Research Lab Sheet

Lab Name	Remote Sensing And Geographic Information Systems Labratory
Academic Year	2021-2022

Basic Information	
Department	Geology
Location	Building 3 -
Total area (m^2)	45 m^2
Head of the Lab	Dr. Bosy Abd El Aziz El Haddad
Establishment date	1/3/2007

Lab Members

No. of Prof.	No. of Ass. Prof.	No. of Lect.	No. of Ass. Lect. & Demonst.	No. of technicians
1	0	1	-	-

Staff members

#	Name	Scientific degree	e-mail	Specializations	C.V
1	Ahmed Mohamed Yosssef	Prof.	amyoussef70@yahoo.com	Geological Hazards & Engineering Geology	C.V.
2	**Bosy Abd El Aziz El Haddad**	Lecturer	Bosy_Abdelaziz@science.sohag.edu.eg	Remote sensing	C.V.
3					
4					

Ass. Lecturers & Demonstrators

#	Name	Scientific degree	e-mail	Specializations	
1	------	--------------------	------------------	-------------------	---------

<table>
<tr><th colspan="3">Theses produced by the Lab</th></tr>
<tr><th colspan="3">M Sc Thesis</th></tr>
<tr><th>#</th><th>Title</th><th>Approval date</th></tr>
<tr><td>1</td><td>Evolution of the geological history of the Egyptian Nile at Sohag area using sedimentological studies and remote sensing techniques</td><td>2014</td></tr>
<tr><th colspan="3">Ph.D. Thesis</th></tr>
<tr><td>1</td><td>APPLICATIONS OF REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEMS IN GEOLOGICAL HAZARDS AEESSMENT, SOHAG-RED SEA SECTOR, EGYPT</td><td></td></tr>
</table>

	Articles produced by Lab members
#	**Title**
1)	Abdel Moneim A. A., Youssef A. M., Ahmed A. A., Abu El- Maged S (2007). Impact of the Development projects on the groundwater potentiality in the desert areas surrounding Sohag Governorate using remote sensing and GIS. The 5th Conference on the Geology of Africa, Assiut University.
2)	El-Haddad, A.A. and Youssef, A (2008): Overview of the potential geo-environmental hazards in the low desert zone, Nile Valley, Egypt; Case study: new projects west of El-Kawamel village, Sohag. . Bull. Of Assiut university
3)	-Youssef, A. M., Biswajeet Pradhan, and Tarabees, E. A., 2010: A GIS Multi criteria approach for site suitability by integrating of geophysical and geological data, Sukhna area, Suez, Egypt. Arabian Journal of Geosciences. DOI 10.1007/s12517-009-0118-1.
4)	-Youssef, A. M., and Maerz, N. H., 2009: Slope stability hazard assessment and mitigation methodology along eastern desert Aswan-Cairo highway, Egypt. JKAU: Earth Sci., Vol. 20, No. 2, pp: 161-181.
5)	-YOUSSEF, A. M. AND HASSAN, A. M. (2009): Safety assessment of Feiran-Katherine road in the Southern Sinai against flash flood hazards using GIS and satellite. J of Indian Society of Remote Sensing, (September,2009), 37, 377- 393
6)	-Youssef A. M and A. A. Abdel Moneim A.A (2006). Evaluation of the Geo-environmental Hazards in Relation to the Future Development Using the Geographical Information Systems, East Sohag Governorate. The third international conference for development and the environment In the Arab world, March 21, 23, 2006 Assiut University, pp. 673-692.
7)	- Youssef, A. M., Abdallah M. Hassan, and Abdel Aziz A. El-Haddad, 2009: Mapping of Pre-rift/Syn-rift sedimentary units using Enhanced Thematic Mapper Plus (ETM+): Southwestern Sinai Peninsula, (Sidri – Feiran area), Egypt. Journal of the Indian Society of Remote Sensing. V. 37(3): 377-393. DOI: 10.1007/s12524-009-0031-9.
8)	-El-Khashab, M. (2006) "Geoenvironmental Evalution Of The Proposed Sohag - Hurgada Road using remote sensing and GIS techniques" . M. Sc Thesis, Faculty of science, Sohag university.
9)	- El-Haddad, Bosy A., Ahmed M. Youssef, Tawfiq M. Mahran, and Abdel Hammed El-Sharter. "Mapping of Pliocene-Pleistocene Rock Units Using Enhanced Thematic Mapper Plus ETM+: Case Study, Wadi Qasab Area, South East Sohag, Egypt." In Eighth Int Conf Geol Africa Assuit, Egypt, pp. 1-13. 2013.
10)	- El-Haddad, Bosy A., Ahmed M. Youssef, Tawfiq M. Mahran, and Abdel_Hammed El-Sharter. "Material mapping in the western desert of Egypt using remote sensing and field investigation: a tool for managing urban development." world (2014).
11)	- Youssef, A.M., Pourghasemi, H.R., El-Haddad, B.A. (2016) Landslide susceptibility maps using different probabilistic and bivariate statistical models and comparison of their performance at Wadi Itwad Basin, Asir Region, Saudi Arabia. Bull Eng Geol Environ 75, 63–87.

	https://doi.org/10.1007/s10064-015-0734-9
12)	. El-Haddad. "Coupling of field investigations and remote sensing data for karst hazards in Egypt: case study around the Sohag City." Arabian Journal of Geosciences 10, no. 11 (2017): 1-13
13)	- Youssef, Ahmed M., Abdel-Hamid El-Shater, Mohamed H. El-Khashab, and Bosy A. El-Haddad. "Karst induced geo-hazards in Egypt: case study slope stability problems along some selected desert highways." In International Congress and Exhibition" Sustainable Civil Infrastructures: Innovative Infrastructure Geotechnology", pp. 149-164. Springer, Cham, 2017
14)	- 13-El-Haddad, Bosy A., Ahmed M. Youssef, Hamid R. Pourghasemi, Biswajeet Pradhan, Abdel-Hamid El-Shater, and Mohamed H. El-Khashab. "Flood susceptibility prediction using four machine learning techniques and comparison of their performance at Wadi Qena Basin, Egypt." Natural Hazards 105, no. 1 (2021): 83-114

Evaluate the fulfillment of lab to appropriateness 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.	√		