

Research Lab Sheet

Lab Name	Sedimentary rocks and Engineering geology
Academic Year	2021-2022

Basic Information	
Department	Geology
Location	western corridor
Total area (m²)	64 m²
Head of the lab	Prof. Dr. Abd El Hamid El Shater
Establishment date	1/10/1975

Lab Members				
No. of Prof.	No. of Ass. Prof.	No. of Lect.	No. of Ass. Lect. & Teaching Assistants	No. of technicians
4	0	2	2	0



حاصلة على شهادة الاعتماد من الهيئة القومية
لضمان جودة التعليم والاعتماد في 12/7/2012م





كلية العلوم
Faculty of Science

حاصلة على شهادة الاعتماد من الهيئة القومية
لضمان جودة التعليم والاعتماد في 2012/7/12م



جامعة سوهاج
University of Sohag

Staff members

#	Name	Scientific degree	e-mail	Specializations	C.V
1	Abd El Hamid El Shater Abd El-Hamid	Professor	hshater@yahoo.com ; shater53@science.sohag.edu.eg	Mineralogy of Clastic sediments	Link of homepage
2	Tawfiq Mohamed Mahran	Professor	mahranamh_9900@yahoo.com	Sedimentary rocks and sequence stratigraphy	
3	Abdallah Mohamed Hassan	Professor	A_M_Hassan62@yahoo.com geoabdallah@gmail.com	Sedimentary rocks and sequence stratigraphy	
	El-Sayed Sedek Abu Seif	Professor	elsayed_71@Yahoo.com; elsayed.abdelah@science.sohag.edu.eg	Engineering Geology	
4	Yasser Bayoumy Mohamed	Lecturer	y.b.refaey@uva.nl	Sedimentary rocks	
5	Wafaa Ahmed Mohamed	Lecturer	<u>Wafaaahmed602@yahoo.com</u>	Sedimentary rocks	

Ass. Lecturers & Teaching Assistants

#	Name	Scientific degree	e-mail	Specializations	
1	Reham Youssef Mohamed	Teaching Assistant	reham.youssef@science.sohag.edu.eg Rehamyousufmohamed@gmail.com www.linkedin.com/in/reham-yousuf-mohamed-61b33417a	Sedimentary rocks and sequence stratigraphy	
2	Esraa Hassanain	Teaching Assistant	Esraa.Hassanien@science.sohag.edu.eg Esraahassaneen24@gmail.com www.linkedin.com/in/esraa-hassaneen-a739b51bb/	Sedimentary rocks	

Theses produced by the Lab		
M Sc Thesis		
#	Title	Approval date
1	Hassan, M. A.: Sedimentological and Mineralogical studies on the Neogene clastics of the Wadi Abu Ghusun-Wadi Lahmi area, Red Sea, Egypt. M. Sc. Thesis, Fac. of Science Gelo. Dep. South Valley Univ.	(1995)
2	Abu Seif, E. S.: Sedimentological and Mineralogical studies on the Neogene clastics of the Wadi umm Ghaig-Wadi Mobarak area, Red Sea, Egypt. M. Sc. Thesis, Fac. of Science Gelo. Dep. South Valley Univ.	(1997)
3	Refaey, Y. B.: Mineralogical and Geotechnical Studies on the Weathered Zones of the Basement rocks of Aswan Area, Egypt. M. Sc. Thesis, Fac. of Science Gelo. Dep. Sohag Univ.	(2008)
4	El-Haddad , B.A.,: Evolution of the Geological history of the Egyptian Nile at Sohag area Using Sedimentological Studies and remote sensing techniques	(2010)
5	Soliman W.A: Mineralogy and industrial uses of clayey sediments in east of sohag, Egypt.	(2012)
6	Mahmood,K.,: Geotechnical study on the utilization of pleistocene sands as a construction material, sohag governorate, Upper Egypt	(2015)

7	Shehata, F. H. ,: Mechanical and Engineering Characteristics of Expansive Soil and foundations , Sohag Egypt: A case study of New Sohag (Al-Kawamil) -New Akhmim (Al-Kula).	(2017)
8	Hassanin, E :Sedimentological and mineralogical studies on the lower Eocene carbonate sediments in sohag area, Egypt.	(2021)
9	Bosy A. El-Haddad : EVOLUTION OF THE GEOLOGICAL HISTORY OF THE EGYPTIAN NILE AT SOHAG AREA USING SEDIMENTOLOGICAL STUDIES AND REMOTE SENSING TECHNIQUES	(2014)
10	Abdel Tawab, H.: Sedimentological and Sequence Stratigraphical Studies on Syn-Rift Miocene Sediments of the Area South of Qusier, Red Sea, Egypt	(2016)
Ph.D. Thesis		
1	Abu Seif, E. S.: Geological and Engineering properties of expansive soils of west El maawhoob area, Dakhala Oasis, Western Desert, Egypt. Ph. D. Thesis, Fac. of Science .Gelo. Dep. South Valley Univ.	(2005)
2	Refaey, Y. B.: Application of some clay deposits from Egypt in industrial uses and assessment of their adsorption characteristics	(2010)
3	El-Haddad , B.A.,,:Application of remote sensing and geographic information system in geological hazard assessment, Sohag – Red Sea sector, Egypt”	(2015)
4	Soliman W.A,: Mineralogical and microstructural characterization of selected egyptian shales as possible hosts for a nuclear waste repositories.	(2016)
5	Abd-Elshafi,A.:Nanocomposites Montmorillonite Clay For Efficient Analytical Determination And Removal Of Iron And Manganese From Drinking Water	2017

6	Abu Baker,M.,: Mineralogy and geochemistry of clayey deposits in Dabbabyia area. Luxor-Egypt.	(2018)
7	Ahmed, W.,: Geochemistry of zinc metal in some soils of Sohag Governorate, Egypt.	(2020)
8	Youssif , S.: GEOCHEMISTRY, GEOMINING AND ENVIRONMENTAL STUDIES ON GABAL AKHEIDER LIMESTONES AND WADI BADAA CLAYS FOR CEMENT INDUSTRY, AIN EL SUKHNA AREA, SOUTHWEST OF SUEZ, EGYPT	(2021)

