

جامعة الكوفة

KUFA UNIVERSITY



وصف البرنامج الأكاديمي

Academic Program Specification

Bachelor of Geology	Programme Title	١
	Programme Code	٢
Kufa University	Teaching Institution	٣
Faculty of Science	College	٤
Department of Geology	Department	٥.
١ st semester , ٣ rd Annualy	Attendance Type	٦
Autumn Session	Academic Session	٧
١ st semester (٣٦.٥ credits), ٣ rd Annualy (٣٦ credits)	Credits	٨
B.Sc. in Geology	Final Award	٩
Kufa University	ProgrammeAccrediate	١٠
Dr. Hussein M Hussein	ProgrammeCoordinator	١١.
Febr. ٢ , ٢٠١٥	Date of Programme	١٢
١. Provide the students with an extensive view of fundamental aspects of Geology. ٢. Furnish the students with the acquired skills that the students need to work with in their profession. ٣. Persistent understanding of Geology that accompanied with practical study enables students to become acquainted with a suitable	Programme Aims	١٣

<p>basis for a succeeded pathway of career application.</p> <ul style="list-style-type: none"> ξ. Supply the students with the new techniques of profession including computer and internet skills, besides the necessary programming for specialized subjects. ο. Preparing the suitable background for students to deal with seminars and discussion. ϒ. Enforcement of the self-characters of students in the field of best cooperation with each other and with their lecturers. ϛ. Creation of the confidence and real spirit to serve their department, faculty, university, and country through dispersing of goodness insurance requirements and applications. 	
<p>The program prepares the best curriculum for teaching, making ready developing, and taking care student skills and knowledge as follows:</p>	<p>Intended Learning Outcomes</p> <p style="text-align: right;">\ ξ</p>
<p>By bringing the program to the end, the student will be able to :</p> <ul style="list-style-type: none"> ϝ. Enhance the knowledge of the basic concepts of Geology. Ϟ. Realizing of the need to study the supported sciences including Physics, Chemistry, Biology, and Mathematics for the sake of enhancement of the knowledge of attached branches of Geology encompassing Geophysics, Geochemistry, Paleontology, and Structural Geology. ϟ. Manifestation of the augmented role of optics in the study of minerals and rocks, and demonstrate the required 	<p>Knowledge and \ ξ- ϝϞ Understanding</p>

<p>attributes that serve the economic importance.</p> <p>ξ. Consolidate the student characters in the seminar and research trends.</p>	
<p>The students must get advantage of available literature, tutorials, lectures, and IT and internet utilities. The practical classes enforce the empirical knowledge.</p>	<p>Learning and Teaching Methods</p>
<p>١. The extensive discussion and periodic tests.</p> <p>٢. The regular exams previously appointed.</p> <p>٣. Formal theoretical and practical exam.</p> <p>ξ. Seminars and research projects.</p>	<p>Assessment Methods</p>
<p>By achieving the outcome of the program, the student will be able to :</p> <p>١. Solve the required problems in the assessment of the economic value of rocks and minerals as building materials and the exploration and transforming industries.</p> <p>٢. Solve the morphometric parameters in the assessment of hydrologic and geomorphologic features.</p> <p>٣. Determine the percentages of mineral constituents by analyzing them in XRD and/or optical evaluation.</p> <p>ξ. Analysis and interpretation of data and graphs obtained from used devices.</p>	<p>Intellectual Skills</p>
<p>١. Supply students with the scientific books.</p> <p>٢. Preparation of the self-writing reports.</p> <p>٣. Emphasizing of the skills of recitation experience and dialogue.</p>	<p>Learning and Teaching Methods</p>
<p>١. Encourage the discussion spirit and debate in the knowledge aspects.</p> <p>٢. The need to furnish students with</p>	<p>Assessment Methods</p>

<p>the appropriate problems for the sake of trial of taking decision properly.</p>	
<p>By ending the program, students will be familiar with :</p> <ol style="list-style-type: none"> ١. Achievement of tests and experiments. ٢. Easy handling with apparatus and devices. ٣. The optimum benefit of practice is the preparation of sheets and reports acquiring the field and experimental work. ٤. Apply computer software to deal with images obtained from satellites, and processing the necessary scientific programs. 	<p>Practical Skills</p>
<ol style="list-style-type: none"> ١. Repetitive usefulness of video lectures and/or displayed lessons in different media. ٢. Preparation of reports and sheet necessary for assessment of the field and experimental study. ٣. Achievement of the necessary requirements that used computer programs. 	<p>Learning and Teaching Methods</p>
<p>The concentration on practical skills, and consolidate these skills in the insitu prospecting through field trips.</p>	<p>Assessment Methods</p>
<ol style="list-style-type: none"> ١. The ability of students to communicate the scientific ideas with others. ٢. The knowledge of better usage of bulletins and journals for the sake of research. ٣. Managing of the required projects that serve the academic study. ٤. Preparation of suitable lectures and seminars, and making easy the ٥. display and showings. 	<p>Transferable and Generic Skills</p>

<ul style="list-style-type: none"> 1. Encourage students to participate in debates, discussion. And transactions. 2. Facilitate the way that students can deal with fit togathering spirit. 	<p>Learning and Teaching Methods</p>
<ul style="list-style-type: none"> 1. Oral examination and presentation tests. 2. Participation of students in scientific sessions and postgraduate appreciation and discussions for error identification and processing. 	<p>Assessment Methods</p>

Kufa University
Department of Geology

First class;

