هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

Course Report

Course Title:	***Metamorphic Rocks Petrology***
Code:	***Geo 326***
Program:	***Geology***
Department:	***Geology & Geophysics***
Institution:	***College of Science/ King Saud University***
Academic Year:	***1443***
Semester:	***Second Semester***
Course Instructor:	***Dr. Bassam A. Abuamarah***
Date:	***25/10/ 1443 - 2022***

Table of Contents

A. Course Identification

No	Instructor(s)	Location	Number of Sections	Number of Students	
				Starting the course	Completing the course
1	Dr. Bassam A. Abuamarah	Building 4	67582	37	37

B. Course Delivery

1. Course Contact Hours (per semester)

No.	Activity	Planned	Actual
1	**Lecture**	30	30
2	**Laboratory/Studio**	15	30
3	**Tutorial**		
4	**Others** (Specify)		
Total		45	60

2. Topics not Covered

Topics	Reason for Not Covering	The extent of their Impact on Learning Outcomes	Compensating Action*
All topics have been covered	Nil	Nil	Nil

*Compensating actions already taken or suggested

3. Teaching Strategies

Planned Teaching Strategies	Were They Implemented?		Difficulties Experienced (if any) in Implementation	Suggested Action
	Yes	No		
Course teaching (lecture, teaching, discussion, presentations, reading activities, practical training, and viewing videos and summarize it as learning tools.	*		No- difficulties	Encourage students' to optimize their Scientific learning resources.
Lab's Practical session	*		No- difficulties	No- **Actions**
Assignments of a small presented Topics, Students' Team works during lectures classes sessions,	*		No- difficulties	No- **Actions**

4. Activities/Assessment Methods

Activities/Planned Assessment Methods	Were They Implemented?		Difficulties Experienced (if any) in Implementation	Suggested Action
	Yes	No		
Performance-based assessment on lectures' direct questions, homework, assignment, Mid erm Exam, and final test.	*		No- difficulties	None.
written and running Practical assignments and Final practice tests	*		No- difficulties	None
Assessment of presented topics, direct observations	*		No- difficulties	Students have to be skilled for how to write and read scientific topics.

5. Verification of Credibility of Students' Results

Method(s) of Verification	Conclusions
• Classical Quizzes, homework duties followed by their answers after all students submitted the assignment, and activities during the course session.	Verification was 100%
• Random Samples of quizzed and exams questions reviewed by colleague.	Verification was 100%
• Investigations of the department's academic accreditation unit.	Verification was 100%