Articles produced by the Lab members

#	Title
1	- Mansour, H. H., Philobos, E. R., and El-Shater, A., (1983): Some textural characteristics along the Red Sea coast of Egypt. <i>Oceanography and Fisheries. Inst. Bull., V.9, p. 20-25.</i>
2	- Philobos, E. R., Mansour, H. H., and El-Shater, A., (1983): Mineralogy of recent sediments along the Red Sea coast of Egypt. <i>Oceanography and Fisheries. Inst. Bull., V.9, p. 30-41.</i>
3	- Philobos, E. R., Kurweil, H., and El-Shater, A., (1987): Mineralogy and Sedimentology of Recent Sediments of the Egyptian Red Sea coastal area (abstract).
4	- El-Shater, A., and El-Haddad, A. (1988): Wave-generated structures and ancient wave conditions in the Neogene clastic sediments of the Red Sea coast, Egypt. <i>Sohag Pure& Appl. Sci. Bull. Fac. Sci. , Egypt., V.4, P.125-143.</i>
5	- El-Haddad, A and El-Shater, A., (1988): Sediment characteristics as a controlling factor of pollution of the groundwater from disposed wastes, Sohag , Egypt. <i>Bull. Fac. Sci. Assiut Uni., V.18, N.2-F, p.39-53.</i> <i>Sohag Pure& Appl. Sci. Bull. Fac. Sci. , Egypt., V.4, P.145-162</i>
6	- El-Shater, A., and El-Haddad, A. (1989): Grain-size parameters of insoluble residues in ancient mixed terrigenous carbonate sediments (Shagra Formation), Red Sea coast, Egypt. <i>Bull. Fac. Sci. Assiut Uni., V.18, N.2-F, p.39-53.</i> <i>Sohag Pure& Appl. Sci. Bull. Fac. Sci. , Egypt., V.4, P.125-143.</i>
7	- Tag, R. J., Abou Ouf, M., and El-Shater, A., (1990): Textural characteristics of coastal sediments between Wadi. Al-Fagh and Wadi. Al-Qunfidah, South eastern Red Sea. <i>Arab. Gulf. J. Sci. Res., V.8, P. 33-47</i>
8	- Tag, R. J., Abou Ouf, M., and El-Shater, A., (1990): Nature and occurrence of heavy minerals in

	the recent sediments of Al-Fagh-Al-Qunfidah coast of Saudi Arabian Red Sea. Indian. J. Mar.Sci. V.19, P.265-268.
9	- Abou Ouf , M., and El-Shater, A.,(1991): The relationship between the environmental conditions of the Jeddah coast,Red Sea and benthic foraminifera . J.K.A.U. Mar.Sci., V.2, P.49-64.
10	- Behairy, A.K.A., Durgaprassada Rao, N.V.N, and El-Shater, A.,(1991): A siliciclastic coastal sabkha, Red Sea, Saudi Arabia. J.K.A.U. Mar.Sci., V.4, P.65-77.
11	- Abou Ouf , M., and El-Shater, A.,(1992): Sedimentology and mineralogy of Jizan shelf sediments, Red Sea coast, Saudi Arabia. J.K.A.U. Mar.Sci., V.3, P.39-45.
12	- El-Shater,A., (1992): The occurrence and nature of unstable heavy minerals in Miocene, Pliocene, and Pleistocene sediments of the Red Sea coast, Egypt. Sohag Pure& Appl. Sci.Bull. Fac. Sci. , Egypt., V.8, P.277-294.
13	- Abou Ouf ,M., and El-Shater, A.,(1993): Black benthic foraminifera in carbonate facies of a coastal sabkha, Saudi Arabian Red Sea coast. J.K.A.U. Mar.Sci., V.4, P.133-141.
14	- El-Shater,A., (1994): Palygorskite in the coastal sabkha of the Red Sea coast, Saudi Arabia . <i>Bull.Fac. Sci. Assiut Uni.</i> , V.23, N.1, p.143-157
15	- El-Shater, A.and Abou Ouf, M.A,(1995): Beachrock in South Jeddah the Red Sea coast of Saudi Arabia. <i>JKAU: Mar .Sci.V.6, PP.53-65</i>
16	- Basaham,A. and El-Shater,A.(1996) : Textural and Mineralogical characteristics of the surficial sediments of Sharm Obhur, Red Sea coast of Saudi Arabia. <i>JKAU: Mar .Sci. V.6, PP.51-71</i>

17	-El-Shater,A., (1997): Nature and origin of hematite of the Oligocene red beds of the Abu Ghusha Formation, Red Sea coast, Egypt. Egyptian. <i>Mineralogist.</i> , V.9, P.107-132.
18	-EL-Shater,A,(1998): Clay mineralogy and geochemistry of the siliciclastic sediments associated with Abu Dabbab Evaporites, Quseir-Safaga district, Red Sea coast of Egypt. <i>Bull.Fac. Sci. Assiut Uni.</i> , V.27, N.2, p.95-120
19	-El-Shater,A.and Philobbos,E.R.,(1998): Clay mineral associations in the syn-refit sediments of the southern Egyptian Red Sea coastal areas: a tectono -sedimentary approach. <i>Egyptian Journal of Geology</i> ,v.42/2,pp.597-620.
20	-El-Shater A., (1999): Paleoclimatic interpretation of clay minerals in deep-sea cores from the Red Sea. <i>The first International Conference of the Geology of Africa, Assiut, Egypt</i> , V.1, P.161-183.
21	-El-Shater,A. and El-Haddad,A. (1999): The controls on the major and trace elements variation of shales, siltstones, and sandstones of Neogene, Red Sea coast region, Egypt. <i>The Fourth International Conference on Geochemistry, Alexandria, Egypt</i> , V.11, P.115-140.
22	-El-Shater, A., Mahran,T. M., Bekir, R.Kh., and Abu Seif, E.S.,(1999): Mineralogy of the Neogene clastics of Wadi Um Ghaig-Wadi Mobarak area, Red Sea coast, Egypt(<i>presented and discussed during the sessions of of the Geological Society of Egypt.</i>
23	- El- Shater, A. and El-Haddad ,A. (2000) : Mineral composition of the Cambrian-Cretaceous Nubian Series of Egypt: provenance, tectonic setting and climatological implications. <i>Bull.Fac. Sci. ElAzhar Uni.</i> ,V.1,pp.1-39 and to present and discuss during the sessions of the 12th Symposium of the Phanerozoic and development in Egypt
24	-El-Shater ,A. and El-Haddad ,A.(2003) Paleoenvironmental significance of clay mineral associations across the Cretaceous- Tertiary in Upper Egypt. The 10th Euroclay Meeting, Athens (

