



Al-Nahrain University



**Annual report for
sustainability**

SUPERVISED BY:

Prof.Dr.Omer.F.Abdul-Rasheed

DESIGNED AND SUBMITTED BY:

Asst.Prof.Dr.Zaid Akram Thabit

Asst.Lec.Aoday.H.Ali

Asst.Lec. Enas.F.Yahya



University : Al –Nahrain University
Country : Iraq

INTRODUCTION:

Al-Nahrain University is an educational public university established in 1987 and located in Baghdad, Iraq. The university offers undergraduate and postgraduate education as well as research opportunities. Its current name "Nahrain" meaning The Two Rivers (as in the two rivers of Iraq: Tigris and Euphrates).

The vision ,message, goals, values are undergone exact revision and execution ,committees were started formulating to predetermine the priorities ,check and revision of the performance and outcomes of the aiming teaching, computerize the administrative work preparing to enter the University in the World Ranking.

Primary works cent rerate on encouraging the teaching body by using and adopting the multimedia means of teaching of the modern age ,and develop the infrastructure to achieve the goals of University according to the number of its students for pioneering careers to achieve the balance between the basic and practical researches, encouraging the practical side towards the invention, manufacture and marketing the researches , develop them by the means , procedures and tools .Besides ,it encourages the business incubators inside and outside the University and investing the scientific research to ensure an economic environment for the University to depend on its auto-spending in the future.

Al-Nahrain University remains a spring of the science and knowledge characterized by its serious work and openness to the new thoughts; and it is regarded as a light of society and a factory of creation, a laboratory of science and culture and it remains a title of renaissance and one of the outstanding Iraqi Universities.



University : Al –Nahrain University
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Setting and Infrastructure (SI)



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[1] Setting and Infrastructure (SI)

[1.3] Number of Campus Sites





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Al-Nahrain University has two sites, the first site is the Al-Jadriya campus in the Al-Jadriya area, with an area of (**669878.24 m sq**), with a distance of (**15.5689 km**), which is located in the heart of the capital, and the second site is the site of the Al-Kadhimiya campus, located in Al-Kadhimiya area, with an area of (**95339.79 m sq**) and a distance of (**8.493 km**).

Additional evidence link : <https://www.youtube.com/watch?v=mEirNtxmcxA>

Additional evidence link : <https://nahrainuniv.edu.iq/ar/node/7954>



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[1] Setting and Infrastructure (SI)

[1.4] Campus setting





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Al-Nahrain University is one of the Iraqi universities that was established in Baghdad in 1987. The campus of Al-Nahrain University is one of the largest, most beautiful and attractive sites, as it is surrounded by wide green spaces in addition to the special location in the Iraqi capital (Baghdad).



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[1] Setting and Infrastructure (SI)

[1.5] Total campus area (m2)



Total Area of Southern campus = **669878.24 m sq**

Total distance/circumference of Southern campus = **15.5689 km**

Total Area of Northern campus = **95339.79 m sq**

Total distance/circumference of Northern campus = **8.493 km**



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Total area of all campus in Al –Nahrain University

campus	Distance	Area
Southern campus	15.5689 km	669878.24 m sq
Northern campus	8.493 km	95339.79 m sq
Total	24.062 km	765218.03 m sq



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[1] Setting and Infrastructure (SI)

[1.6] Total campus ground floor area of buildings (m2)

Campus	Distance	Buildings
Southern campus	6.36594 km	560245.68 m sq
Northern campus	3.51228 km	26773.06 m sq
Total	9.87822 km	587018.74 m sq



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[1] Setting and Infrastructure (SI)

[1.7] Total campus buildings area (m2)

Buildings area
1747063.78 msq





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Al-Nahrain University was established in 1987 and it includes two campus, one of them in Jadriya, which includes the College of Engineering, Science, Political Science, Information Engineering, Business Economics, Biology, Biotechnology Research Center, Forensic DNA Center for Research and Training, Al-Nahrain Research Center for Nano Renewable Energy, Electronic computer Center, and the other in Al-Kadhimiya includes Faculties of Medicine, Pharmacy and the Higher Institute for Infertility Diagnosis and Assisted Reproductive Technologies.