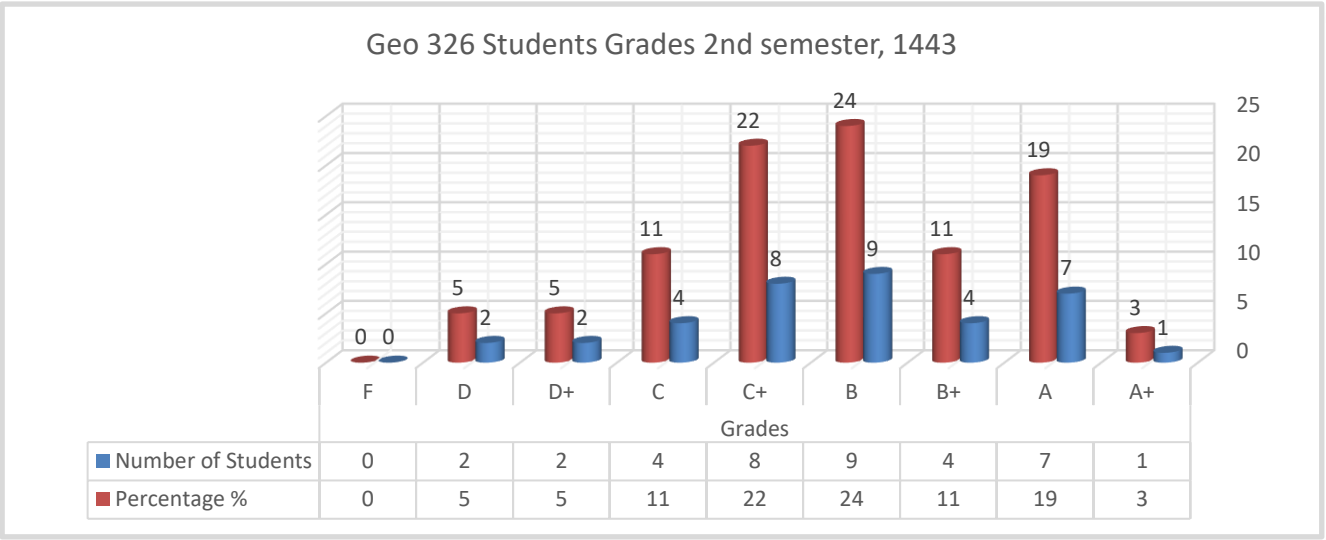
6. Recommendations

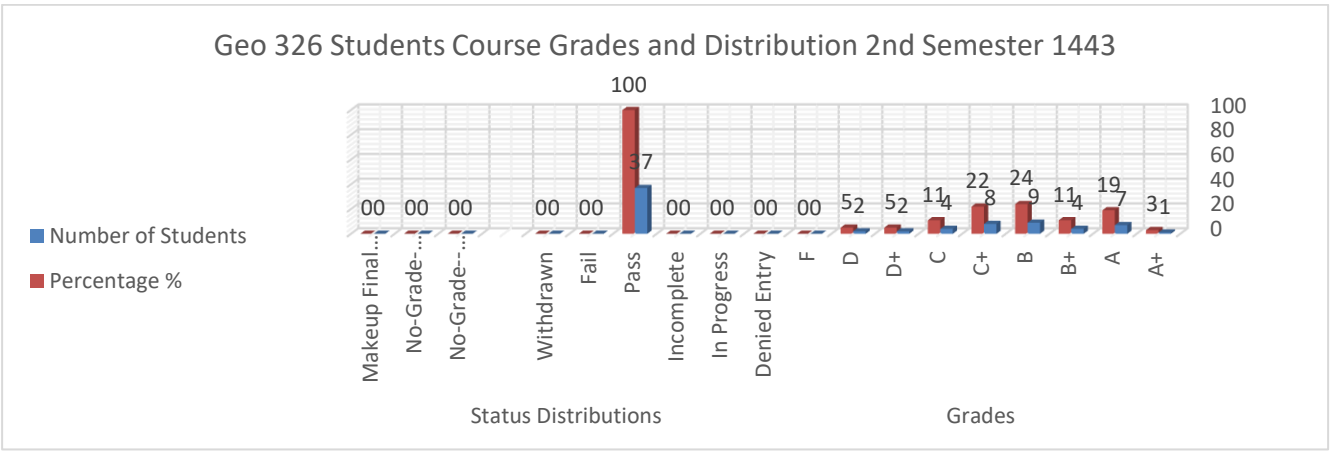
- Students ought to recognize their mistakes in assigned assignments of homework, and exams, therefore the model answers of these assignments shall be reviewed by students and colleague, in addition, all procedures of academic accreditation unit shall carried out to validate the consistency of students` results.

C. Student Results

1. Distribution of Grades

	Grades									Status Distributions								
	A+	A	B+	B	C+	C	D+	D	F	Denied Entry	In Progress	Incomplete	Pass	Fail	Withdrawn	No-Grade- Fail ف	No-Grade- Pass ن	Makeup Final exam ب
Number of Students	1	7	4	9	8	4	2	2	0	0	0	0	37	0	0	0	0	0
Percentage	3	19	11	24	22	11	5	5	0	0	0	0	100	0	0	0	0	0





2. Comment on Student Results

- **The students' achievements' and objectives results are more than 75% of each CLO's assessment. Nevertheless,**
- **College regulations and system gave them all capabilities and facilities to complete their course as some some student's were irregularity attending the lectures.**

3. Recommendations

- Students' shall run more learning tools to accomplish, to optimize their competence and skills in metamorphic rocks petrology.
- Students require to run more practical session and to run field trips' training & observation