	Abstract)
25	- El-Haddad .A, El- Shater, A., Yousef,A. and Abdel-Mounem,A., (2005) :New occurrence of post-Eocene gravels, West of Sohag area : geological significance and its suitability for different applications. 4th international conference on the geology of Africa ,Assiut University.
26	- Mahran,T.M.; El-Shater,A.;Bekeir, R.; and. Abu Seif,E.S.A, (2006) :Sedimentology and Sequence stratigraphy of Oligocene–Middle Miocene sediments in the area south of Wadi Um Ghaig, Red Sea, Egypt: effect of eustasy and tectonics. The 44th annual meeting of the geological Society of Egypt , 19-20 December, Cairo.
27	- Abu Seif,E.S.A.; El-Shater ,A. El-Haddad .A and Refaey, Y., (2009) :Mineralogical and Geotechnical studies on the weathered zones of the basement rocks of Aswan Area, Egypt. 6th international conference on the geology of Africa ,Assiut University.
28	- El-Shater ,A. ;l-Sherif .M. El-Khashab, H.M. A., Abu Seif,E.S.A., (2010) : Geotechnical properties of expansive clay shales in Gharb Elmawhoob area, Dakhla Oasis, Western Desert, Egypt.(presented in 2010 Trilateral Meeting on Clays , Spain)
29	- EL-Sayed Sedek Abu Seif and El-Shater, A.A. (2010) : Engineering aspects and associated problems of flood plain deposits in Sohag Governorate, Upper Egypt. Journal of American Science;6(12):1614-1623].
30	- El-Shater, A.A. (2012) : Characterization of soil clay minerals of the River Nile sediments, Sohag region, Egypt : decomposition of x-ray diffraction patterns. (presented in 2012 the 6th Mid-European Clay Conference ,Prague, Republic of Czech) and in press Journal of Earth Science and Engineering (JEASE).

31	- Ahmed, A. A., Diab, M. Sh, Abu El Ella, S. M., El-shater, A. (2013): Urbanization, agriculture and degradation of groundwater quality: Case study of Nile Valley, Luxor, Egypt. International Conference on Water Resources and Environment, Istanbul – Turkey, 24th-28th of November.
32	- El-Haddad, B. A., Youssef, A. M., Mahran, T. M., & El-Shater, A., (2013): Material mapping in the western desert of Egypt using remote sensing and field investigation: a tool for managing urban development. The 7th Int. Conf. for Develop. and the Env . in the Arab world, March, 23-25, 2014. Pp 527-538
33	- El-Haddad, B. A., Youssef, A. M., Mahran, T. M., & El-Shater, A., (2013): Mapping of Pliocene-Pleistocene Rock Units Using Enhanced Thematic Mapper Plus ETM+: Case Study, Wadi Qasab Area, South East Sohag, Egypt: The Seventh International Conference on the Geology of Africa, Nov. 24-26, Assiut, Egypt.
34	- Mahran, T. M., El-Shater, A. Youssef, A.M & El-Haddad, B. A (2013): Facies analysis and tectonic-climatic controls of the development of Pre-Eonile and Eonile sediments of the Egyptian Nile west of Sohag. The 7th international conference on the geology of Africa, Assiut, Egypt,(Abstract).
35	- Refaey, Y., Jansen, B., El-Shater, A., El-Haddad, A., Kalbitz, K. (2014): The role of dissolved organic matter in adsorbing heavy metals in clay-rich soils. Vadose Zone J., Vol. 13 No. 7.
36	- El.Shater,A. El-haddad,A., El-Attar.A and Soliman,W..(2015): Bentonite in the Paleonile sediments of Sohag region, Egypt. The Second International Conference on New Horizons in Basic and Applied Science, Hurghada, Egypt
37	- Refaey, Y., Jansen, B., El-Shater, A., El-Haddad, A., Kalbitz, K. (2015): Clay minerals of

	Pliocene deposits and their potential use for the purification of polluted wastewater in the Sohag area, Egypt. Geoderma Regional 5, 215-225.
38	-El-Haddad, B. A., Youssef, A. M., El-Khshab M. H., & El-Shater, A., (2015): Karst hazards around Sohag city, Egypt: distribution, investigation, causes and impacts” : The Eighth International Conference on the Geology of Africa, Nov. 24-26, Assiut, Egypt.
39	-Refaey, Y., Jansen, B., Parsons, J., de Voogt, P., Bagnis, S., Markus, A., El-Shater, A., El-Haddad, A., Kalbitz, K. (2016): Effects of clay minerals, hydroxides, and timing of dissolved organic matter addition on the competitive sorption of Copper, Nickel and Zinc: A column experiment. Revised version: Journal of Environmental Management (ID: JEMA-D-16-02274).
40-	Refaey, Y., Jansen, B., de Voogt, P., Parsons, J.B, El-Shater, A., El-Haddad, A., Kalbitz, K. (2017):. The influence of organo-metal interactions on regeneration of exhausted sorbent materials loaded with heavy metals. Volume 27, Issue 3, Pages 579-587.
41	-El.Shater,A. Abu Seif,E.SA and Refaey, Y.,(2017): Crystallographic and morphological characteristics of natural kaolins, Aswan Region, Upper Egypt.J.African Sciences , (in press)
42	-El-Haddad1,B.A., Youssef, A. M , El-Shater A, and El-Khashab, M H. (2017): Landslide mechanisms along carbonate slopes using remote sensing techniques coupled with field and laboratory investigations: A case Study of highways surround Sohag - Assiut area, Egypt. Accepted to publish in annals of the Ninth International Conference on the Geology of Africa 7-9 november 2017.
43	- Ahmed M. Youssef, Abdel-Hamid El-ShaterMohamed H. El-Khashab, Bosy A. El-Haddad(2017): Karst Induced Geo-hazards in Egypt: Case Study Slope Stability Problems Along Some Selected Desert Highways. GeoMEast Conference "Sustainable Civil Infrastructures: Innovative Infrastructure Geotechnology"Volume: Engineering Geology and Geological Engineering for Sustainable Use of the Earth's Resources, Urbanization and Infrastructure Protection from Geohazards, Sustainable Civil Infrastructures, DOI: 10.1007/978-3-319-61648-3_11

