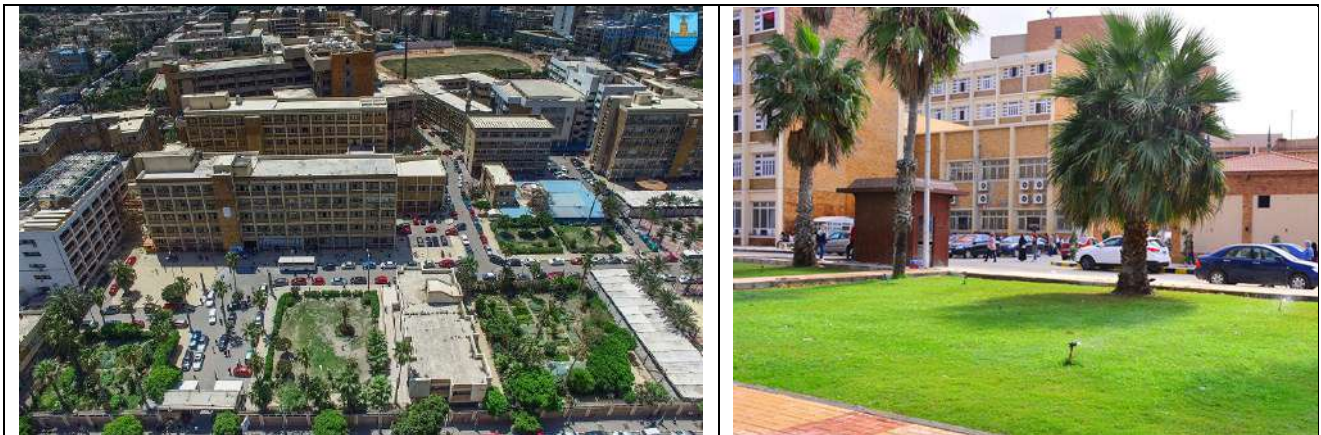


Template for Evidence(s) UI GreenMetric Questionnaire

University : Alexandria University
Country : Egypt
Web Address : <https://alexu.edu.eg/>

[5] Transportation (TR)

[5.13] Ratio of Parking Area to Total Campus Area



Campus of Humanities and Social Sciences (Alexandria University, Egypt)



Campus of Humanities and Social Sciences (Alexandria University, Egypt)



Campus of Humanities and Social Sciences (Alexandria University, Egypt)



Faculty of Science (Alexandria University, Egypt)



Faculty of Physical Education for Boys (Alexandria University, Egypt)



Alexandria National University

Journals & Magazines > IEEE Transactions on Intellig... > Volume: 26 Issue: 5

Improved Utilization for “Smart Parking Systems” Based on Paging Technique

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Researchers at Alexandria University are addressing the economic benefits of smart parking systems in urban areas by proposing a 'paging technique' that optimizes parking slot utilization.

Description:

- According to documented information received from the University’s “Information, Documentation and Decision Support Center,” the university’s parking lots occupy approximately **3.85%** of the university’s total area and are designated for faculty members and administrators. Students park their cars and motorcycles outside the university walls and move inside on foot.
- On the other hand, in order to facilitate transportation to and from the university, save energy, reduce pollution resulting from emissions, and provide parking spaces, routes have been allocated for university buses (the capacity of each bus is 30-50 passengers) to cover areas far from the scope of the university administration and faculties and most of these buses are waiting outside the university walls.

Total main campus area: 8083208.274 m²
 Total parking area = 310,892.62 m² (24,871.41 spaces*12.5m² per space).
 Ratio = 8083208.274 m² : 310,892.62 m² = **26 : 1**
 Parking area: **3.85%** of total campus area

- Researchers at Alexandria University are working on improving the efficiency of smart parking systems in urban areas by developing a paging technique, which aims to optimize the use of parking spaces by reducing idle time between vehicles using the same parking slot. It reallocates unused parking time, allowing for more efficient utilization of slots.