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[1] Setting and Infrastructure (SI)

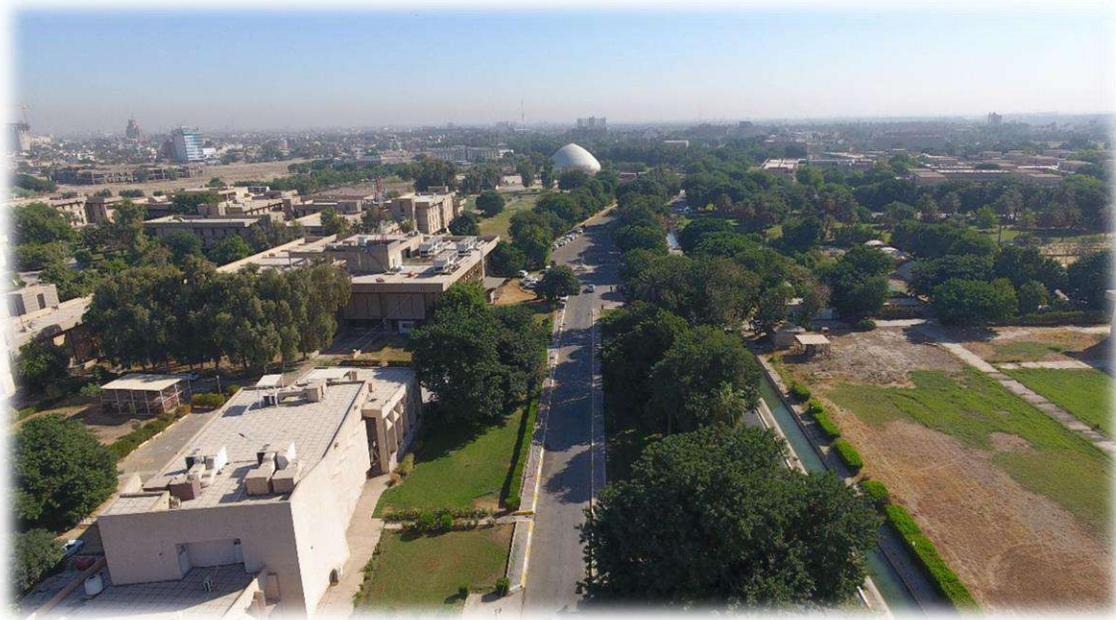
[1.8] (SI.1) The ratio of open space to total area

Formula: $((1.5-1.6/1.5)*100\%)$

$((765218.03 \text{ m sq} - 587018.74 \text{ m sq} / 765218.03 \text{ m sq}) * 100\%)$

$= (178199.29 \text{ m sq} / 765218.03 \text{ m sq}) * 100\%$

=23 %



Where (765218.03 m sq) represent the total area of the Al-Nahrain university (southern and northern campus), (1747062 m sq) represent the building area of the university. Finally, (23%) represent the ratio of open space to total area of the Al –Nahrain University.

