

وزارة التعليم العالي والبحث العلمي جامعةميسان كلية التربية الاساسية

Ministry of Higher Education and Scientific Research University of Misan College of Basic Education

Misan Journal for Academic Studies Humanities, social and applied sciences





العلوج الأنسائية والاهتماعية والتطبيقية

ISSN (Print) 1994-697X (Online)-2706-722X

# المجلد23 العدد 51 أيلول 2024 Sep 2024 Issue 51 Vol23



مجلة ميسان للدراسات الاكاديمية

العلوم الإنسانية والاجتماعية والتطبيقية كلية التربية الأساسية/ جامعة ميسان/العراق

Misan Journal for Academic Studies

Humanities, social and applied sciences

College of Basic Education/University of Misan/Iraq

ISSN (Print) 1994-697X (Online) 2706-722X المجلد (23) العدد (51) أيلول (2024) **VOL 23** SEP 2024 ISSUE51

OIS/PKP



INTERNATIONAL STANDARD. SERIAL NUMBER

STERNATIONAL CENTRE



Academic Scientific Journals



الصفحة	فهرس البحوث		
16 - 1Using of the Two Tools Analytic Hierarchy Process (AHP) and Technique for Order Performance by Similarity to Ideal Solution (TOPSIS) in Multi-Crite Decision Making			
	Ali Dawood Salman Al-khanaqini Omar Mohammed Nasser alashary		
26 - 17 Investigation of piranha solution on Color Stability of heat cure acryli			
	Beamforming and Resource Allocation for Heterogeneous Bands in 6G		
33 - 27	Mustafa N. Mnati	3	
E1 24	The Sounds of Colours: A Pragmatic Study of Toni Morrison's The Bluest Eye	4	
51-54	Rafah Abdulkareem Adham Hassan Muayad Hamid	4	
60 - 52	Diagnostic Accuracy of GCF IL33 and sST2 For Periodontitis Stage I, II, and III	5	
	Samar A. Abood Ayser N. Mohammed		
76 - 61	The Globalization of Human Rights: A Critical Assessment	6	
70 01	Omowonuola OKUNNU Bimbo OGUNBANJO	Ŭ	
	Impact of erythritol air polishing in supportive periodontal care: literature		
87 - 77	review	7	
	Muhsin Kadhim Abbas Hayder Raad Abdulbaqi		
400.00	Distributed Random Number Generation Fair and Reliable for Blockchain	•	
102 - 88	Applications	8	
	Mays Moneer Abd Ali Bashar M.Nema		
114 100	Adnesion of 3d printed acrylic resin with sincone soft liner after sandblast surface treatment (A Review of Literature)		
114 - 103		9	
	Mohammed Taqi S. Wadi Bayan S. Khalaf		
	Solution on the roughness of Heat-cured and CAD/CAM Polymethyl		
125 - 115	Methacrylate Resin	10	
	Ahmed I.Shanef Firas Abdulameer Farhan		
	Evaluation the Salivary levels of Interleukin-23 in Individuals with		
135 - 126	Thyroid Disorders	11	
	Riam Hassoun Harbi Maha Adel Mahmood		
	The Interplay Between Chronic Kidney Disease and Periodontal Health: A		
150 - 136	Comprehensive	12	
	Ahmed M Mahdi Maha Sh Mahmood		
	Ethics In Orthodontic Clinical Practice: (A review article)		
157 - 151	Zainab Mousa Kadhom Alaa Faleh Albo Hassan	13	
	Shaymaa Shaker Taha		
450 450	Preparing of Controlled Release Systems for Atenolol and Studying it is in Vitro		
172 - 158	Dissolution and Sweining	14	
	Monammed R. Abdul - Azeez Evaluation the solivory <i>anti Pornhyromonas gingiyalis</i> (IgA and IgC) response		
179 - 173	in relation to sera levels of Ferritin and Vitamin D in Patients with Reta-		
	Thalassemia Major	15	
	Shahad fayiz abd Maha Adel Mahmood		
	The role of different adjunctive plaque control modalities in orthodontic		
188 - 180	patients with gingivitis	16	
	Ola Issam majed Raghad Fadhil abbas		

