



Attachment 2

COURSE REPORT

Igneous Petrology **(321 Geo)**

First semester 1431 - 1432

To be completed by course instructors at the end of each course and given to program coordinator.

If the course is taught in more than one location the course report should be prepared for each location by the course instructors responsible for the course in each location.

A combined report should be prepared by the course coordinator and the separate location reports attached.

Course Report

For guidance on the completion of this template, refer to Section 2.5 of Chapter 2 in Part 2 in this Handbook

Institution	King Saud University
College/ Department :	College of Science / Department of Geology & Geophysics

A. Course Identification and General Information

1. Course title and code. : <i>Igneous Petrology (321 Geo)</i>
2. If course is taught in more than one section indicate the section to which this report applies
3. Year and semester to which this report applies. <i>1st semester 1431-1432.</i>
4 Location (if not on main campus):

B. Course Delivery

1 Coverage of Planned Program			
Topics	Planned Contact Hours	Actual Contact Hours	Reason for Variations if there is a difference of more than 25% of the hours planned
<i>Introduction , Formation and occurrences of the igneous rocks and their structures.</i>	<i>2</i>	<i>2</i>	
<i>The magmas and their movements</i>	<i>2</i>	<i>2</i>	
<i>Principals of geochemistry for minerals and rocks. Field relations. Igneous textures and structures.</i>	<i>2</i>	<i>2</i>	
<i>Bowen's reaction series , methods of crystallizations, Rocks' derivatives. Geochemistry of the magmas</i>	<i>2</i>	<i>2</i>	
<i>Chemistry of crystallisation and Crystallisation of the magma. Group of minerals. Replacement and reactions with other rocks (igneous, metamorphic and sedimentary rocks). Hybridization. . Geochemical classifications and the distribution of the elements in the rocks.</i>	<i>2</i>	<i>2</i>	
<i>Relation between magma and the heat, viscosity and replacement.</i>	<i>2</i>	<i>2</i>	
<i>Early and post crystallisation of the magma and the relation of the</i>	<i>2</i>	<i>2</i>	

<i>geochemistry of the igneous rocks to the formation of the different minerals</i>			
<i>Petrological coherences, changing in the geochemistry of the rocks, magma's equilibrium. Type of magmas and their relations to pressure and temperature</i>	2	2	
<i>Phase rule, solid, dry and wet magmas, a magma of one, two, three and multi components and its applications on rocks.</i>	2	2	
<i>Origin and classification of the igneous rocks. The evolution according to the descriptions of appearance, field and microscopic studies</i>	2	2	
<i>Aqueous solutions at different temperatures. Change of equilibrium according to temperature. Water and gaseous and their effect on the rocks</i>	2	2	
<i>Rock families and their classifications</i>	2	2	
<i>Rock forming minerals, the usages of the rocks and minerals in military, structure industrial and construction sectors. Methods of collecting the samples.</i>	2	2	
<i>. The applications of the C.I.P.W. Norms and modal analyses.</i>	2	2	
<i>The Arabian Shield and the occurrence of the main igneous rocks</i>	2	2	
<i>Field trips for full three days at weekends</i>			

2. Consequences of Non Coverage of Topics

For any topics where significantly less time was spent than was intended in the course specification, or where the topic was not taught at all, comment on how significant you believe the lack of coverage is for the program objectives or for later courses in the program, and suggest possible compensating action if you believe it is needed.

<i>Topics (if any) not Fully Covered</i>	<i>Significance of Lack of Coverage</i>	<i>Possible Compensating Action Elsewhere in the Program</i>
<i>Basic of minerals optics, and mineral crystal system</i>	<i>Should be earned by student via the two courses of 224Geo (Optical Mineralogy), and 223Geo(Crystallography).</i>	<i>Compensated action has been carried out by edifying some topics of Prerequisite courses), and by giving them via internet Topics videos& via text books and articles to increase their knowledge in order to grab thethe</i>

		<i>immediate topics.</i>		
Domains	List Teaching Strategies set out in Course Specification	Were these Effective?		Difficulties Experienced (if any) in Using the Strategy and Suggested Action to Deal with Those Difficulties.
		No	Yes	
a. Knowledge	<p>1. Increase their knowledge by lecturing, and by carrying out dialogue session of 5 to 10 minutes within the lecture time.</p> <p>2. Encourage the Student to start their arguments and discussion.</p> <p>3. Run the practical exercises by identifying the minerals by its optics characteristics under the supervision of the Instructor.</p> <p>4. Increase their reading by activating the homework processing to cover the course topics, and to read its related scientific articles.</p>		<p>Y</p> <p>Y</p> <p>Y</p> <p>Y</p> <p>Y</p>	<p><i>The students needs more motivation and encouragement / start with the active students to present part of their ability by carry out class session exercises, and homework.</i></p>

