |
| .4 | المستوى والفصل الدراسي<br>Study Level and Semester                         | 1st Year / 2nd Semester                      |                           |                                  |                   |                    |  |  |
| .5 | المتطلبات السابقة للمقرر Pre-requisites                                    | PNR111                                       |                           |                                  |                   |                    |  |  |
| .6 | المتطلبات المصاحبة (إن وجدت)Co –requisite                                  | -  |                           |                                  |                   |                    |  |  |
| .7 | البرنامج الذي يدرس له المقرر<br>Program (s) in which the course is offered | BSc in Petroleum and Natural Gas Engineering |                           |                                  |                   |                    |  |  |
| .8 | لغة تدريس المقرر<br>Language of teaching the course                        | Arabic/E                                     | English                   |                                  |                   |                    |  |  |
| .9 | مكان تدريس المقرر<br>Location of teaching the course                       | Faculty of                                   | of Petrole                | ım and Natural                   | Resource          | es                 |  |  |

## وصف المقرر Course Description

The aim of this course introduces the basic concepts of sedimentary environments; principle of stratigraphy and historical geology; geologic time, stratigraphic units and correlations, Geology of Yemen and sedimentary basins.

Prepared by Assoc.Prof. Adel Al-Matary Quality Assurance Unit Assoc.Prof. Adel Al-Matary Dean of the Faculty Assoc.Prof. Bassim AlKhirbash









| Co      | مخرجات تعلم المقرر (Course Intended Learning Outcomes (CILOs)          |  |  |  |  |  |  |  |
|---------|--|--|--|--|--|--|--|--|
|         | بعد الانتهاء من دراسة المقرر سوف يكون الطالب قادرا على أن:             |  |  |  |  |  |  |  |
| After o | After completing the course, the student will be able to:              |  |  |  |  |  |  |  |
| a1.     | Define the concepts sedimentary environments and stratigraphy.         |  |  |  |  |  |  |  |
| a2.     | Describe the different types of deposits sedimentary environments.     |  |  |  |  |  |  |  |
| b1.     | Analyze the geological fieldwork data related with laboratory results. |  |  |  |  |  |  |  |
| b2.     | Design the stratigraphic chart-column and maps.                        |  |  |  |  |  |  |  |
| c1.     | Use the geological maps to recognize the certain rocks local site.     |  |  |  |  |  |  |  |
| c2.     | Employ the Yemen's Basins Stratigraphic unit.                          |  |  |  |  |  |  |  |
| d1.     | Use computer and internet to writing scientific research.              |  |  |  |  |  |  |  |
| d2.     | write a brief geological repot individual and group.                   |  |  |  |  |  |  |  |

#### محتوى المقرر Course Content خطة تنفيذ الموضوعات النظرية Theoretical Aspect الوحدات الموضوعات التفصيلية الساعات الفعلبة ا**لرقم** Order الأسبوع (الموضوعات الرئيسة) Week Due Con. H **Sub Topics** Units 1 Introduction Review of general geological course 2 Week 1 1. Continental deposits. **Sedimentary** 2 2. Transitional deposits. Week 2-4 6 environments 3. Marine deposits 1. Concepts and principle of 3 Lithostratigraphy. Week 5 2 stratigraphy 2.. Stratigraphic charts 1-the Age of the earth 2- The geologic Column 4 historical geology 3-Geological time units and Measuring. Week 6-7 4 4-Plants of the past **5-Ancient Animal Life** 5 2 Midterm exam Week 8 - Lithostratigraphic units. Stratigraphic units and 6 - Biostratigraphic unit. 2 Week 9 correlations

- Stratigraphic relationships

Prepared by Assoc.Prof. Adel Al-Matary Quality Assurance Unit Assoc.Prof. Adel Al-Matary