44	- Ahmed M. Youssef, Abdel-Hamid El-Shater, Mohamed H. El-Khashab, Bosy A. El-Haddad(2017): Coupling of field investigations and remote sensing data for karst hazards in Egypt: case study around the Sohag City.Arabian Journal of Geosciences 10(11). DOI: 10.1007/s12517-017-3029-6
45	- Bosy A. El-Haddad, Dr. Ahmed M. Youssef, Abdel-Hamid El-Shater, Mohamed H. El-Khashab (2017): Slope Stability Hazard Assessment Using 3D Remote Sensing and Field Sketching Techniques Along Sohag-Red Sea-Cairo Highway, Egypt.Conference of World Landslide Forum (WLF4): Advancing Culture of Living with LandslidesAt: Ljubljana, SloveniaVolume: Volume (2) Set (1) Advances in Landslide Science. DOI: 10.1007/978-3-319-53498-5_47
46	- Abd-Elkareem, E., Asran, M. & El Shater, A.(2017): damage blocks granite OF Philip Arrhidaeus Compartment and its source and treatment, karnak, Egypt. Egyptian Journal of Archaeological and Restoration Studies. Volume 7, Issue 2, December - 2017: pp: 111-121
47	- Abu Seif,S.S., Bahabri,A. A. and El-Shater, A. (2018) : Geotechnical properties of Precambrian carbonate, Saudi ArabiaArabian Journal of Geosciences 11:500
48	- El.Shater,A. El-haddad,A., El-Attar.A and Soliman,W.. (2018): Characterisation of a Pliocene Egyptian bentonite from Sohag region for pharmaceutical use .Arabian Journal of Geosciences ,11:385.
49	- Elshater,A. Khashab,MA. El-Sherif,MA. and Abu Seif,ES. (2019): Geological and Engineering Characteristics of Expansive Soils in Western Desert, Egypt.Civil.Eng.Res.J.;7(2):555707.Doi:10.19080/CERJ.2019.07.555707
50	- . El-Haddad, B A., Youssef, A.M. El-Shater,A., and El-Khashab,M.H. (2019): Slope instability mechanisms in karst rocks and their impact on sustainable development, Egypt Conference of the

	Arabian Journal of Geosciences – CAJG.
51	- El-Haddad, B A., Youssef, A.M. El-Shater,A., and El-Khashab,M.H. (2019): Geohazards related to karst and slope instability along the safaga – gabal el-zeit red sea coast, egypt Tenth International Conference on the Geology of Africa (ICGA 2019)
52	- Hakami Bader A.; Abu Seif S S ; El-Shater A. (2020): Environmental pollution evaluation of Al-Mesk Lake,Jeddah,SaudiArabia. Natural Hazards, https://doi.org/10.1007/s11069-020-03880-6
53	- Soliman, W., El-Shater, A., Elattaar, A. and Hassan, A. M. (2020): Physico-chemical and mineralogical characterization of Esna Shale, Farafra Oasis, Western Desert, Egypt.5th Scientific Conference for Young Researchers (SCYR), Sohag University, Egypt (abstract).
54	- El-Shater, A., Hassan, A. M., Elattaar, A. and Soliman, W. (2020): Contribution to the mineralogy of Quseir Formation, Kharga Oasis, Western Desert, Egypt. Annals Geol. Surv. Egypt. v. 37 VII, pp 118 - 127.
55	- El-Shater,A., Mahran,T.M.,Abu Seif,S.S and Mahmoud,K. (2020): Geotechnical study on the utilization of Pleistocene Sands in Sohag Basin (Upper Egypt) as a construction raw material. Environmental Earth Sciences 79:534 https://doi.org/10.1007/s12665-020-09302-x
56	- El-Haddad, B. A., Youssef, A. M., Pourghasemi, H. R., Pradhan, B., El-Shater, A. H., & El-Khashab, M. H. (2021). Flood susceptibility prediction using four machine learning techniques and comparison of their performance at Wadi Qena Basin, Egypt. Natural Hazards, 105, p.83–114.
57	- El-Shater, A.. Mansour, A.M., Osman, M..R, Abd El Ghany A A. andAbd El-Samee, A.(2021): Evolution and significance of clay minerals in the Esna Shale Formation at Dababiya area,

	Luxor, Egypt. Egyptian Journal of Petroleum 30 (2021) 9–16
58	.Abd-elshafi, A., Amer, A. A, El-shater,A and Elrouby ,M. (2022): Adsorption of ferrous ions on the egyptian montmorillonite clay and its mercaptopropyl trimethoxysilane modified forms. 7th Scientific Conference for Young Researchers (SCYR), Sohag University, Egypt (abstract).
59	-Abdelaal, W. A. A.,El-Gendi,S.A, Negim,O.E. and El-Shater,A.(2022): Mixed-layer kaolinite-smectite minerals in the River Nile soils of Sohag Governorate, Egypt. 7th Scientific Conference for Young Researchers (SCYR), Sohag University, Egypt (abstract).
60	- BAKIR, R. KH. AND HASSAN, A. M. (1996): Neogene clayey deposits. Minerals and sedimentary implications, Red Sea, Egypt. Jour. of Sedimentological Society of Egypt. Vol. 4, pp. 63-75.
61	- MAHRAN, T. M., PHILOBBOS, E. R., BAKIR, R. KH. AND HASSAN, A. M. (1999): Facies, textural and mineralogical characteristics of syn-rift Oligocene- Neogene siliciclastic sediments south of Wadi Abu-Ghusun area, Red Sea, Egypt. Implications to paleoclimate and provenance. Jour. of Geological Society of Egypt. Vol. 43 (2), pp. 395-434.
62	- MOSTAFA, A. AND HASSAN, A. M. (2003): Lithofacies and depositional history of the Cenomanian- Turonian sequence of Gabal El-Zeit area, Gulf of Suez, Egypt. Third International Conference on the Geology of Africa, vol. 1, pp. 467-481.
63	- OMER, A. A. AND HASSAN, A. M. (2004): Geochemistry and mineral composition of the Upper Cretaceous siliciclastics (Nubia Group), Northeast of Aswan; Implications for provenance and weathering. Annals of the Geological Survey of Egypt, Vol. XXVI, pp. 273-294.
64	- HASSAN, A. M. AND MOSTAFA, A. (2004): Sequence stratigraphy and cyclicity of some Mesozoic-Cenozoic successions from the Gulf of Suez and north Western Desert, Egypt. Journal of the Phanerozoic and Development in Egypt, pp. 27-58.

65	- KHALIFA, M. A., HASSAN, A. M. AND MOSTAFA, A. A. (2005): Facies and depositional model of the Lower Eocene Farafra Limestone, Farafra Oasis, Western Desert, Egypt. 4th International Conference on the Geology of Africa, Vol. 1, pp. 539- 569.
66	- HASSAN, A. M. (2007): Facies analysis, diagenetic aspects and depositional environment of the Cenomanian Raha Formation at Southwestern Sinai, Egypt. 5th International Conference on the Geology of Africa.
67	- MAHRAN, T. M., PHILOBBOS, EL-HADDAD, A. A., AND HASSAN, A. M. (2007): The impact of rift tectonics, paleoclimate and provenance on textural and mineralogical characteristics of syn-rift Miocene sediments of Sidri- Feiran area, Southwestern Sinai, Egypt. Assiut University Jour. of Geology, Vol. 36(2), pp. 1-53.
68	- MAHRAN, T. M., PHILOBBOS, EL-HADDAD, A. A., AND HASSAN, A. M. (2007): Facies and sequence stratigraphy of the syn-rift Miocene mixed carbonate siliciclastic sediments of Sidri- Feiran area, Southwestern Sinai, Egypt. Bull. Fac. Sci. Zagazig University.
69	- HASSAN, A. M. (2008): Origin of dolostones of the Upper Cretaceous Galala and Adabiya Formations at Gabal Ataqa and Gabal Shabraweet, Northeastern Desert, Egypt. Bulletin of Faculty of Science, Al-Azhar University. Vol. 19, No. 1, pp. 1-30.
70	- YOUSSEF, A. M., BISWAJEET PARDHAN AND HASSAN, A. M. (2011): Flash flood risk estimation along the St. Katherine road, Southern Sinai, based morphometry and satellite imagery. Environmental Earth Sciences. Volume 62, Pages 611-623
71	- YOUSSEF, A. M., HASSAN, A. M. AND EL-HADDAD, A. A. (2009): Mapping of prerift-synrift sedimentary units using enhanced thematic mapper plus (etm+): Sidri-Feiran area, Southwestern Sinai Peninsula, Egypt. Journal of Indian Soc. Remote Sensing (September, 2009), Vol. 37, pp. 213-221.