Link for Sustainable Development: <https://alexu.edu.eg/index.php/en/sustainable-development>
<https://alexu.edu.eg/index.php/en/2015-11-24-10-38-07/ranking?id=6011>
<http://sustainability.alexu.edu.eg/>

Link for Green University:
https://alexu.edu.eg/index.php/?option=com_content&view=article&id=5932&catid=21&lang=ar-AA

A statement of the areas of the university sites

NO	Campus	The area in square meters	Total Campus ground floor area in square meters	Total campus building area in square meters	Open Area in square meters	Total Area on campus covered in planted
1	University administration building	1940	1940	5820	0	0
2	Faculty of Physical Education for Boys	113311.93	33993.879	82764	22662.386	86688.968
3	Faculty of Physical Education for Girls	2891	867.3	12264.65	578.2	1445.5
4	The medical complex	91216	27364.8	35415.985	18243.2	45608
5	Faculty of Science in Horia Street	22197	6659.1	21248	4439.4	11098.5
6	Faculty of Science in Moharram Bek	5485	1645.5	17305	1097	2742.5
7	Faculty of Engineering	111034	30152	564046.205	22206.8	58675.2
8	Campus of Humanities and Social Sciences	80707	24212.1	106283	16141.4	40353.5
9	Faculty of fine Arts	2569	770.7	13068	513.8	1284.5
10	Faculty of Specific Education	1194	1194	1972.92	0	0
11	Faculty of Early Childhood Education	1407	422.1	1370.25	281.4	703.5
12	Medical Research Institute (Horia Street - Smouha)	2500	2500	19200	0	0
13	Higher Institute of Public Profession	700	700	2800	0	0
14	Community service center, printing press, club and garage - Smouha	3110	933	3110	622	1555
15	University Stadium (Student Service Center)	33831.7	10149.51	10149.51	6766.34	16915.85
16	Youth Care	1500	450	3000	300	750
17	Veterinarians Abis	141639.91	42491.973	42491.973	28327.982	70819.955
18	Saba Basha Babis tenth farm	202342.72	60702.816	60702.816	40468.544	101171.36
19	Bagushe	182108.45	54632.535	182108.45	36421.69	91054.225
20	Burj Al Arab International Medicine	1420445.92	426133.776	1420445.92	284089.184	710222.96
21	El Hamam Pigeon farm (affiliated with the Faculty of Agriculture)	1274759.16	382427.748	1274759.16	254951.832	637379.58
22	Earth of the globe El Maamoura	33386.55	10015.965	33386.55	6677.31	16693.275
23	The farm land of the Faculty of Agriculture, Saba Basha, in the area of Khemisa, Siwa Oasis	404685.45	121405.635	121405.635	80937.09	202342.725
24	University land in Smouha (College of Nursing - Children's Hospital - Faculty members residences)	105218.22	31565.466	105218.22	21043.644	52609.11
25	Break of the Faculty of Science in the old Burj Al Arab	21475.98	6442.794	21475.95	4295.196	10737.99
26	Land of Mouwasat Hospital	20234.27	6070.281	2023.27	4046.854	10117.135
27	The land of Wadi Natrun	4545	1363.5		909	2272.5
28	Abis Campus	2225769.96	667730.988	2225769.96	445153.992	1112884.98
29	Institute of Graduate Studies and Research	2764	829.2	4146	552.8	1382
30	Central Library	600	180	720	120	300
31	Student Activities Center	2270	681	1362	454	1135
32	Faculty of Agriculture Saba Pasha	144200.934	2561.03	2561.03	40468.544	101171.36
33	Expatriate Student Housing Saba Pasha	722.2	216.66	866.64	144.44	361.1
34	International Media (Burj Al Arab)	1420445.92	426133.776	426133.776	284089.184	710222.96
	Total	8083208.27	2385538.83	6795394.87	1627003.21	4070666.23
	Ratio	100%	30%		20%	50%

Said Al