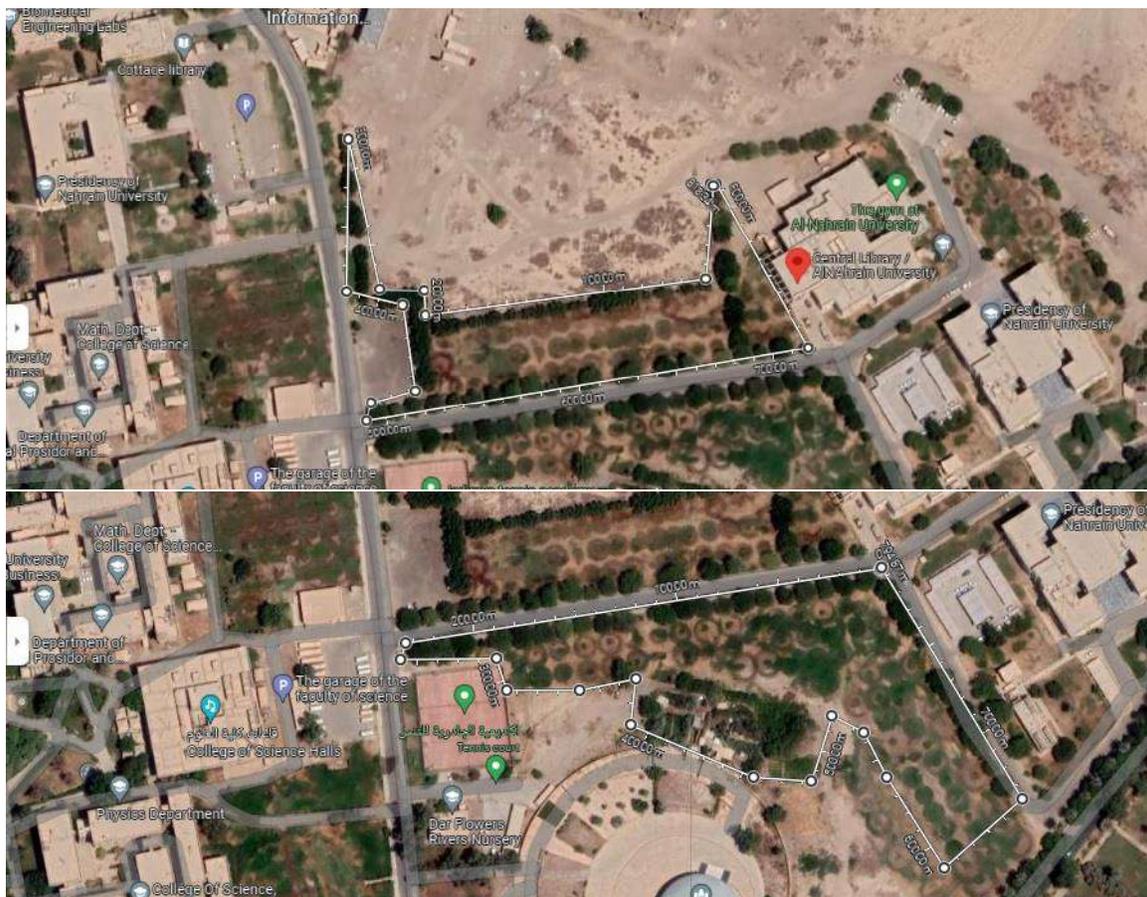


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[1] Setting and Infrastructure (SI)