72	- YOUSSEF, A. M., MAERZ, M. H. AND HASSAN, A. M. (2009): Remote sensing applications to geological problems in Egypt: Case study, slope instability investigation, Sharm El-Sheikh- Ras Nasrani area, Southern Sinai. Journal of Landslides Springer-Japan, Vol. 6, pp. 353- 360 (December 2009).
73	- MAHRAN, T. M. AND HASSAN, A. M. (2010): Calcretes and palustrine facies of Plio-Pleistocene Issawia and Armant formations, Sohag basin: A response to clastic sediment influx and paleoclimatic conditions: Sinai Inter. Confe. for Geology and Development (Abstract), 6-8 october 2010.
74	- PHILOBBOS, E. R., MAHRAN, T. M. AND HASSAN, A. M. (2010): The morphology changes in the Egyptian Red Sea Coastline: Implications for tectonics, climate and sea level controls. Sinai Inter. Confer. for Geology and Development (abstract), 6-8 October 2010.
75	- Hassan, A. M. (2011): Dolomitization models for the Neogene sediments in the northwestern Red Sea coast and Gulf of Suez, Egypt. Effects of tectonic, eustasy and paleoclimate. Annals of the Geological Survey of Egypt, Vol. XXXII.pp. 614-642.
76	- Hassan, A. M., Mahran, T. M. and El-Haddad, B. A. (2013): Sedimentology and factors controlling sequence development of Post-Eocene breccia deposits of Issawia Formation, eastern flank of Sohag basin, Egypt. 7th International Conference on the Geology of Africa (Abstract), 24 – 26 November, 2013.
77	- Hassan, A. M. (in press): Clay mineralogy, chemistry and diagenetic significance of some Mesozoic- Lower Tertiary shale from the northwestern Desert, Egypt.

78	W. Soliman, A. El-Shater, A. Elattaar and A. Hassan (2020): Physico-chemical and mineralogical characterization of Esna Shale, Farafra Oasis, Western Desert, Egypt. 5th Scientific Conference for Young Researchers (SCYR), Sohag University, Egypt (abstract).
79	El-Shater, A., Hassan, A. M., Elattaar, A. and Soliman, W. (2020): Contribution to the mineralogy of Quseir Formation, Kharga Oasis, Western Desert, Egypt. Annals Geol. Surv. Egypt. v. 37 VII, pp 118 - 127.
80	El-Shater, A., A.Elhaddad , A. Elattaar , M. Abugharbia & W. Soliman (2018): Characterisation of the Egyptian Pliocene bentonite from the Sohag region for pharmaceutical use. Arabian Journal of Geosciences, 11: 385, 12pp.
81	El.Shater,A. El-Haddad,A., Elattaar.A and Soliman,W..(2015): Bentonite in the Paleonile sediments of Sohag region, Egypt. The Second International Conference on New Horizons in Basic and Applied Science, Hurghada, Egypt
82	Bekir, R. K. and Mahran, T.M. (1987): Iron-Manganese mineralization in Miocene sediments at southern eastern desert, Egypt. Sohag Pure& App. Sci. Bull. Fac. Sci., Egypt, vol. 3, pp. 256-287.
83	Philobbos, E.R., El-Haddad, A.A., Luger, P., Bekir, R.K. and Mahran, T.M. (1993): Syn-rift sedimentation around fault-blocks in the Abu Ghusun-Wadi El Gemal area, Red Sea, Egypt. Geol. Soc. Egypt., Spec. Publ. No. 1, pp. 115-141.
84	Khalifa, H., El Haddad, A.A. and Mahran, T.M. (1988): The problem of Late Miocene-Early Pliocene boundary along the Red Sea coastal area between Quseir and Marsa Alam, Egypt. Bull. Fac. Sci., Assiut University, vo. 17, No. 2-F, pp. 137-156.
85	Philobbos, E.R. , El-Haddad, A.A., and Mahran, T.M. (1989): Sedimentology of syn-rift Upper Miocene (?) -Pliocene sediments of the Red Sea area: a model from the environs of Marsa Alam. Egypt. J.Geol., vol. 33, No. 1-2, pp. 201-227.
86	El-Haddad, A.A., Philobbos, E.R. and Mahran, T.M. (1993): Facies and sedimentary development of dominanatly siliciclastic Late Neogene sediments, Hamata area, Red Sea coast, Egypt. Geol. Soc. Egypt., Spec. Publ. No. 1, pp. 253-276.