Dean of the Faculty Assoc.Prof. Bassim AlKhirbash









| 7 | geology of Yemen           | 1-The basement 2- The cover: -Paleozoic Sedimentary rocks Mesozoic Sedimentary Rocks Cenozoic Sedimentary Rocks. 3- Cenozoic Volcanic Rocks. 4- Cenozoic Intrusive Rocks. | Week 10-13 | 8 |
|---|----------------------------|---|------------|---|
| 8 | sedimentary basins         | Yemen sedimentary basins  | Week 14-15 | 4 |
| 9 | Final exam                 |   | Week 16    | 2 |
|   | الفعلية<br>Number of Weeks | 16  | 32         |   |

| Prac                   | خطة تنفيذ موضوعات الجانب العملي Practical / Training/ Tutorials/ Exercises Aspects                 |                     |                            |  |  |  |  |
|------------------------|--|---------------------|----------------------------|--|--|--|--|
| ا <b>لرقم</b><br>Order | موضو عات العملي/ المهام / التمارين<br>Practical/ Tutorials/ Exercises Aspects                      | الأسبوع<br>Week Due | الساعات الفعلية<br>Cont. H |  |  |  |  |
| 1                      | Introductory lecture to laboratory   | Week 1              | 2                          |  |  |  |  |
| 2                      | Classification of Sedimentary Rocks Clastic: A-Sandstones, B-Conglomerates, C-Breccia, D-Mud Rocks | Week 2-3            | 4                          |  |  |  |  |
| 3                      | Chemical: Limestone, Chert, Gypsum, Rock salt;   | Week 4              | 2                          |  |  |  |  |
| 4                      | clastic based on Size  | Week <b>5-6</b>     | 4                          |  |  |  |  |
| 5                      | Fossils  | Week 7              | 2                          |  |  |  |  |
| 6                      | Midterm exam   | Week 8              | 2                          |  |  |  |  |
| 7                      | Stratigraphic units (Case study)   | Week 9              | 2                          |  |  |  |  |
| 8                      | Yemen Geology  | Week 10-11          | 4                          |  |  |  |  |
| 9                      | Geological map   | Week 12             | 2                          |  |  |  |  |
| 10                     | Sedimentary Basin map  | Week 13             | 2                          |  |  |  |  |
| 11                     | Final exam   | Week 14             | 2                          |  |  |  |  |
|                        | اجمالي الأسابيع والساعات الفعلية<br>Number of Weeks /and Contact Hours Per Semester                | 14                  | 28                         |  |  |  |  |

## استراتيجيات التعليم والتعلم Teaching Strategies

- Lectures
- Self-study,
- Laboratory (practical classes) sessions.
- Field Trip.

## تقويم التعلم Learning Assessment

Prepared by Assoc.Prof. Adel Al-Matary Quality Assurance Unit Assoc.Prof. Adel Al-Matary Dean of the Faculty Assoc.Prof. Bassim AlKhirbash









| ۶<br>No | أساليب التقويم<br>Assessment Method | مو عد (أسبوع) التقويم<br>Week Due | الدرجة<br>Mark | الوزن النسبي%<br>Proportion of Final<br>Assessment |
|---------|-------------------------------------|-----------------------------------|----------------|--|
| 1       | Tasks and Assignments               | Weekly                            | 10             | 6.7%   |
| 2       | Quiz                                | End of a topic                    | 10             | 6.7 %  |
| 3       | Written test                        | Week 8                            | 25             | 16.7%  |
| 4       | Practical test                      | Week 7                            | 15             | 10%  |
| 5       | Final exam practical                | Week 14                           | 20             | 13.3%  |
| 6       | Final exam theory                   | Week 16                           | 70             | 46.6%  |
|         | المجموع Total                       | 150                               | 100 %          |  |

### مصادر التعلم Learning Resources

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

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

Lecture Notes (No text book)

### المراجع المساندة Essential References

- 1- Gary Nichols, 2009, Sedimentology and Stratigraphy, Second Edition.
- 2- Ziad R. Beydoun, et al.., 1998, International Lexicon of Stratigraphy, Vol.III, Republic of Yemen, second ed.

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

www.onegeology.org www.freebookcentre.net

| - | $\sim$ | ш | re | e | D | $\sim$ l | H | ci | Δ | 6 |   |
|---|--------|---|----|---|---|----------|---|----|---|---|---|
|   | O)     | u | 5  | е | М | Ю        | П |    | e | 5 | 8 |

### 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 Tardy:

- Attendance and arriving on time for the class are necessary. If the student is late, he will be prevented from class.

### 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.

Prepared by Assoc.Prof. Adel Al-Matary Quality Assurance Unit Assoc.Prof. Adel Al-Matary Dean of the Faculty Assoc.Prof. Bassim AlKhirbash









الجمهوريـة اليمنــية وزارة التعليم العالـي والبحث العلمي جـــــامعة صـــــنعاء كلية البترول والموارد الطبيعية

| 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.                                     |