عدد الوحدات	عدد الساعات الاسبوعية				الرمز	اسم المقرر الدراسي	ت
	عملي	نظري	فص ٢	فص ١			
٢.٥	٢	٢		√	SCG١٢١٠	Physical Geology	١
٢.٥	٢	٢		√	SCG ١٢١١	Crystallography Science	٢
٢.٥	٢	٢		√	SCG١١١٢	Physics (١)	٣
٢.٥	٢	٢		√	SCG١١١٣	Chemistry (١)	٤
٢		٢		√	SCG١١١٤	Mathematics (١)	٥
٢		٢		√	SCG ١١١٥	Computer Science	٦
٢		٢		√	SCG١٠١٦	Arabic Lang.	٧
٢		٢		√	SCG١٠١٧	Democracy	٨
٢.٥	٢	٢	√		SCG١٢٢٠	Historical Geology	٩
٢.٥		٢	√		SCG ١٢٢١	Mineralogy Science	١٠
٢.٥	٢	٢	√		SCG١١٢٢	Physics (٢)	١١
٢.٥	٢	٢	√		SCG١١٢٣	Chemistry (٢)	١٢
٢		٢	√		SCG١١٢٤	Mathematics (٢)	١٣
٢		٢	√		SCG ١١٢٥	Computer Science	١٤
٢.٥	٢	٢	√		SCG ١٠٢٦	English Lang. (٢)	١٥
٢		٢	√		SCG ١٠٢٧	Human Rights	١٦

Secouend Class;

عدد الوحدات	عدد الساعات الاسبوعية		نوع المقرر الدراسي		الرمز	اسم المقرر الدراسي	ت
	نظري	عملي	ف ٢	ف ١			
٢,٥	٢	٢		√	SCG٢٢١٠	Optical Mineralogy	١
٢,٥	٢	٢		√	SCG٢٢١١	Paleontology	٢
٢,٥	٢	٢		√	SCG٢٢١٢	Sedimentology	٣
٢,٥	٢	٢		√	SCG٢٢١٣	Geomorphology	٤
٢,٥	٢	٢		√	SCG٢٢١٤	Igneous Petrology	٥
٢,٥	٢			√	SCG٢٢١٥	Computer Application in Earth	٦
٢	٢			√	SCG٢٢١٦	Mathematics ٣	٧
٢,٥	٢	٢	√		SCG٢٢٢١	Petrology	٨
٢,٥	٢	٢	√		SCG٢٢٢٢	Micropaleontology	٩
٢,٥	٢	٢	√		SCG٢٢٢٣	Sedimentary Petrology	١٠
٢,٥	٢	٢	√		SCG٢٢٢٤	Computer Application in Earth	١١
٢,٥	٢	٢	√		SCG٢٢٢٥	Igneous Petrology	١٢
٢	٢		√		SCG٢٢٢٦	Mathematics	١٣
٢,٥	٢	٢	√		SCG٢٢٢٧	Desertification	١٤

Thired class;

عدد الوحدات	عدد الساعات الاسبوعية		نوع المقرر الدراسي		الرمز	عنوان المقرر الدراسي	ت
	عملي	نظري	فص ٢	فص ١			
٢,٥	٢	٢		√	SCG ٣٢١٠	Structural Geology ١	١
٢,٥	٢	٢		√	SCG ٣٢١١	Geotectonics	٢
٢,٥	٢	٢	√		SCG ٣٢٢٢	Field Geology	٣
٢,٥	٢	٢		√	SCG ٣٢٠٣	Geophysics : Gravity & Magnetic methods	٤
٢,٥	٢	٢	√		SCG ٣٢٠٣	Geophysics : Seismic & electrical methods	٥
٢,٥	٢	٢		√	SCG ٣٢١٥	Stratigraphy	٦
٢,٥	٢	٢	√		SCG ٣٢٢٦	Geology of Iraq	٧
٢,٥	٢	٢		√	SCG ٣٢١٧	Remote Sensing	٨
٢,٥	٢	٢	√	√	SCG ٣٢٢٨	Geographic Information System	٩
٢,٥	٢	٢	√		SCG ٣٢٠٠	Structural Geology ٢	١٠
٢,٥	٢	٢	√		SCG ٣٢١٢	Geochemistry ١	١١
٢,٥	٢	٢	√		SCG ٣٢١٣	Geochemistry ٢	١٢
٦	ينفذ خلال العطلة الصيفية				SCG ٣٢٠٩	Field Geological Survey Course	١٣

Fourth class;

ت	اسم المقرر الدراسي	الرمز	نوع المقرر الدراسي		عدد الساعات الاسبوعية		عدد الوحدات
			ف ١	ف ٢	عملي	نظري	
١	Engineering Geology	SCG٤٢١٠	√		٢	٢	٢,٥
٢	Mining geology and Engineering	SCG٤٢٢٠		√	٢	٢	٢,٥
٣	Hydrogeology ١	SCG٤٢٢١	√		٢	٢	٢,٥
٤	Hydrogeology ٢	SCG٤٢١١	√		٢	٢	٢,٥
٥	Petroleum Geology١	SCG٤٢٢٢	√		٢	٢	٢,٥
٦	Petroleum Geology ٢	SCG٤٢١٢	√		٢	٢	٢,٥
٧	Ore Geology	SCG٤٢٢٣	√		٢	٢	٢,٥
٨	Geology of Industrial Rocks	SCG٤٢١٣	√		٢	٢	٢,٥
٩	Environmental Geology	SCG٤٢٢٤	√		٢	٢	٢,٥
١٠	Environmental Pollution	SCG٤٢١٤	√		٢	٢	٢,٥
١١	Research Project	SCG٤٢٢٥	√	√	٢	٢	٤