[1.9] (SI.2) Total area on campus covered in forest vegetation

Forests	
Distance	Area
4494.46 M	76454.30 m sq



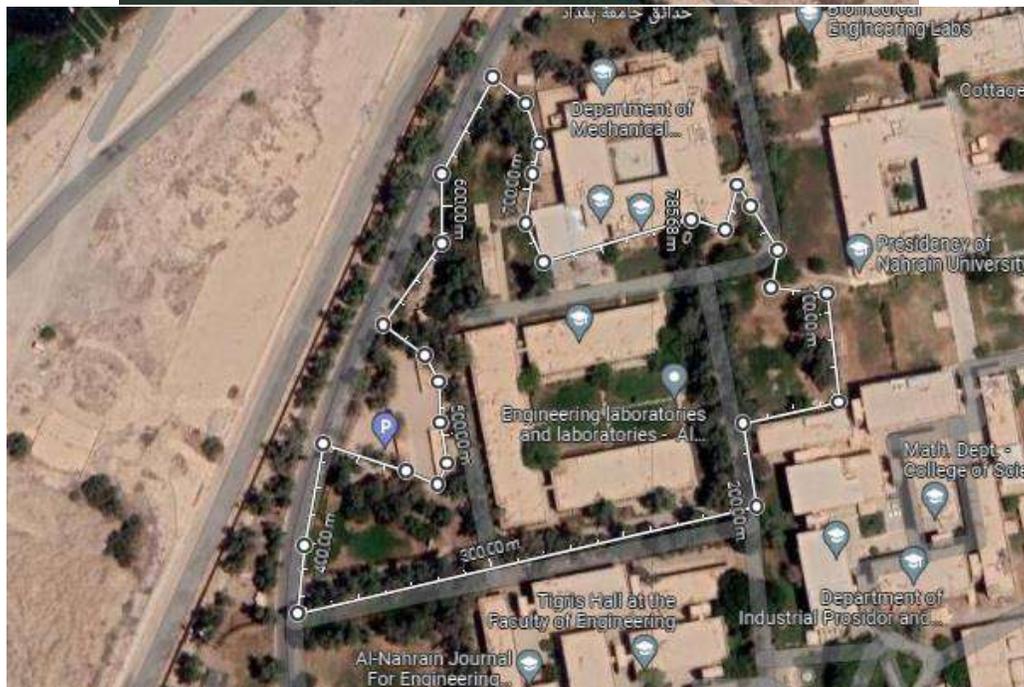
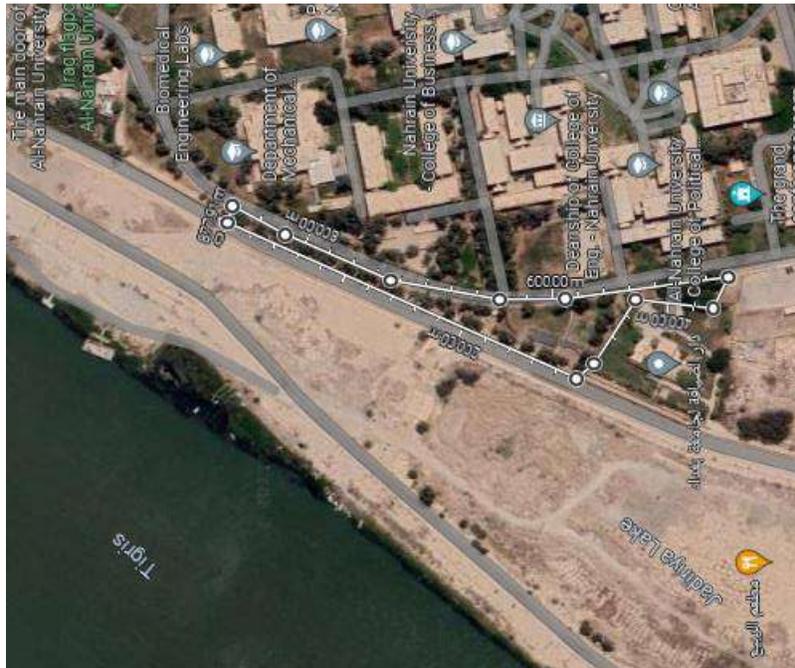