	Assessed performance of E-learning methods and benefit from (AI) for			
205 - 189	Undergraduate Engineering stage			
205 107	Ali Dhahir Alramadhan			
	The use of counterpoint in Kurdish orchestral compositions:			
224 - 206	(Dilshad Muhammad Saeed)	18		
	ary kadir Mohammed Seerwan Mohammad Mustafa			
	Demographic Transitions and Spatial Reallocation of Population Variables in			
249-225	the Administrative Territories of Al-Majar Al-Kabeer District Over the Period	10		
240-225	1997-2022	19		
	Ahmed Sihoud Hashem			
	The economic and social reasons leading to the phenomenon of child labor in Al-			
263 - 249	Funud district in the year 2023	20		
	Osama Hameed Majeed			
	Exposure to Iraqi satellite channels and its role in shaping public attitudes			
277 - 264	toward political organizations	21		
	Khuzaymah Nizar Khudair			
204 270	The Situational Implicture of Al-Sararqus in the Structural and Stylistic	22		
294 - 278	Correlation Karima Abed Jumaa	22		
	Isolate and Identification of Rhizoctonia solani Kühn causing Eggplant rot and			
	accompanying bacteria with toxicity studying of fungicides and their effect in	22		
314 - 295	vitro	23		
	Alaa Hassan Al-Farttoosy Fatima Chasib Bader			
	A Geopolitical Approach to the City ; with Emphasis on the Central Elements of			
331 - 315	Power and Competition	24		
	Hasan Kamran Dastjerdi Narjessadat Hosseini			
	ADDAS GHAII AI-HADIIM Patterns of Multiple Intelligences among High School Students in Mison			
0.4 <b>-</b> 0.00	Governorate According to The (TEEN-MIDAS) Scale and Their Relationship to	~ -		
347 - 332	Achievement			
	Haneen Mahdi Siker Ahmed Abdul-Muhsin			
	The Impact of Transitional Regulations on the Application of National			
364 - 348	Reconciliation and National Amnesty Mechanism (A Comparative Study)	26		
	Hadi Hassan Kashash AlRikabiu Sayyid Ali Mirmad Najafabad			
381 - 365	Technical Diversity in Contemporary Kurdish Art	27		
	Sirwan Rafat Ahmed			
389 - 382	The interpretive approach at Al-Shahrastani	28		
507 502	Mohammed Reda Salman Mohammed Ali Tajery Reda Moadeb	_0		
	The Degree of Consistency Between Mathematics Teachers' Beliefs Towards			
409 - 390 Constructivist Learning and Their Practice of its Skills		29		
	Haider Abdulzahra Alwan			
	Hadiths posted about Imam Ali (peace be upon him) on social media platforms			
420 - 410	and their impact on society's behavior	30		
	Lectuer.Mohammed Jabbar Jassim Ali			
	The stylistic diversity that transformed the form and concept			
442 - 421	of contemporary visual arts.	31		
	Rajaa Kareem Jiboori Alobaidi			





**ISSN (Print) 1994-697X** ISSN (Online) 2706-722X

DOI: https://doi.org/10.54633 /2333-023-051-017



# Assessed performance of E-learning methods and benefit from (AI) for **Undergraduate Engineering stage**

Ali Dhahir Alramadhan

Department of Petroleum, College of Engineering, University of Misan, Iraq, alidh11@uomisan.edu.iq https://orcid.org/0000-0002-1334-1280

## Abstract:

A teaching technique in educational institutions is considered an important state that reflect the performance of study. It is classified in to two methods, self-study and distance study that each method has advantages and disadvantages. In this paper, an innovative education method based on mixed method to associate their advantages and eliminate their disadvantages. It is employed using artificial intelligence (AI) and elearning techniques for undergraduate engineering stages. The study is conducted on the main problems of a teaching geology subject such as of qualitative assessment, acquired knowledge and competencies in the department of petroleum engineering, college of engineering, University of Misan in Iraq. It is applied on 204 student that are study in the first stage the department of petroleum engineering during one years. The outcomes of this study prove that the proposed method achieves a higher successful rate of (80%), focused on evaluating the effectiveness of teaching and learning methods and aids used in general geology courses.