D. Course Learning Outcomes

1. Course Learning Outcomes (CLOs) Assessment Results

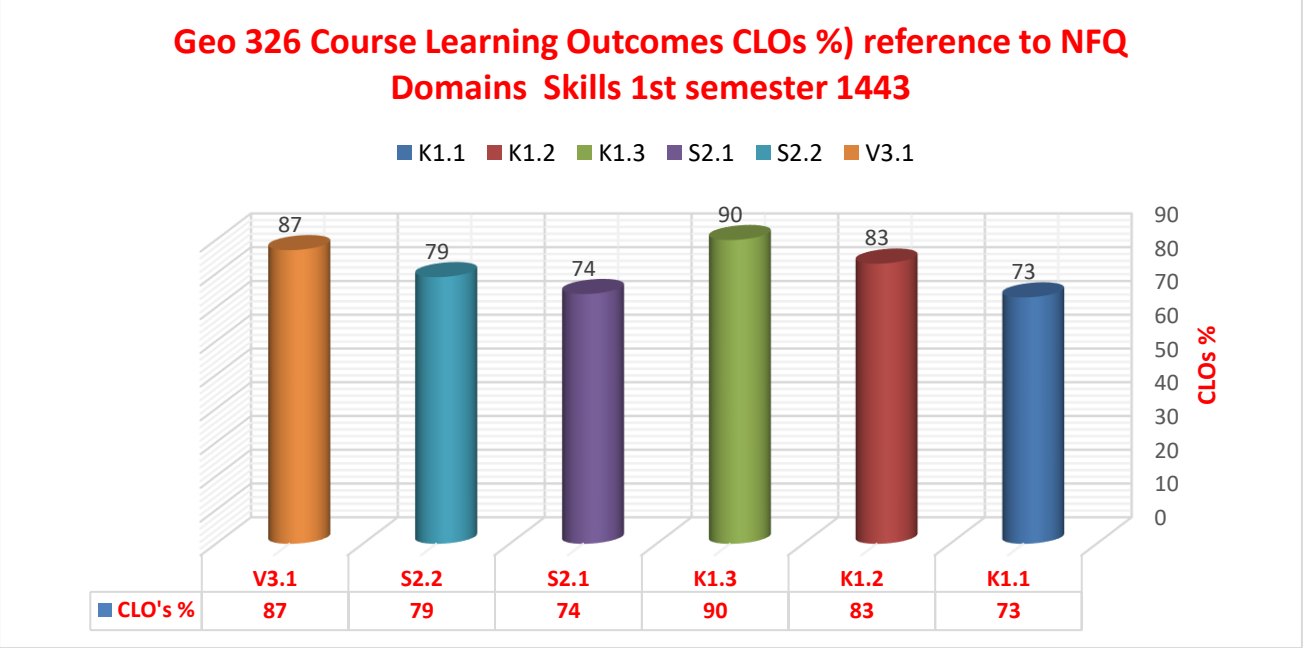
Course Learning Outcomes (CLOs)		PloS Code	Assessment Methods	Assessment Results		Comment on Assessment Results
				Target Level/ Criterion for Success	Actual Level	
1	**Knowledge and Understanding:**					
K1.1	At the end of the course's session, the student should be able to understand and clarify the different metamorphic rocks types and their conditional setting and environment.	**PLO 1**	• Direct teaching • **Home works.** • **Formal research .** • **discussion, topics and presented , reading activities** • **Final exams** • **Practical tests** **Questions and answers throughout virtual class**	**Every student must acquire more than 70% of this CLO.**	**More than 80%**	• **The minimum CLO has achieved in each student.** • **Exams, homework and lab reports are used to assess the acquired knowledge on the subject.** • **Formal research were given to rate the students' ability of knowledge of the course.** The minimum CLO has been achieved.
K1.2	At the end of semester session, the students should be able to explain, interpret the diversity among the rock's petrology, i.e. rocks' occurrence, composition, structure and their origin of each, as well as to explain rocks types characteristics, and their environmental conditions, and classify them upon their mineral's classifications, and constituents.			Student must acquire more than 75% of this CLO.	The level is more than 70%	• The minimum CLO has been achieved of more than 80%.
K1.3 ..	At the end of semester session, the students should be able to communicate and to			Students must acquire more	The CLO's is 90%.	• The minimum CLO has been achieved more than 85%.