87	Mahran, T. M. (1991): Origin of post-Eocene Red Breccias (Brocatellei) around Sohag area, Nile Valley, Egypt. The twenty ninth annual meeting of the Geological Society of Egypt, 9-14 November, Cairo (Abstract).
88	Bekir, R. and Mahran, T.M. (1992): Mineralogical and textural characteristics of Pliocene-Quaternary Nile sediments, Wadi Qasab area, Sohag, Egypt. Sohag Pure& App. Sci. Sohag, Egypt, vol. 3, pp. 256-287.
89	Mahran, T. M. (1993): Sedimentology of Upper Pliocene-Pleistocene sediments of the Nile Valley area: a model around Aulad Toq Sharq environs, SE Sohag, Egypt. Bull. Fac. Sci., Assiut University, vol. 22, No. 2-F, pp. 1-25.
90	Mahran, T. M. (1994): Facies and sedimentary evolution of syn-rift Middle Miocene-Pliocene sediments in Wadi Quih-Wadi Um Aish area, Red Sea Egypt. Egyptian Jounal of Geology, vol. 38, No. 2, pp. 435-453.
91	Mahran, T. M. (1994): Sedimentology of Proto-rift Oligocene - Lower Miocene sediments in the initiation grabens of the Red Sea area, Egypt. The 2th international conference of the Geology of the Arab World, 22-26 January, Cairo University, Egypt.
92	Mahran, T. M. (1994): Evolution of Quaternary rift sediments in relation to the tectonic framework of the Egyptian Red Sea coastal area. The 7th Symposium on the Quaternary and development in Egypt. El Mansoura 24 March, University of El Mansoura, Egypt (Accepted for publication in the Egyptian J. Geology, 1995).
93	Mahran, T. M. (1994): Some textural characteristics of syn-rift Neogene and Quaternary siliciclastics sediments near Quseir area, Red Sea, Egypt. Sohag Pure& App. Sci. Bull. Fac. Sci. Egypt. Vol. 10, pp.317-345.
94	Mahran, T. M. (1995): Mixed Late Oligocene -Middle Miocene siliciclastics-carbonates in block-faulted regions : a model from Wadi Wizr-Wadi El Gemal area, Red Sea coastal zone, Egypt. Africa Geoscience Review, vol. 2, No. 1, pp. 77-90.
95	Mahran, T. M. (1995): Sedimentological development of the Upper Pliocene-Pleistocene sediments in the areas of El Salamony and El-Sawamha Sharq, NE Sohag, Nile Valley, Egypt. Qatar Univ. Sci. J., vol. 15, No. 1, pp. 183-194.

96	Mahran, T. M. (1997): Cyclicity in Nakheil formation (Oligocene), West of Quseir, Red Sea, Egypt. Egyptian Journal of Geology. Vol. 42, No. 2A, pp. 309-546.
97	Mahran, T. M. (1999): Late Oligocene lacustrine deposition of the Sodmin Formation, Abu Hammad Basin, Red Sea. Egypt: sedimentology and factors controlling palustrine carbonates. Journal of Africal Earth Science, vol. 29, No.3, pp. 567-592.
98	Mahran, T. M. (2000): Cyclicity and sequence stratigraphy of syn-rift Late Neogene mixed carbonates-siliciclastics of the area between Wadi Zug El Bohar and Wadi Dabr, Red Sea, Egypt. Egyptian Journal of Geology, vol. 44, No. 2, pp. 237-275.
99	Mahran, T. M. El Haddad, A. A. and Hassan, A. M. (2001): The impact of rift tectonics, paleoclimate and provenance on textural and mineralogical characteristics of syn-rift Miocene sediments of Sidri-Feiran area, southwestern Sinai, Egypt. The thirty ninth annual meeting of the Geological Society of Egypt, 3-4 November, Cairo. Acceptedc for publication in the Bull. Fac. Sci., Assiut University (in press), 2007.
100	Mahran, T. M., El Haddad, A. A., Philobbos, E.R. and Hassan, A. (2002): Facies and sequence stratigraphy of the syn-rift Miocene mixed carbonate-siliciclastic sediments of Sidri-Feiran area, southwestern Sinai, Egypt. The fourty annual meeting of the Geological Society of Egypt, 14-19 December (2002), Cairo (Abstract). Accepted for publication in the Bull. Fac. Sci., El Mounofeia University (in press), (2007).
101	Mahran, T. M. (2006): Plio-Quaternary continental sedimentation in El Qaa and Sidri extensional basins, southwest Sinai, Egypt: Tectonic and Paleoclimatic controls. Egyptian Journal of Geology, vol. 50, pp. 83-113.
102	Mahran, T. M., El Shater, A.A. and Sadeik, S. (2006): Sedimentology and sequence stratigraphy of Oligocene-Miocene sediments in the area south of Wadi Um Gheig, Red Sea Egypt. Effects of eustasy and tectonics. The fourty fourth annual meeting of the Geological Society of Egypt, 19-20 December, Cairo (Abstract).
103	Mahran, T. M. (2007): Facies, sequence stratigraphy and factors controlling Plio-Pleistocene fluvio-lacustrine sedimentation of the area around Sohag, Nile Valley, Egypt. The fourty fourth annual meeting of the Geological Society of Egypt, 19-20 December, Cairo (Abstract).

104	Mahran T.M. and Hassan A.M. (2010): Plio-Pleistocene calcretes and palustrine facies of Sohag area, Nile basin: a response to local subsidence, clastic sediment influx and paleoclimatic conditions. Presented in Sinai International Conference for Geology and development, 6th -8th October. (Abstract). Accepted in the Annals of Geological survey of Egypt.
105	Mahran, T. El -Shater, A., Yousef, A. and El -Haddad, B.(2013) Facies changes and tectonic-climatic controls on the development of Late Oligocene-Miocene sediments (Pre-Eonile and Eonile phases) of the Egyptian Nile west of Sohag. The 7 th International conference on the Geology of Africa (abstract)
106	Mahran, T., Hassan, A., Moustafa, A., and Abdel Tawab, H. (2014): Normal faulting as a control on the stratigraphic development of syn-rift lacustrine/shallow marine sequences: The Nakheil and Ranga formations, Hamadat and Zug El bohar Half graben basins, South Quseir, Red Sea, The 51 th annual meeting of the Geological society of Egypt, 22-23P.
107	Mahran, T., Hassan, A. (2017): Geomorphic evolution and karst landforms of landforms of the Eocene carbonate plateau, west of the Nile Valley (Sohag) : implications for geohazards and impacts. The third international conference on new horizons in basic and applied science (abstract), p. 11-12.
108	Ayman A, Abdelkareem, Asran M and Tawfiq M (2017): Geomorphic and lithologic characteristics of Wadi Feiran basin, southern Sinai, Egypt, using remote sensing and field investigations. J. Earth Syst. Sci. 126:85
109	Mahran, T. and Hassan, A, Moustafa, A. and Abdel Tawab, H. (2017): Facies architecture and sequence stratigraphy of Early Syn-rift siliciclastic deposits in Hamadat half-graben basin, south Quaeir, Egypt, The third international conference on new horizons in basic and applied science (abstract)
110	Redwan, M., Mahran, T.M., Mohamed, M.t., Mohamed, Y.S. (2020): Flood hazard assessment and characteristics of Cement Kiln Dust in Ain Sukhna industrial area, North-western part of the Gulf of Suez, Egypt. Environmental Progress & Sustainable Energy.
111	Redwan, M., Mahran, T.M., Mohamed, M.t., Mohamed, Y.S. (2020): DETERMINATION OF BENCH BLAST DESIGN PARAMETERS FOR LIMESTONE QUARRY AT GABLE OKHEIDER, AL AIN EL SUKHNA – WEST OF GULF OF SUEZ, EGYPT, Journal of engineering