Keywords: General Geology, Teaching methods, Artificial Intelligence, learning style, Teaching Aids, E-learning.

## **1- Introduction:**

In general, there are two major methods of a teaching study, selfstudy and distance-study. Each method has advantages and disadvantages regarding to the field study.

Advantages and disadvantages of methods point out that e-learning is more student-cantered, compared to face-to-face learning, which is more teacher-cantered, as it does not focus exclusively on instructions and guidelines coming from teachers, but it is individually adjustable to the student. The difference between e-learning and face-to-face learning has also been pointed out in relation to the main sources of information .

Recently, the e-learning teaching method in educational institutions has been utilised dramatically due to the development of a life-style. This concept by any means, even without any ideological support. This leads to the fact that the university is "Reinventing the wheel", although it does not represent why they need it and for what reasons. This leads to time costs and the product does not always correspond to qualitative characteristics.

Therefore, the need for understanding the concept of e-learning, and this problem should be solved within the responsibility of the in the state(1)

By reviewing previous studies, it became clear The results also specify the advantages and disadvantages of the two forms of education from a double perspective, namely that of first-year students (beneficiaries of both face-to-face and e-learning).

The points out key information about e-learning from the students' perspectives, which should be considered to understand the ongoing changes of the educational process and to solve its specific problems, thus ensuring its sustainability[2]. During the first year of engineering studies in Iraq and globally, General Geology is a fundamental subject. The General Geology course consisted of teaching Structural geology, Petroleum geology, Petroleum geology such as basic principles and applications of Petroleum geology in the oil fields, Petroleum geology is the study of origin, occurrence, movement, accumulation, and exploration of hydrocarbon fuels, using specific reagents to distinguish between organic compounds, the skill of inferring 3-dimensional characteristics from them is one of the most fundamental in petroleum geology (3). While, in basic Geology, it is the science of the three-dimensional study of the distribution of rocks taking into account the history of their formation. The primary goal of structural geology is to use present-day rock measurements to reveal information about the history of rock formation. Typically, the phrase learning styles refers to the learning strategies of obtaining, organizing, processing, and interpreting thinking about information, or to a combination of elements, including attitude and behaviour, that make learning simpler for individuals (3). Identifying and understanding students' learning styles is crucial for enhancing the learning process and supporting their strengths and weaknesses. By recognizing these differences, educators can design and develop learning tools that cater to various styles, ultimately strengthening the learning experience for all students (4). Fleming (5) has demonstrated Students who prefer visual learning can soak up information most effectively when it is presented visually, using materials such as charts, graphs, pictures, and diagrams. However, visual learning is not the only important factor. Students who prefer learning through images and other visual media best learn information through watching videos, demonstrations, and interpreting text and graphics. Visual learning helps to: absorb and memorise information faster, utilise space when formatting notes, and enable quicker absorption and use of information in one's environment. As it happens, approximately 65% of the population are visual learners, so how knowledge is transmitted in society is also very visual. According to batch (4), two types of students who prefer to learn through reading and writing are referred to as "r" learners and those who learn better through hands-on experience and practical applications are known as "kinaesthetic" or "k" learners. It emphasizes the importance for faculty members to understand the learning attitudes and preferences of their students, as learning styles refer to the most efficient and effective ways in which learners perceive, store, process, and recall information. The study of learning styles is a complicated topic with over 70 models and components. The most effective approaches take into account the preferences and characteristics of the learner to improve performance and grades in the classroom. In addition, a broad range of factors, including experience, ethnicity, age, culture, and degree of preparation, as well as learning preferences and styles, are currently represented among engineering students (7).