<p>b. Cognitive Skills</p>	<ol style="list-style-type: none"> 1. <i>Evaluating and assessing the student understanding of homework activity.</i> 2. <i>Solving all practical applied difficulties within/during the practical sessions</i> 3. <i>Case studies related to the studied topics.</i> 4. <i>Students had the opportunity to implements what they have been achieved within the lecturing session time, and learned how to apply what they have taken in their future life. i.e. to effectuate their knowledge skills.</i> 5. <i>Running several short exams (Quizzes) within the session to evaluate their their performance.</i> 6. <i>Performing the med terms and final exams.</i> 7. <i>Monitoring the students lectures and Lab. attendance during the time duration of the semester.</i> 		<p>Y</p> <p>Y</p> <p>Y</p> <p>Y</p> <p>Y</p>	<p><i>No computer Lab. Available and No PC connected to Data show in the lecture room / sometimes students use their own computers if available</i></p>
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<p>c. Interpersonal Skills and Responsibility</p>	<p><i>1. Pushing the student by continuous writing to gain knowledge and confidence in their writing, dialogues, and increasing their scientific thinking.</i></p> <p><i>2. Working out all problems they face during practical sessions.</i></p> <p><i>3. Pushing the students to practise discussions during the lectures.</i></p> <p><i>4. Encouraging students to present and lead-part of the lecture.</i></p> <p><i>5. Running a continuous student's evaluation within/throughout the semester session.</i></p>	<p>N</p>	<p>Y</p> <p>Y</p> <p>Y</p> <p>Y</p> <p>Y</p> <p>Y</p>	<ul style="list-style-type: none"> • <i>The students needs more motivation and encouragement / start with the active students to present part of their skills by running an further home Exercises.</i> • It is an essential to enhance and to develop students abilities and skills in English language ish nee
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d. Numerical and Communication Skills	<p><i>1. Using up-to-date computer video programs that are related to course outlines and objectives in the practical sessions</i></p> <p><i>2. Utilizing the computer software and programs in the course, such as Microsoft office (Power Point, word, Excel) ... etc.</i></p> <p><i>3. Increase the ability of students to utilize the internet knowledge and data to be considered as one of their educational resource to fulfil their scientific needs and knowledge.</i></p>	N		<p><i>No Educational software licence is available/ This difficulty has been raised to the Faculty and Department administration to be solved.</i></p> <p><i>Y</i></p> <p><i>By using their personal computers.</i></p> <p><i>Y</i></p> <p><i>By using their personal computers.</i></p>
e. Psychomotor Skills (if applicable)	<p><i>1. Monitoring the mineral and rocks thin section preparation.</i></p> <p><i>2. Collecting and identifying the minerals in the Lab sessions either in mega samples or under microscope..</i></p>		Y	<p><i>Applied within the field trip that have been run within the course session.</i></p>

4. Summarize any actions you recommend for improving teaching strategies as a result of evaluations in table 3 above.

1. *Pushing the student to practise more homework that followed by small short quiz.*
2. *Run a broad and continuous collaboration and teamwork discussion activities.*
3. *Handing over most the required licensed educational of metamorphic rock processing software (if not all), to have them available for the student use within the Lab. and teaching session.*
4. *Encouraging and pushing student to read articles that are related to course objectives, and argue their achievements; to seek their abilities of writing, reading and understanding to increase their scientific sense and knowledge.*
5. *Students shall have different training courses of reading, typing, internet scientific search engines, Microsoft office and the scientific programs will be applied for this course*

C. Results:

1 Number of students starting the course:

18 students

2 Number of students completing the course:

17 students

3 Distribution of Grades :

(If percentage marks are given indicate numbers in each 5 percentile group)

	No		%	No	%	No
A	0	OR	95-100	0	70-74	1
B	1		90-94	0	65-69	4
C	4		85-89	0	60-64	1
D	5		80-84	1	< 60	7
F	7		75-79	3		
Denied Entry	0		Denied Entry			0
In Progress	0		In Progress			0
Incomplete	0		Incomplete			0
Pass	10		Pass			10
Fail	7		Fail			7
Withdrawn	1	Withdrawn			1	

4 Result Summary:

Passed:	No	10	Percent	55.6	Failed	No	7	Percent	38.89
Did not complete	No	1	Percent	5.56	Denied Entry	No	0	Percent	0