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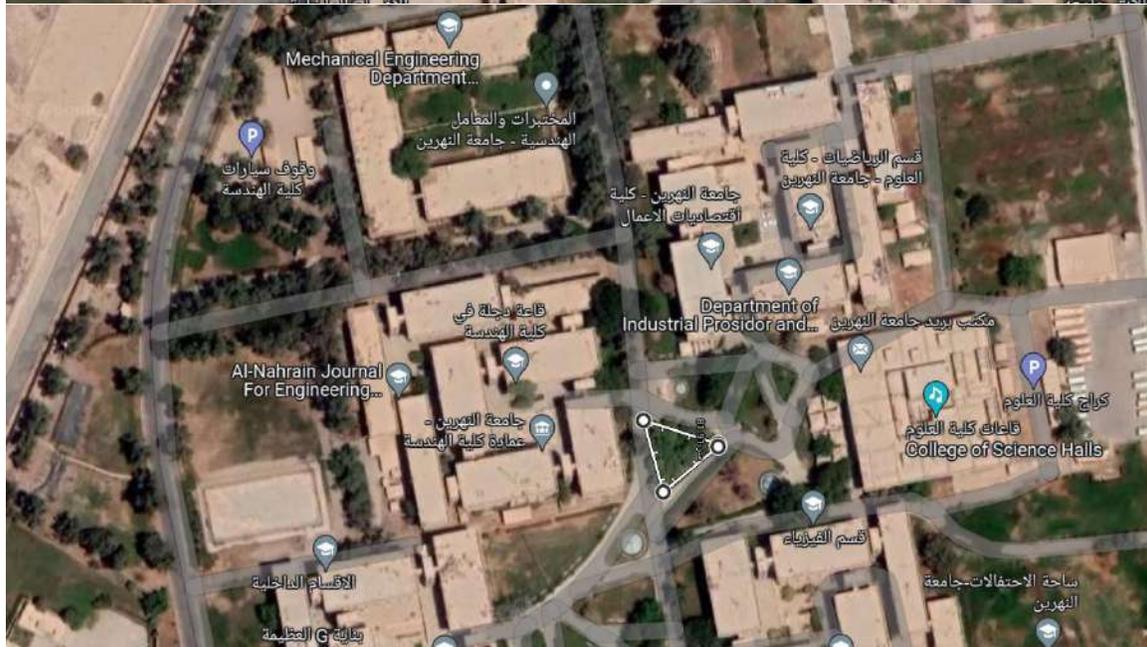
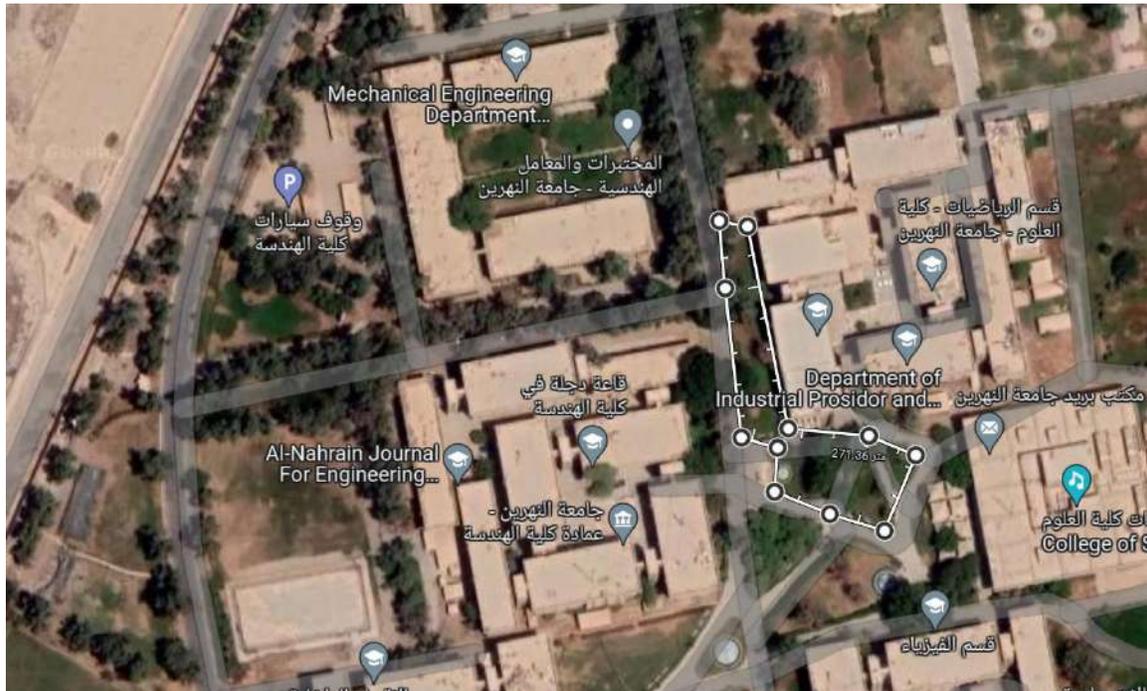


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Where **(76454.30 m sq)** represent the total area on campus covered in forest vegetation and **(4494.46m)** represents the Total distance/circumference of the Al-Nahrain university (Southern and Northern campus).