This variation is even more appreciated because it pushes the teacher to fulfil each student's educational needs and allows each student to develop according to their preferred learning style and method when following the approved directions as a group (8). As a result, it is the instructor's responsibility to understand the variety of learning styles and create effective teaching strategies (9)(10).

## 2- The use of artificial intelligence in education:

The development of computing, information processing technologies and artificial intelligence (AI), have been widely applied in educational practices (artificial intelligence in education; AIEd), such as intelligent teaching systems, educational robots, learning analytics dashboards, adaptive learning systems, and human learning. General form: It is expected that classrooms and lecture halls in universities will soon move from the traditional framework of learning to using a combination of robots and artificial intelligence designed as needed. A large and growing percentage of students will benefit from the use of robots that are characterized by continuity and flexibility, and teachers will also benefit from artificial intelligence techniques to the same extent. The advantages of using artificial intelligence in education are as follows:

AI technologies can provide the required support to the student outside the classroom. Students who learn the basic principles of reading, science, mathematics, and other sciences rely mainly on explanations from their teachers and parents to understand these foundations and rules. Since the time of teachers and parents is limited, this puts a lot of pressure on different parties and the result may not be satisfactory. However, when an intelligent, dedicated assistant that is available, who can know the student's abilities, strengths and weaknesses, and the topics in which he suffers from a lack of understanding or a lack of information, then he can adapt the scientific material and even the entire educational process to suit the individual's capabilities and provide the required assistance and support in At the specified time and in a manner appropriate for each individual student. On this basis, the results are supposed to be more positive when every student, regardless of financial capabilities, geographical location, or mental abilities, has something like a private teacher available at all times and in every place.



Fig1: Interactions of components in an intelligent tutoring system.

AI system can always be prepared to offer aid from tutoring model's built-in teaching theories. User interface explains learners' performance through multiple input media (voice, typing and click) and provides output (texts, figures, cartoons and agencies). The advanced human-machine interface provides AI-related functions including natural language interaction, speech recognition and learners' emotion detection.

current uses of AI in education that include:( Classroom Audio-Visual, Assessment, Classroom/Behavior Management, Parent-Teacher Communication, Maintenance, Finance, Lesson Planning, Transportation, Language Learning, Safety and Security, Test Prep, Cybersecurity, Learning Management Systems, Professional Development, Staff Scheduling and Substitute Management, Gamification for Enhanced Student Engagement)

## **3-** Materials and Methods:

The research is conducted on the first-year engineering students at the undergraduate level. The students are given a voluntary questionnaire comprising 25 statements, divided into two parts(11). The first part consisted of questions about the current teach-to-learn processes of the General Geology module, aiming to gather information based on the students' responses to target future improvements and modifications (12). The second part of the survey focused on teaching-learning methods and aids, with 10 questions divided into two sections. The first section addressed various learning styles, such as the best methods for exams or exam preparations. The second section inquired about teaching aids and students' preferences for methods of delivering lectures, including the use of whiteboards, E-learning methods, PowerPoint presentations, scientific videos, pictures, and models. Additionally, the General Geology module was scheduled to be taught twice a week for three hours and once a week for practical classes, based on a pre-formatted timetable (13).

The study's objective was communicated to the students without revealing the potential outcomes. At the beginning of the questionnaire, students were asked about their names and gender. Their responses were evaluated using a Likert-type scale ranging from 1 to 5, with only one question being based on a yes, no, or neutral basis, which inquired about their preference for General Geology. The collected data was analysed using Microsoft Excel (14).

## 4- The results of the reactions:

The survey was completed by a total of 204 first-year engineering students, of which 197 responses were included in the analysis. The participants comprised 74 male and 123 female students (15). See Figure 1.







Out of all the students, the first question about liking General Geology was the only one that received responses from every student. The results indicated that 76% of the students liked the subject, 6% did not, and 18% were neutral.

## 5- Teaching learning methods & helps in General Geology:

The students' preferences favoured various teaching and learning methods that were perceived as popular, interactive, and highly useful. These included monthly exams with fewer topics, pre-main exam assessments, extensive problem-solving tasks for exam preparation, and the use of electronic examinations. Additionally, the use of prepared quizzes was well-accepted, as they helped students identify their knowledge gaps and served as a motivation for further study. As illustrated in Figure (2).