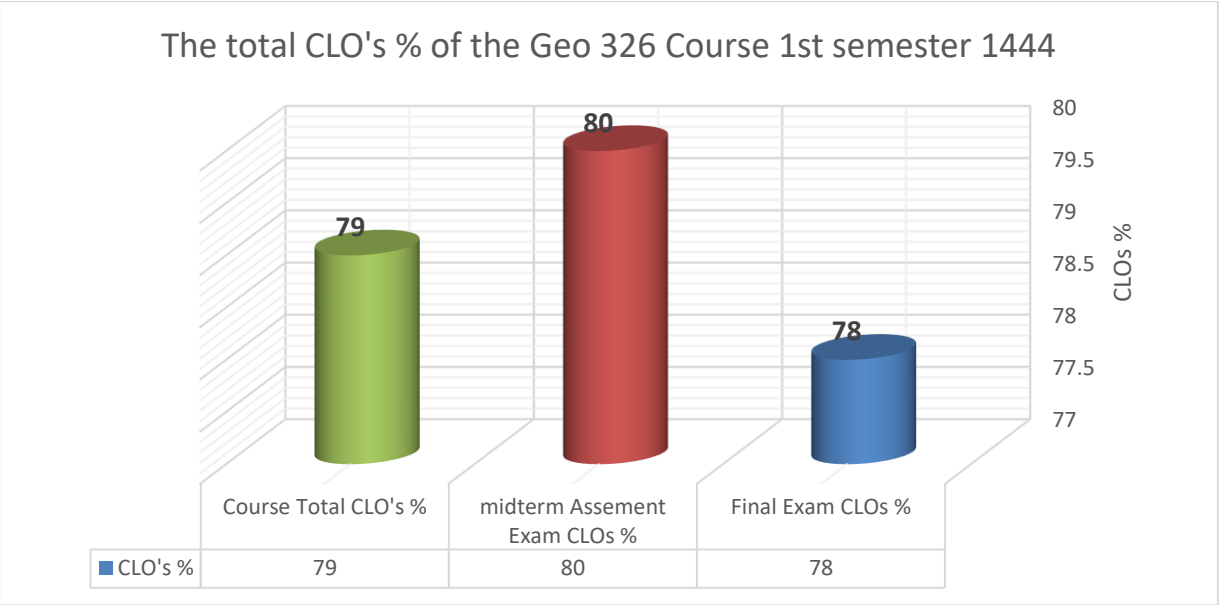
Course Learning Outcomes (CLOs)		PloS Code	Assessment Methods	Assessment Results		Comment on Assessment Results
				Target Level/ Criterion for Success	Actual Level	
	transfer their knowledge by interpreting their knowledge in different igneous, sedimentary and metamorphic rocks types diversities rocks petrology, i.e. rocks' occurrence, composition, structure and their origin (environmental conditions), and classify them upon their mineral's classifications, and constituents.			than 75% of this CLO.		
2	**Skills:**					
S2.1	• By the end of the semester, the student should be able to recognized and illustrate the different rocks' types..	**PLO 2**	• **Home works.** • **Formal researc h** • **Final exams** • **Practical tests** **Questions and answers througho ut virtual class**	**Every student must acquire more than 70% of this CLO.**	**Is about 74%**	• **The minimum CLO has achieved. student via Exams and homework will be emphasized students capability on differentiate and classify between the minerals, and their resources potentiality.** • **The minimum CLO has achieved 70%..**
S2.2	**Students shall be capable and acquainted to communicate and interpret the rocks types formation processes and environments condition, and realize their different minerals' contents and their physical properties.**				**The actual level in this semes ter is more than 75% of this CLO**	• **The minimum CLO has achieved.**

Course Learning Outcomes (CLOs)		PloS Code	Assessment Methods	Assessment Results		Comment on Assessment Results
				Target Level/ Criterion for Success	Actual Level	
S2.3						
2...						
3	**Values:**					
3.1	By the ending session of the course, the Student should be able to apply what they taught and learned in the petrological course in order to make connections among self-controls in different rocks' types		Research project, Team working in practical lessons	Every student must acquire more than 75% of this CLO.	More than 80%	The minimum CLO has achieved in each student.
3.2						
3.3						
3...						

2. Recommendations

In the next coming semester, the course strategies shall be enhanced to achieve and to maintain CLO's % to be more than 70%.





E. Course Quality Evaluation

1. Students Evaluation of the Quality of the Course

Date of Survey:25/10/1443	Number of Participants:34	Percentage of Participation: 90	Evaluation Result: 77

Students Feedback	Course Coordinator/Instructor Comments/Response
Strengths: • The course outlines of contents, objectives and course learning outcomes (CLOs) are seen and clearly obvious to students as delineated to them at the starting date of the taught semester. • Assessment methods are given numerous help to students to understand the topics. • Instructor is well-acquainted with the subject • Exam questions are suitable and marking is fair.	• More emphasis will be placed on using various source of information (textbook, web, CD…etc) • Better interaction through the internet is planned • Aspects of strength will be reinforced.
Areas for improvement: • Inadequate interaction and students' engagement throughout the online virtual lecture's sessions**.** The reading skills, and to run more assignments are required.	• We will attempt and endeavour to provide articles and assignments.
Suggestions for Improvement: • Students should be able to read out and to utilize different learning resources for improvement and to increase their reference knowledge, not only utilizing and depending on lectures' of PowerPoints.	• Students shall read out more related articles and hand-outs to course objectives along with the assigned given assignments to them.