Additional evidence link: <https://nahrainuniv.edu.iq/ar/node/8087>



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[1] Setting and Infrastructure (SI)

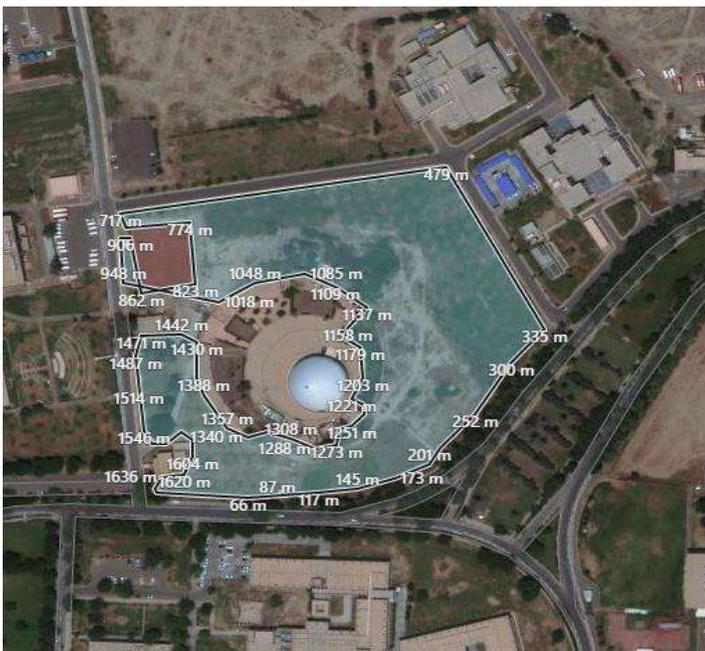
[1.10] (SI.3) Total area on campus covered in planted vegetation

Planting	
Distance	Area
10.32805 km	156,122.29 m sq





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Where (156,122.29m sq) represents the total area on campus covered in forest vegetation and (10.32805km) represents the Total distance/circumference of Al-Nahrain University (Southern and Northern campus).



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[1] Setting and Infrastructure (SI)

[1.11] (SI.4) Total area on campus for water absorption be sided forest and planted vegetation





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The water of the Tigris River is an important element that Al-Nahrain University uses to water and irrigate plants on campus





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The southern campus of Al-Nahrain University is adjacent to the Tigris River on the southern side of the campus by a distance of (2.33 Km).while the area of the water that sided southern campus its equal to (257.094.74 m sq) in approximation.

Total **water absorption** area: 167,339.30 m²

Total Area: 765218 m²

Percentage area: 21%



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[1] Setting and Infrastructure (SI)

[1.12] Total number of regular students (part time and full time)

Total	9799
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[1] Setting and Infrastructure (SI)

[1.13] Total number of online students (part time and full time)

Total	2842
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[1] Setting and Infrastructure (SI)

[1.14] Total number of academic and administrative staff

Total	3480
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[1] Setting and Infrastructure (SI)

[1.15] (SI.5) The total open space area divided by total campus population

$$\begin{aligned} \text{Formula: } & ((1.5-1.6)/ (1.12+1.14)) \\ & ((765218.03 \text{ m sq} -587018.74 \text{ m sq})/ 13279) \\ & = 13.4\% \end{aligned}$$



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[1] Setting and Infrastructure (SI)

[1.16] Total university's budget (in US Dollars)

Total	532677.7\$
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[1] Setting and Infrastructure (SI)

[1.17] University's budget for sustainability effort (in US Dollars)

Total	79.901.6\$
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[1] Setting and Infrastructure (SI)

[1.18] (SI.6) Percentage of University's budget for sustainability effort

$$\begin{aligned}\text{Formula: } & ((1.17/1.16)*100\%) \\ & = (79.901.6/532677.7)*100\% \\ & = 14 \%\end{aligned}$$



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[1] Setting and Infrastructure (SI)

[1.19] (SI.7) Campus facilities for disabled, special needs, and/or maternity care

Al-Nahrain University offers students with disabilities the following:

- 1- A specialized staff to follow up the needs and requirements of students with disabilities in all its faculties.
- 2- Educational and psychological staff for people with disabilities inside the university campus