The next section of the survey asked students to provide feedback on the most and least appreciated teaching methods or aids. Students suggested that incorporating educational materials into the General Geology lecture would make the session more interactive. Notably, the engineering students at Misan Engineering College expressed a preference for the whiteboard as the educational method and quiz tests via their mobile phones (MCQ tests)( The professor feeds the Moodle platform with questions and then tests them ) (17). See Figure 3.

**Misan Journal for Academic studies** 

Sep

2024

Vol 23 Issue 51

عجلة ميسان للدراسات الأكاديمية

مجلد 23 العدد 51 ايلول 2024



Figure 3: Graph showing the opinion of 1st engineering students towards the various teaching aids used for Conducting General Geology theory classes.

The whiteboard + PowerPoint presentation method was highly favoured among first-year engineering students and was greatly appreciated. Additionally, the survey results indicated a strong preference for the use of diagrams, pictures, and videos during lectures. The primary reason for favouring the whiteboard method was its potential to enhance student-teacher interaction, minimize attention diversion, maintain good eye contact, and present easily understandable content. On the other hand, the PowerPoint method was favoured by students due to its ability to display text, diagrams, and images on the same slide with high quality, making it legible and engaging (18), Sending lectures and tests on the Moodle platform had a significant impact on enhancing students' understanding of the subject well and the professor's communication with them. (19).

## 6- Perceptions and opinions towards improving teaching-learning of General Geology:

According to the results, a significant number of students agreed and supported the advantages of learning general geology during Students, felt that the English language utilized in the learning process was challenging, and they needed enough time to get the answers to their inquiries. It was thought that the scientific jargon employed in engineering geology lectures was simple to pick up and comprehend. the e-learning and AI character had a big influence on their teaching strategies (20). See Figure 4.

محلة ميسان للحراساتة الإكاديمية

مجلد 23 العدد 51 ايلول 2024

Misan Journal for Academic studies Vol 23 Issue 51 Sep 2024



Figure 4: Improve teaching learning of General Geology via perceptions and opinions

he results showed a high level of agreement and support from students regarding the benefits of studying General Geology. However, students found the English language used during the learning process to be difficult, and they required sufficient time to obtain answers to their questions. The scientific language used in engineering Geology lectures was considered easy to learn and understand. Additionally, the students believed that the Integrating e-learning and AI had a significant impact on their teaching methods (21). See Figure 5.



Figure 5: Improve teaching learning of General Geology via perceptions and opinions

#### 7- Results:

Materials and Methods: In the second semester of the 2021-2022 academic year, a thorough survey was conducted among undergraduate engineering students at the Department of Petroleum Engineering, College of Engineering, University of Misan.

The feedback was analysed using the Likert scale to classify their preferences and attitudes toward the survey statements.

The study revealed that certain combinations of teaching, learning, and aid methods were highly satisfactory to students, while others were least preferred. Geology was the most popular subject among the majority (76%) of students. The majority of students found exam preparation techniques, practical exercise lectures, and various teaching aids to be excellent and very good methods. To improve the teaching of General Geology, students' opinions and preferences suggested the need for more preparation techniques for main exams and the use of multiple teaching aids, such as Simulation in laboratories, whiteboards, PowerPoint presentations and technology-based approaches by AI, during lectures. By taking into account students' perceptions, the teaching and learning processes in Geology can be enhanced (1).

#### 8- Discussion:

Students' experiences with teaching and learning methods during their first year at the College of Engineering, University of Misan, are documented in this study. There is limited literature on students' preferences and opinions regarding the General Geology module. Although it is a two-semester course in Iraqi engineering colleges, the issues discussed in this research and students' perceptions are likely to be similar in other countries, in terms of understanding the material, learning methods, and the integration of e-learning with face-to-face learning, even with different curricula or longer course lengths.