	sciences, P 54-64.
112	Mahran, T.; Hassan, A. (2019): Alluvial karstification and paleodoline development in Eocene limestones, a case study from west Sohag City, Egypt: implications for causes and impacts. <i>Arabian Journal of Geosciences</i> , 12(7), 240–.
113	Mahran, T., Hassan, A and Yousef R. (2022): Palustrine sedimentation in an episodically early syn rift subsiding subbasin: The Late Oligocene Sodmin Formation, Northern Duwi subbasin, Northwest Quseir, Red Sea, The Seventh Scientific conference for Young Researchers (SCYR 7), “The second international” (Abstract).
114	El-Sayed Sedek Abu Seif (2007): Engineering geology of Al-Kawser City, NE Sohag Governorate, Egypt. The 5 th International Conference on the Geology of Africa, Assiut-Egypt. 15-28
116	El-Sayed Sedek Abu Seif and El-Sharif M. Abd Al-Aziz (2008): Geotechnical Factors affecting undrained shear strength of Quseir Shale in Dakhla Oasis, Western Desert, Egypt. <i>Bull. Fac. Eng. Assiut Univ. Assiut Egypt</i> . 36 (1), 131-145
117	El-Sayed Sedek Abu Seif (2013): Assessing the engineering properties of concrete made with fine dune sands: an experimental study. <i>Arab J Geosci</i> , 6:857–863.
118	Alqahtani, M. B. and El-Sayed Sedek Abu Seif (2013): Effect of animal borings on geotechnical properties of coralline limestone in NW Jeddah City, Red Sea Coast, Saudi Arabia. <i>Arab J Geosci</i> , 6:4973–4980.
119	El-Sayed Sedek Abu Seif (2013): Gemechanical evaluation of Pliocene natural aggregates as pavement. <i>Arabian Journal of Geosciences</i> (DOI 10.1007/s12517-013-0890-9)
120	Alqahtani, M. B. and El-Sayed Sedek Abu Seif (2013): Correlations between petrography and some engineering properties of coralline limestone: a case study along Red Sea Coast, Saudi Arabia, <i>JAKU: Earth Sci.</i> , 24 (1), 99-114
121	El-Sayed Sedek Abu Seif (2013): Performance of Cement Mortar Made with Fine Aggregates of Dune Sand, Kharga Oasis, Western Desert, Egypt: An Experimental Study. <i>Jordan Journal of Civil Engineering</i> , 7 (3), 270-284
122	Ali M. A. Abd-Allah, El-Sawy E.K., El-Sayed Sedek Abu Seif, Abdelhamid El-Fakharani and Mohammed Amin M. Sharaf (2013): Rock slope stability and design in Arafat–Muzdalifa area,

	Saudi Arabia Arabian Journal of Geosciences (<i>available online</i> DOI 10.1007/s12517-013-1030-2)
123	El-Sayed Sedek Abu Seif (2014): Geotechnical characteristics of anhydrite/gypsum transformation of Middle Miocene Evaporite, Red Sea Egypt. Arab J Sci Eng, 39:247–260.
124	Hakami B.A. and El-Sayed Sedek Abu Seif (2014): Geo-Environmental Assessment of Hazardous Effects of Disposal Wastewater, Jeddah, Red Sea Coast, Saudi Arabia. International Journal of Innovative Research & Development, 3 (4), 170-179.
125	Hakami B.A. and El-Sayed Sedek Abu Seif (2015): Household Solid Waste Composition and Management in Jeddah City, Saudi Arabia: A planning model. International Research Journal of Environment Sciences, 4 (1), 1-10
126	El-Sayed Sedek Abu Seif (2015): Efficiency of quicklime in reducing the swelling potential of pulverized expansive shale, Northern Jeddah, Saudi Arabia. Bull Eng Geol Environ, 74:637–650. DOI 10.1007/s10064-014-0658-9
127	El-Sayed Sedek Abu Seif (2015): Geotechnical approach to evaluate natural fine aggregates concrete strength, Sohag Governorate, Upper Egypt. Arab J Geosci, 8:7565–7575. DOI 10.1007/s12517-014-1705-3
128	El-Sayed Sedek Abu Seif (2015): Geological evolution of Nile Valley, west Sohag, Upper Egypt: a geotechnical perception. Arab J Geosci, 8:11049–11072. DOI 10.1007/s12517-015-1966-5
129	El-Sayed Sedek Abu Seif (2016): Evaluation of geotechnical properties of Cretaceous Sandstone, Western Desert, Egypt. Arab J Geosci, 9: 299. DOI 10.1007/s12517-016-2317-x
130	El-Sayed Sedek Abu Seif, Abdullah R. Sonbul, Bader Abdo Hasan Hakami and El-Sawy, E.K. (2016): Experimental study on the utilization of dune sands as a construction material in the area between Jeddah and Mecca, Western Saudi Arabia. Bull Eng Geol Environ, 75:1007–1022. DOI 10.1007/s10064-016-0855-9
131	El-Sayed Sedek Abu Seif (2017): Geotechnical hazardous effects of municipal wastewater on plasticity and swelling potentiality of clayey soils in Upper Egypt. International Journal of Geo-Engineering, 8:1. DOI 10.1186/s40703-016-0038-3
132	El-Sayed Sedek Abu Seif and Abdullah R. Sonbul (2017): Engineering properties of concrete made with crushed aggregates of diorite, Jeddah, Saudi Arabia. Acta Montanistica Slovaca, 22 (3),

	225-237
134	El-Sayed Sedek Abu Seif and Mohamed H. El-Khashab (2019): Desertification risk assessment of sand dunes in Middle Egypt: a geotechnical environmental study. Arabian Journal for Science and Engineering. 44:357–375, (DOI: 10.1007/s13369-018-3343-7).
134	Bader Abdo Hasan Hakami and El-Sayed Sedek Abu Seif (2019): Expansive potentiality of sabkha soils of Rabigh Lagoon, Saudi Arabia: a case study. Arab J Geosci, DOI: 10.1007/s12517-019-4271-x
135	Bader Abdo Hasan Hakami and El-Sayed Sedek Abu Seif (2019): Geotechnical aspects and associated problems of Al-Shuaiba Lagoon soil, Red Sea Coast, Saudi Arabia. Environmental Earth Sciences. DOI: 10.1007/s12665-019-8223-2
136	El-Sayed Sedek Abu Seif and Abdullah R. Sonbul (2019): Geotechnical performance of sandy bricks made with fine aggregates of sand dunes, Saudi Arabia. Arabian Journal of Geosciences, DOI: 10.1007/s12517-019-4345-9
137	Amar A. Amin and El-Sayed Sedek Abu Seif (2019): Environmental hazards of sand dunes, South Jeddah, Saudi Arabia: an assessment and mitigation geotechnical study. Earth Systems and Environment. DOI: 10.1007/s41748-019-00095-z
138	El-Sayed Sedek Abu Seif and Abdulelah A. Bahabri (2019): Rockfall hazards assessment along the Aswan–Cairo highway, Sohag Governorate, Upper Egypt. Natural Hazards, 99, 991–1005.
139	Gamal M.A. Mahran, Abdel-Nasser M. Omran, and El-Sayed Sedek Abu Seif (2020): The Formation Mechanism and characterization of Al-Si Master Alloys from sodium Fluosilicate. journal Material Science (Medžiagotyra), 26(2), 185-191