<p>4 Special factors (if any) affecting the results</p> <ul style="list-style-type: none"> • The students who failed, they are not acting seriously. • The students attendance is too high, • All the students whom failed, they registered from 7 years back. • Their performance was below the standard, even though all attempts were applied to improve their knowledge and abilities in gaining the standard level of education. <p style="text-align: center;">The results are acceptable</p>	
6. Variations from planned student assessment processes (if any) (See items C 4 and 5 in the Course Specification.)	
a. Variations (if any) from planned assessment schedule (C5 in Course Specification)	
Variation	Reason
<i>In-class activities were not applied as planned</i>	<i>Because more time has been burned up to increase their knowledge, and remove their feeling of tedious and boring</i>
b. Variations (if any) from planned assessment processes in Domains of Learning (C4 in Course Specification)	
Variation	Reason
<i>Continuous evaluation of the student in-class discussions</i>	<i>Students English skill is very weak, so, they cannot read the scientific articles, at the same time they are not reading , and</i>
7 Verification of Standards of Achievement (Eg. check marking of a sample of papers by others in the department. See G4 in Course Specification) (Where independent report is provided a copy should be attached.)	
Method(s) of Verification	Conclusion
All the exams paper were check by the Dr. Abdullah Amri	

D. Resources and Facilities

<p>1. Difficulties in access to resources or facilities (if any)</p> <p><i>1.No computer Lab. Available for practical session.</i></p> <p><i>2. Data show facility is not equipped within the lecture theatre.</i></p>	<p>3. Consequences of any difficulties experienced for student learning in the course.</p> <p><i>1.Students couldn't use up-to-date computer programs in the practical sessions.</i></p> <p><i>2.Case studies related to the studied topics cannot be explained in the class.</i></p>
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E. Administrative Issues

<p>1 Organizational or administrative difficulties encountered (if any):</p> <p><i>No difficulties come upon.</i></p>	<p>2. Consequences of any difficulties experienced for student learning in the course.</p> <p>-----</p>
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F. Course Evaluation

1 Student evaluation of the course: (Attach Survey Results if available)
a List the most important criticisms and strengths the strength : <ul style="list-style-type: none"> • Practicing the student lecturing. • Quizzes followed the homework session. • Student using their personal computers to do homework.
b Response of instructor or course team to this evaluation <ul style="list-style-type: none"> • Some students enforced the instructor to keep in touch with their performance , activities through out the course.
2. Other Evaluation -- What evaluations were received? Specify and attach reports where available. (eg. By head of department, peer observations, accreditation review, other stakeholders etc): <p style="text-align: center;"><i>Not Started (relevant) yet</i></p>
a List the most important criticisms and strengths -----
b Response of instructor or course team to this evaluation -----

G. Planning for Improvement

1. Progress on actions proposed for improving the course in previous course reports:	
Actions proposed in the most recent previous course report(s).	State whether each action was undertaken, the impact, and if the proposed action was not undertaken or completed, give reasons.
2. Other action taken to improve the course this semester/year Provide a brief summary of any other action taken to improve the course and the results achieved. (For example, professional development for faculty, modifications to the course, new equipment, new teaching techniques etc.).	
3. Action Plan for Next Semester/Year	

Actions Required	Completion Date	Person Responsible
1. <i>Furnish the Geology Department's Practical Lab with computers</i>	2010-2011	<i>Head of the Department</i>
2. <i>Furnish all computers with the educational licensed programs and softwares to be used by students .</i>	2010 - 2011	<i>Head of the Department</i>
3. <i>Grouping the student in the class room to read an article and discussing it and then scripting it, followed by an evaluation analysis.</i>	2010 - 2011	<i>Head of the Department</i>
4. <i>students needs training courses in Active learning</i>	2010 -2011	<i>Vice-Dean of the Faculty for students affairs</i>
4. Recommendations to Program Coordinator (if Required)		
(Recommendations by the instructor to the program coordinator if any proposed action to improve the course would require approval at program, department or institutional level or that might affect other courses in the program.).		
<i>The essential plan is to equip the Geology Petrology Lab. with computers and its relative data program and data show, as well as providing all or most of the required educational software to be applied. This is beside the activation of a data show device located at the classrooms to be utilized in/for the lecturing and Lab purposes.</i>		

Name of Course Instructor : *Assist. Professor Dr. Bassam A. Abu Amarah.*

Signature: _____

Date Report Completed: 28/2/1432

Received by Program Coordinator

Date: _____