#### 9- Conclusion:

In this work, mixed teaching method based on self-study and distance study has been utilized using e-learning and AI technique. This research confirmed the preferred learning methods and tools of some students, and confirmed that comprehensive understanding of the lecture does not depend on the lecturer's style alone. On the basis of the foregoing, it can be concluded that a high-quality training is possible, but it requires: the use of technology, e-learning, tests and electronic tests is an important factor in improving students' performance and their continuous interaction with the professor and the study material. Interest and understanding of the issues of learning structures. Develop AI approaches and tools of certain students and affirmed that a comprimarios to improve machine behavior in such - that major simultaneously in which these technologies are evolving with the use of artificial intelligence and e-learning

In the first semester of academic year, Students were taught to use e-learning using artificial intelligence and achieved good results through that.

# **Descriptive statistics**



It is best for students in the first stage to do monthly written exams and a few	Agree	90
topics in General Geology to facilitate understanding and learning		
	Strongly	87
	Agree	
	Neutral	18
	Disagree	0
	Strongly	0
	Disagree	
The best way is to have an introductory exam before the monthly or quarterly	Agree	62
exams, its grades are not calculated only for preparation		
	Strongly	113
	Agree	
	Neutral	13
	Disagree	7
	Strongly	2
	Disagree	
The best way to learn for students with General Geology is through surprise or	Agree	70
pre-prepared quizes for students to establish understanding and learning		
	Strongly	21
	Agree	
	Neutral	44
	Disagree	39
	Strongly	23
	Disagree	
It is better for the student to give him homework and many questions and a duty to	Agree	73

**Misan Journal for Academic studies** 

2024

Vol 23 Issue 51 Sep

جلد 23 العدد 51 ايلول 2024

solve with General Geology to facilitate understanding, learning and preparing for		
the main exams		
	Strongly	51
	Agree	
	Neutral	44
	Disagree	22
	Strongly	7
	Disagree	
It is best for students to do viva voce for small topics in General Geology to	Agree	63
facilitate understanding, learning and preparation for major exams		
	Strongly	47
	Agree	
	Neutral	42
	Disagree	37
	Strongly	8
	Disagree	



nins Misan Journal for Academic studies 2024

مجلة ميسان للدراسات الأكاديمية

Vol 23 Issue 51 Sep جلد 23 العدد 51 ايلول 2024

Did you like the subject of General Geology	Yes	149
	No	13
	Neutral	35





مجلة ميسان للدراسات الأكاديمية

Kan in Misan Journal for Academic studies Vol 23 Issue 51 Sep 2024

مجلد 23 العدد 51 ايلول 2024

The study of General Geology for the first stage is considered basic	Agree	105
and useful for students of engineering colleges		
	Strongly	45
	Agree	
	Neutral	37
	Disagree	8
	Strongly	2
	Disagree	
Are first-stage students facing difficulty in the English language	Agree	58
offered and translated in General Geology lectures		
	Strongly	47
	Agree	
	Neutral	53
	Disagree	35
	Strongly	4
	Disagree	
Do your instructurs give enough opportunity to clarify your doubts	Agree	91
of students in the General Geology lectures		
	Strongly	14
	Agree	
	Neutral	75
	Disagree	13
	Strongly	4
	Disagree	
Do you think that the language of lectures presentation is simple to	Agree	96
the student to learn		
	Strongly	18
	Agree	
	Neutral	66
	Disagree	12
	Strongly	5
	Disagree	
Does the character and strength of the lecturers influence his	Agree	76
improvement in his teaching method of General Geology		
	Strongly	98
	Agree	
	Neutral	14
	Disagree	4
	Strongly	5
	Disagree	

مجلة ميسان للدراسات الأكاديمية

2024 العدد 51 ايلول علد 23

**Misan Journal for Academic studies** Vol 23 Issue 51 2024

Sep



Are the objectives (what is to be taught) clearly outlined at the beginning of General Geology lectures	Agree	110
	Strongly Agree	40
	Neutral	35
	Disagree	9
	Strongly Disagree	3
Do you generally understand the concepts outlined in General Geology lectures	Agree	85
	Strongly Agree	15
	Neutral	80
	Disagree	12
	Strongly Disagree	5
The division of General Geology into 3 sections are 1-Analytical 2- Organic 3-Geologyis a good division for the student	Agree	111
	Strongly	15