Al-Nahrain University has prepared a plan to meet the requirements of students with disabilities, and a central unit has been established for them to deal with the following:

- 1- Providing curricula for the blind based on touch
- 2- Providing headphones to listen to lectures for deaf students
- 3- Providing a hall for people with disabilities with a screen to display the curricula in audio and video.
- 4- Providing a recreational club for people with disabilities.
- 5- Providing wheelchairs to facilitate their movement between buildings
- 6- Parking for people with disabilities.
- 7- Nahrain University has opened a nursery on campus to accept the children of employees, as shown in the attached link.
- 8- Park for People with Special Needs.
- 9- A policy has been adopted to support people with special needs and another policy to accept students with special needs.





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The link:

https://web.facebook.com/p/%D8%B2%D9%87%D9%88%D8%B1-%D9%84%D8%B1%D9%8A%D8%A7%D8%B6-%D8%A7%D9%84%D8%A7%D8%B7%D9%81%D8%A7%D9%84-100054244161986/?_rdc=1&_rdr#

The link:

<https://sustaina.nahrainuniv.edu.iq/ar/%d8%b3%d9%8a%d8%a7%d8%b3%d8%a7%d8%aa-%d8%a7%d9%84%d8%ac%d8%a7%d9%85%d8%b9%d8%a9-%d8%a8%d8%b4%d8%a3%d9%86-%d8%a7%d9%84%d8%aa%d9%86%d9%85%d9%8a%d8%a9-%d8%a7%d9%84%d9%85%d8%b3%d8%aa%d8%af%d8%a7%d9%85/>



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[1] Setting and Infrastructure (SI)

[1.20] (SI.8) Security and safety facilities



CCTV outside building

Fire extinguishers





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gramophone

Fire truck





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Cameras inside the buildings

Alarms System





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Al-Nahrain University uses security and safety policies on campus.

1. The university has a gramophone to report emergency cases inside the university buildings.
2. CCTV monitoring cameras inside and outside buildings.
3. fire system (Alarms System, Fire truck, fire hydrant, Fire extinguishers).

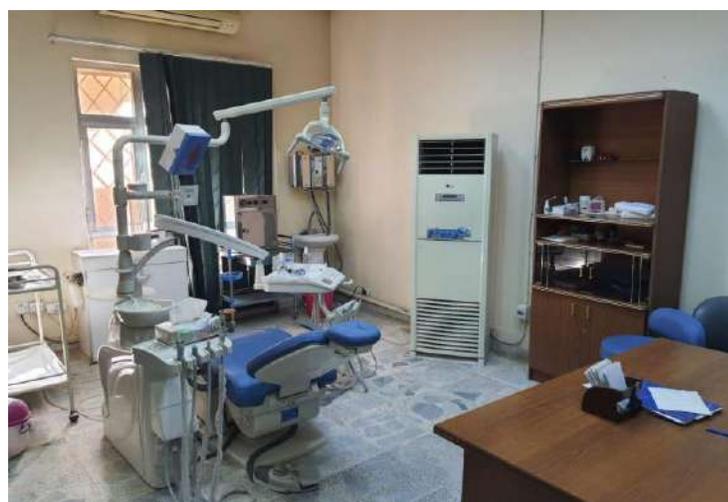
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[1] Setting and Infrastructure (SI)

[1.21] (SI.9) Health infrastructure facilities for students and academic and administrative staff wellbeing



Health care center



A dental examination and treatment unit



A sample examination unit



An ultrasound examination unit



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The High Institute for Infertility Diag-nosis and Assisted Reproductive Tech-nologies





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The High Institute for Infertility Diag-nosis and Assisted Reproductive Technologies is among the formations of our university. The Institute owns consulting clinics to provide health and reproductive counseling to patients from within the university (campus residents, including students and staff) or from abroad.

Al-Nahrain University has two health centers on campus to provide the following services without fees to staff and students on campus. These services include a specimen examination unit, dental examination and treatment unit, an ultrasound examination unit and an infertility consulting clinic. Al-Nahrain University has a pharmacy within the health center and provides first aid and treatments for special cases that are provided to students and staff. It also has a specialized laboratory and a center for conducting operations, and the university has launched an electronic clinic for students and employees with the activation of the global InSimu patient application to simulate real patients.

