MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

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| **Module Information****معلومات المادة الدراسية** |
| **Module Title** | Geology of Iraq | **Module Delivery** |
| **Module Type** | Core | * **☒ Theory**
* **☒ Lecture**
* **☒ Lab**
* **☐ Tutorial**
* **☐ Practical**
* **☐ Seminar**
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| **Module Code** | RGC31116 |
| **ECTS Credits**  | 5 |
| **SWL (hr/sem)** | 125 |
| **Module Level** | III | **Semester of Delivery** | FIVE |
| **Administering Department** | Geophysics |  **College** | College of Geophysics and Remote Sensing |
| **Module Leader** | Dr. Mohammed Sattam |  **e-mail** | moh.sattam@kus.edu.iq  |
| **Module Leader’s Acad. Title** | Assistant Professor  | **Module Leader’s Qualification** | Stratigraphy& Paleontology  |
| **Module Tutor** | Nul |  **e-mail** |  |
| **Peer Reviewer Name** | Null |  **e-mail** |  |
| **Scientific Committee Approval Date** | 16 / 6 / 2023 | **Version Number** | 2 |

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| **Relation with other Modules****العلاقة مع المواد الدراسية الأخرى** |
| **Prerequisite module** | Structural Geology | **Semester** | Four |
| **Co-requisites module** | Stratigraphy  | **Semester** | Three |

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| **Module Aims, Learning Outcomes and Indicative Contents****أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية** |
|  **Module Aims****أهداف المادة الدراسية** | The aims of the Geology of Iraq module are to provide students with an in-depth understanding of the geological history and framework of Iraq. The module aims to explore the tectonic evolution, stratigraphy, and structural geology of the region. It also aims to study the distribution and potential of natural resources, including oil, gas, and minerals, within the Iraqi geologic context. |
| **Module Learning Outcomes****مخرجات التعلم للمادة الدراسية** | The Geology of Iraq module has several learning outcomes. Students will gain a comprehensive understanding of the geological history and evolution of Iraq, including tectonic processes and sedimentary environments. They will develop skills in interpreting regional geologic maps, stratigraphic columns, and structural features. Students will also analyze the distribution and exploration potential of Iraq's natural resources, such as hydrocarbons and minerals, within a geologic framework. |
| **Indicative Contents****المحتويات الإرشادية** | Through explanations and applications, using display screens, and presenting scientific films that explain the reality of what happens in nature.  |

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| **Learning and Teaching Strategies****استراتيجيات التعلم والتعليم** |
| **Strategies** | Class Lecture Practical TrainingTutorial Seminar  |

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| **Student Workload (SWL)****الحمل الدراسي للطالب** |
| **Structured SWL (h/sem)****الحمل الدراسي المنتظم للطالب خلال الفصل** | 100 |  |  |
| **Unstructured SWL (h/sem)****الحمل الدراسي غير المنتظم للطالب خلال الفصل** | 25 |  |  |
| **Total SWL (h/sem)****الحمل الدراسي الكلي للطالب خلال الفصل** | 125 |

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| **Module Evaluation****تقييم المادة الدراسية** |
| **As** | **Time/Number** | **Weight (Marks)** | **Week Due** | **Relevant Learning Outcome** |
| **Formative assessment** | **Quizzes** | 2 | 10% (10) |  |  |
| **Assignments** | 2 | 10% (10) |  |  |
| **Projects / Lab.** | 1 | 10% (10) |  |  |
| **Report** | 1 | 10% (10) |  |  |
| **Summative assessment** | **Midterm Exam** | 2 hr | 10% (10) |  |  |
| **Final Exam** | 2hr | 50% (50) |  |  |
| **Total assessment** | 100% (100 Marks) |  |  |

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| **Delivery Plan (Weekly Syllabus)****المنهاج الاسبوعي النظري**

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| **Week**  | **Description depends on the Timing table(Theoretical & Practical)** |
|  | Introduction  |
|  | Tectonics and tectonic maps of Iraq |
|  | Tectonic analysis of Iraqi framework |
|  | Categories of Tectonic Zones of Iraq |
|  | Paleozoic Sequence in Iraq |
|  | First exam  |
|  | Mesozoic (Triassic) Sequence |
|  | Mesozoic (Jurassic) Sequence |
|  | Mesozoic (Jurassic) Sequence  |
|  | Mesozoic (Lower Cretaceous) Sequence  |
|  | Mesozoic (Lower Cretaceous)  |
|  | Sequence Mesozoic (Upper Cretaceous) Sequence  |
|  | Sequence Mesozoic (Upper Cretaceous) Sequence  |
|  | Cenozoic (Tertiary) Sequence |
|  | Cenozoic (Tertiary) Sequence  |
|  | **FINAL EXAM**  |

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| **Learning and Teaching Resources****مصادر التعلم والتدريس** |
|  | **Text** | **Available in the Library?** |
| **Required Texts** | 1-Bellen, R. C.; Dunnington, H. V.; Wetzel, R; and Mortan, D. M., 1959: Lexique stratigraphque international, V. III. Fasc. 10a, Asia, Iraq, 333p2-Jassim, S. Z. and Goff, J. C., 2006: Gology of Iraq. Published by Dolin, Brague Moravian Museum, Berno. 345p. | Y |
| **Recommended Texts** | 1-Buday, R. T., 1980: The regional geology of Iraq, V.I, stratigraphy and paleogeography,; Kassab, and Jassim, S. Z., (eds), state organization for minerals, Baghdad, 445p.2-Buday, R. T., 1987: The regional geology of Iraq, V.II, Tectonism, Magmatism and Metamorphism; Kassab I. I, Jassim, S. Z., and Abbas M., state organization for minerals, Baghdad, 350p. | y |
| **Websites** | <https://www.sciencedirect.com/topics/earth-and-planetary-sciences/well-logging>  |

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|  **Grading Scheme****مخطط الدرجات** |
| **Group** | **Grade** | التقدير | **Marks (%)** | **Definition** |
| **Success Group****(50 - 100)** | **A -** Excellent | **امتياز** | 90 - 100 | Outstanding Performance |
| **B -** Very Good | **جيد جدا**  | 80 - 89 | Above average with some errors |
| **C -** Good | **جيد** | 70 - 79 | Sound work with notable errors |
| **D -** Satisfactory | **متوسط**  | 60 - 69 | Fair but with major shortcomings |
| **E -** Sufficient | **مقبول**  | 50 - 59 | Work meets minimum criteria |
| **Fail Group****(0 – 49)** | **FX –** Fail | **راسب (قيد المعالجة)** | (45-49) | More work required but credit awarded |
| **F –** Fail | **راسب** | (0-44) | Considerable amount of work required |
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| **Note:** Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above. |