**Misan Journal for Academic studies** 

Sep

2024

Vol 23 Issue 51

Agree Neutral 38 23 Disagree Strongly 10 Disagree The level of learning is good in practical General Geology in general 102 Agree = Chemistry Lab Strongly 56 Agree Neutral 30 7 Disagree Strongly 2 Disagree



مجلة ميسان للدراسات الأكاديمية

Kan in Misan Journal for Academic studies Vol 23 Issue 51 Sep 2024

مجلد 23 العدد 51 ايلول 2024

It is best for the student to have a General Geology lesson that	Agree	96
contains educational methods and be an interactive lesson for		
students		
	Strongly	82
	Agree	
	Neutral	16
	Disagree	2
	Strongly	- 1
	Disagraa	1
It is better for the student in the first store to have his lastures	Disagiee	40
It is better for the student in the first stage to have his fectures	Agree	49
using white board only to explain in the Geologysubject		10
	Strongly	10
	Agree	
	Neutral	78
	Disagree	4
	Strongly	15
	Disagree	-•
It is best for the student in the first stage to have his lectures using	Agree	76
a PowerPoint data projector only for explanation in General	rigice	70
Geology lectures		
Ocology lectures	Strongly	7
	Agree	1
	Agree	()
	Neutral	63
	Disagree	43
	Strongly	9
	Disagree	
It is best for the student in the first stage to have his lectures by	Agree	99
using (data point display device + whiteboard) together to explain	-	
the General Geology		
	Strongly	60
	Agree	
	Neutral	31
	Disagree	6
		1
	Strongly	1
	Disagree	00
It is best for the student in the first stage that the General Geology	Agree	93
lectures contain many solids, diagrams, pictures and videos of the		
topics explained to establish understanding		
	Strongly	89
	Agree	
	Neutral	16
	Disagree	3
	Strongly	- 1
	Disagree	1
	Disagice	

محلة ميسان للدراسات الأكاديمية

مجلد 23 العدد 51 ايلول 2024

Misan Journal for Academic studies

Vol 23 Issue 51 Sep 2024



#### **References:**

- S. Ashraf, T. A. Khan and I. ur Rehman, E-Learning for Secondary and Higher Education Sectors: A Survey, (IJACSA) <u>International Journal of Advanced Computer Science and Applications</u>, Vol. 7, No. 9, pp. 275-283, 2016.
- Gherheş, Vasile, Claudia E. Stoian, Marcela Alina Fărcaşiu, and Miroslav Stanici. 2021. "E-Learning vs. Face-To-Face Learning: Analyzing Students' Preferences and Behaviors" *Sustainability* 13, no. 8: 4381. <u>https://doi.org/10.3390/su13084381</u>
- 3. Jory Brass. Personalized Learning: A History of the Present. Vol. 35 No. 2 (2020): Journal of Curriculum Theorizing. <u>https://scirp.org/reference/referencespapers?referenceid=2771130</u>
- Z. Zdravev, G. Dimov and S. Krsteva .(2011), E-learning in Higher Education through E-learning center, The 8th International Conference for Informatics and Information Technology (CIIT 2011), pp. 1–4.<u>Google</u> <u>Scholar</u>
- Teasdale, R., & Aird, H. (2022). Aligning multiple choice assessments with active learning instruction: More accurate and equitable ways to measure student learning. Journal of Geoscience Education, 71(1), 87– 106. https://doi.org/10.1080/10899995.2022.2081462
- Davadas, S., & Lay, Y. (2020). Contributing factors of secondary students' attitude towards mathematics. *European Journal of Educational Research*, 9(2), 489-498. <u>https://doi.org/10.12973/eu-jer.9.2.489</u>
- Batch, Richard M.(2019) "Medication order processing and reconciliation." U.S. Patent No. 10,387,619. 20 Aug.
- 8. Fleming ND. VARK visual, aural/auditory, read/write, kinesthetic. New Zealand: Bonwell Green Mountain Falls.