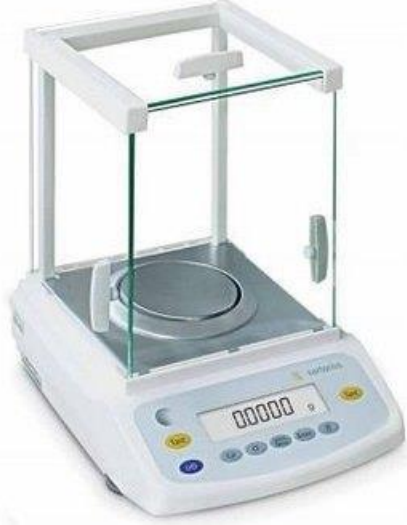


حاصلة على شهادة الاعتماد من الهيئة القومية
لضمان جودة التعليم والاعتماد في 2012/7/12م



Lab instruments						
#	Device	Quantity	Quality		Need maintenance	malfunction
			Good	Poor		
1	Desk top Computer	2	✓	✓		
2	Sensitive scale	2	✓			
3	Centrifuges	2	✓			
4	Burning furnace	1		✓		
5	drying oven	1	✓			
6	Incubation	1	✓			
7	cylinder	1	✓			
8	audiometer	1	✓			
9	manual scales	1	✓			
10	Distillation machine	1	✓			
11	Water pass	1	✓			
12	Separation funnels	3	✓			
13	Refrigerator	1		✓		
14	Sand cone device	1	✓			
15	Electric vibrators	1	✓			
16	plasticity and fluidity devices	1	✓			
17	Ultrasonic	1	✓			
18	Ph meter	1		✓		
19	Marsh funnel	1	✓			
20	stainless steel mixer	1	✓			
21	manual mill	1	✓			

Instruments Description

Device name  Desk top Computer	Device image حاصلة على شهادة الاعتماد الأكاديمي لضمان جودة	Description /use Through software we can: • Enhance image resolutions. • Analyzing specimen images. • Make statistical analyses. • Write & read scientific articles. • Prepare art-drawings.
		
Digital balance		Measurement of exact volumes of soil samples



حاصلة على شهادة الاعتماد من الهيئة القومية
لضمان جودة التعليم والاعتماد في 2012/7/12م

Centrifuges



Separation of fine
components into layers
according to size

Burning furnace



Burning samples to
determine their
suitability for use



كلية العلوم
Faculty of Science

حاصلة على شهادة الاعتماد من الهيئة القومية
لضمان جودة التعليم والاعتماد في 2012/7/12م



جامعة أسيوط
Assiut University

drying oven



Determination
moisture content of
samples

Incubation



for preserving samples 1
Keeping samples at a
constant temperature

Cylinder



Separating the fine
components less than 4
microns in size



حاصلة على شهادة الاعتماد من الهيئة القومية
لضمان جودة التعليم والاعتماد في 2012/7/12م



Oedometer Apparatus



Swelling pressure and
swelling percent
determination of fine-
grained Soils
□ Soil Settlement of fine-
grained Soils

manual scales



measuring different sizes



حاصلة على شهادة الاعتماد من الهيئة القومية
لضمان جودة التعليم والاعتماد في 2012/7/12م



Distillation machine



water distillation

Water pass



**for evaporation and
concentration of samples**



حاصلة على شهادة الاعتماد من الهيئة القومية
لضمان جودة التعليم والاعتماد في 2012/7/12م



Separation funnels



Separation of heavy metals

Refrigerator



Preservation of different samples



حاصلة على شهادة الاعتماد من الهيئة القومية
لضمان جودة التعليم والاعتماد في 2012/7/12م



Sand cone device



Determination of sand density

Electric vibrators (shaker)



Separating soil samples into their different sizes



حاصلة على شهادة الاعتماد من الهيئة القومية
لضمان جودة التعليم والاعتماد في 2012/7/12م



Casagrande Apparatus



measuring the plasticity
and fluidity of samples

Ultrasonic



Separation of fine
samples



حاصلة على شهادة الاعتماد من الهيئة القومية
لضمان جودة التعليم والاعتماد في 2012/7/12م



Ph meter



pH measurement
of samples

Marsh funnel



Viscosity measurement
of samples



حاصلة على شهادة الاعتماد من الهيئة القومية
لضمان جودة التعليم والاعتماد في 2012/7/12م



stainless steel mixer			Distribution of different sample sizes by dispersion
manual mill			for grinding samples

Ev
alu
ate
the
fulf
ill
me
nt
of
lab
to
ap
pro
pri
ate
ne
ss

of areas, building installations, facilities and human resources standards

Areas of assessment		Indicators	Yes	Somewhat	No
Floor area and capacity	1	Adequacy of the total capacity of the lab for the number of researcher (1).	✓		
Windows and doors	2	Availability of windows for adequate ventilations.	✓		
	3	Ease of use of windows.	✓		
	4	There are two exits (doors) at least (2).			✓
	5	There are signs to locate directions of emergency exits			✓
Equipment	6	Appropriate temperature during the lectures (3).	✓		
	7	Availability of good ventilation (4).	✓		
	8	The existence of adequate lighting (4).	✓		
	9	Lab is connected to the Internet	✓		
	10	The existence of directions inside the Lab showing entrances and emergency exits.			✓
Security and Safety	11	Existence of firefighting equipment near the hall (5).			✓
	12	Cleanliness of the room.	✓		

1. Minimum area: 1m² for each person.
2. Door's characteristics: Consists of one movable piece - opening to the inside.
3. The appropriate temperature is 18-25 °C in winter and 28°C in summer due to air-condition use.
4. Providing adequate lighting and good ventilation: windows area 10-15% of the floor area
5. Security and safety requirements: evacuation plan / evacuation responsible person/ fire distinguishers / bucket of sand / water source / good condition extinguish hoses / alarm system against fire).



حاصلة على شهادة الاعتماد من الهيئة القومية
لضمان جودة التعليم والاعتماد في 12/7/2012م