2. Other Evaluations

(e.g., Evaluations by faculty, program leaders, peer reviewers, others)

Evaluation method : Students evaluation	**Date: 12/1000/1443**
Evaluator(s) Comments	**Course Coordinator/Instructor Comments/Response**
Strengths: • **It has the potential ability for application in the private sector.** • **It involves modern and the most important an updated knowledge of the course contents.**	
Areas for improvement: • **Students require to to utilize and optimize their activities on learning resources. Additionally, to read more articles in relation to the metamorphic rocks evolution.** • **Students need to wide their knowledge by using the library resources in order not to be fully independent on the lectures' information only.** • **Due to the limited short time of the current course, the more learning resources to by them, the more to define a specific discrete units of knowledge and skilled**	• **I shall attempt to set most of these improvement areas in attention, and consideration by next semester.**
Suggestions for Improvement: • **To encourage students to to utilize learning resources and to read more articles in relation to the Mineral properities an and evolution.** • **To run the course fieldtrips.** • **To deliberate more lab's sessions are required for improving the outcomes of the course.**	• **Students should pay more attention, awareness, and serious attitude during the virtual taught sessions via LMS, which are required for improving their course gripping skills.**

* Add a separate table for each evaluation

2. Recommendations:

- **The lecture sessions are not enough to perform all the details of the different types and properties of the rocks, therefore, the students shall be encouraged and promoted to use learning resources (Textbooks, Software, Relevant reading materials, Videos, Recordings and library).**
- **Draw the students' attention, towards the fact, that the evaluation of the taught course enrolled in the Edugate website is also related to the practical sessions run throughout the course time session, and it is not only fit the theoretical part of the taught course. Therefore, they should be fair in their course evaluation.**

F. Difficulties and Challenges

Difficulties and Challenges	Consequences	Actions Taken
Administrative Issues		
• There are no difficulties and challenges, axcept the course time is shortened	Nil	Nil
Learning Resources		
• In the laboratory, there are specified lacks of some materials.	Some the practical classes have been done without actual practical training.	The more lab-required materials and instrumentations shall be provided by the geology and geophysics department.
Facilities		
• The rocks' workshop needs to be fixed.	Deficiency in preparing rock's thin section… etc.	The department shall fix the rocks' workshops

G. Course Improvement Plan

1. Course Improvement Actions

Recommended Actions	Actions Taken	Results	Comments
a. Previous course Report Recommendations			
• Updating the course basing on the course specification.. • Applying the KPI's ratio 1:20 in order to improve session quality	Done No actions were taken to implement this KPI's ratio.	• The teaching of the course trajectory as planned. The course instructor with more than 20 students encountered for the Director to communicate with each student during the teaching session.	The course is relatively on line with recent trends of stockholder demands.
b. Other Improvement Actions*			
• In this stage, there are no developmental measures have been taken during teaching the course		The teaching of the course trajectory as planned.	The course relatively required to be on line with

Recommended Actions	Actions Taken	Results	Comments
and not included in the development plan of it.			recent trends of an updated electronic course materials.
• More course considerable materials electronically arranged in the purpose of classroom tutoring and used for or in conjunction with a course.			

* (The developmental measures taken during teaching the course and not included in the development plan of it)

2. Action Plan for Next Semester/Year

Recommendations	Actions	Responsibility For Implementation	Time		Needed Support
			Start	End	
1. Students' shall carry out extra and various home works, written assignments', and presenting small written projects activities to come up with different contributing with the class to fill in the remaining course material		Course Director	In week no 2	In week no 14	Department's Head requested to allocate and to verify running course field trip by next semester
2. Controlling the Students' engagement, and encouraging them to upgrade their English skills. 3. Refining Lab's extra topics and works to peruse skills.		Course Director and the lab's official.			
4. More updated references, learning resources and handouts for students' to understand.		Course Director			
• To run the course fieldtrip sessions		Department Head			