 Nasyrov IK, Kryukov VG, Danilayev DP, Aleksandrova LA.(2015), Innovative Technology of the Organization of the Educational Process and Evaluation of the Quality of Education, Kazan: Publishing House, Alexandrova LA, Alramidan A.

Google Scholar

- 10. Carnegie Classification. (2019). The Carnegie Classification of Institutions of Higher Education. http://carnegieclassifications.ie.edu/
- 11. Mahmood A, Khatoon F, Ali M, Ejaz S, Afzal K, Qureshi MA.(2011) Perception and Preferences of undergraduate engineering students regarding the use of contemporary teaching aids at Dow international engineering college, Karachi. EDITORIAL BOARD.7;5:34. <u>https://jduhs.com/index.php/jduhs/article/view/1533</u>
- Gold, A. U., Pendergast, P. M., Ormand, C. J., Budd, D. A., Stempien, J. A., Mueller, K. J., & Kravitz, K. A. (2018). Spatial skills in undergraduate students—Influence of gender, motivation, academic training, and childhood play. Geosphere, 14(2), 668–683. https://doi.org/10.1130/GES01494.
- 13. KNIGHT-SCHRIJVER, V. R., et al. The promises of quantitative systems pharmacology modeling for drug development. Computational and structural biotechnology journal, 14: 363-370.
- 14. Priyadarshini KS, Shetty HV, Reena R.( 2016) Assessment of different teaching aids and teaching methods for the better perception of Geologyby 1st MBBS students. Journal of evolution of engineering and dental sciences.1(6):1159-65.
- 15. Marinoiu, B., Cras, J. Y., Boixel, R., & Bolf, D. (2018). U.S. Patent No. 9,881,032. Washington, DC: U.S. Patent and Trademark Office.
- N. Jamil, A. N. Belkacem, S. Ouhbi and C. Guger, "Cognitive and Affective Brain–Computer Interfaces for Improving Learning Strategies and Enhancing Student Capabilities: A Systematic Literature Review," in IEEE Access, vol. 9, pp. 134122-134147, 2021, doi: 10.1109/ACCESS.2021.3115263.
- 17. A. Pant.( 2014), Distance Learning: History, Problems and Solutions, Advances in Computer Science and Information Technology, vol. 1, No. 2, pp.65–70, November. <u>Google Scholar</u>
- Andrusiak V.(2012) Comparative EEG analyses of learning effectiveness using paper books, e-books and audio books Andrusiak V., Kravchenko V. Vysnik of Taras Shevchenko National University of Kyiv. 2017;2:74.
- Ali Dahir Alramadan, Nsaif Jasim Al-Chaabawi, and Ameer Lateef Saleh.(2020). Material analysis and on MOODLE software in Misan University. AIP Conference Proceedings 2235, 020014; Published Online: 04 May 2020. <u>https://doi.org/10.1063/5.0007608</u>
- Andrusiak V, Kravchenko V.(2019) Analysis of efficiency of perception of information depending on the individual learning style. Bulletin of Taras Shevchenko National University of Kyiv-Biology. 2;78(2):61-7. <u>http://dx.doi.org/10.21511/ppm.</u>
- Shaunda L. Wood.( 2010) Technology for Teaching and Learning: Moodle as a Tool for Higher Education, International Journal of Teaching and Learning in Higher Education, vol 22, No. 3, pp. 299–307. <u>Google</u> <u>Scholar</u>
- 22. Zaydullina S.G.( 2014), Information Support of the Learning Process on the Basis of Classification Models of Trainees, Teaching of Information Technologies in The Russian Federation: Materials of the Twelfth Open All-Russian Conference (15-May 16, 2014) Kazan, pp.196–197. <u>Google Scholar</u>