As in the following links:

Additional evidence link: <https://colmed-alnahrain.edu.iq/index.php?do=view&type=topic&id=13305909>

Additional evidence link: <https://colmed-alnahrain.edu.iq/index.php?do=view&type=page&id=341&lang=en>

Additional evidence link: <https://colmed-alnahrain.edu.iq/index.php?do=view&type=page&id=318&lang=en>

Additional evidence link: <https://colmed-alnahrain.edu.iq/index.php?do=view&type=page&id=320&lang=en>



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Additional evidence link : <https://www.colmed-alnahrain.edu.iq/index.php?do=view&type=topic&id=13305601>

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[1] Setting and Infrastructure (SI)

[1.22] (SI.10) Conservation

1- Al-Nahrain University owns greenhouses for the cultivation, keeping, and maintenance of green plants that are periodically planted inside the campus.





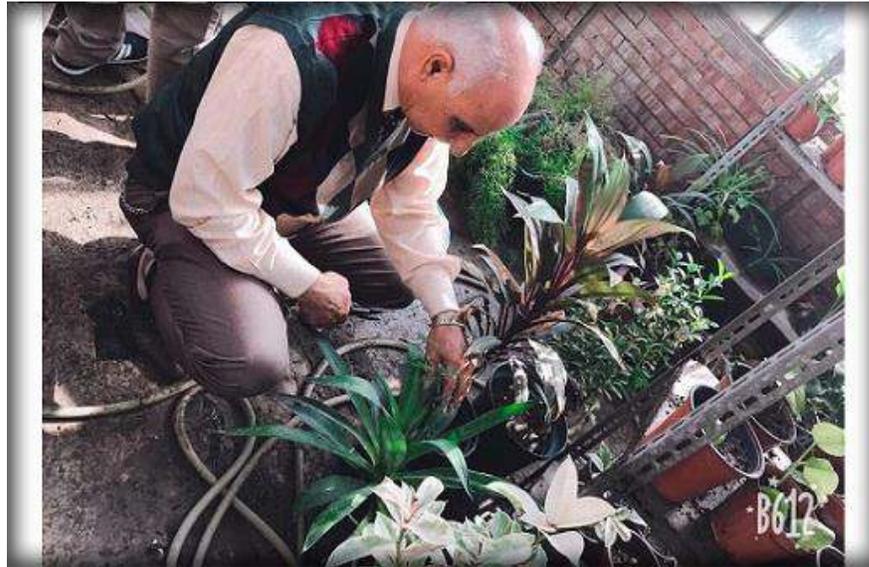
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Green houses at AL-Nahrain university



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Greenhouse for growing plants out of season

Al-Nahrain University has green houses for the seeding and conservation of plants grown for the residents of the campus, and the university also produces honey for the residents of the campus through the university's apiaries.

Cultivation of different types of medicinal and ornamental plants within the greenhouse atmosphere in the winter season, as he urged field work, which is a scientific achievement in keeping pace with global development in the cultivation of a group of medicinal herbs in an environment other than their natural environment, as well as the cultivation of ornamental plants in greenhouses designated for the growth of plants in a way It is functional and aesthetic. It is mentioned that the completion of the work in building the greenhouse and providing the appropriate environment for the growth of young plants under the influence of a flashing electric lamp and appropriate humidity and ventilation in accordance with this design, which aims to provide plants with the light and heat necessary for growth, and give the



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house a beautiful natural luster and create suitable ventilation for plants and benefit It is for research and aesthetic purposes.

2- During the year 2023, Al-Nahrain University periodically produced a good crop of honey and absorbed it to cover the largest possible number of requests within the university's beehives for the campus residents and the community.

The electronic links below indicate the process of selling the honey product within the university.

Additional link:

<https://www.facebook.com/100064089368390/posts/pfbid02DdbPZw9DqF4UWLC61rBnCHxcW2atidozz65pyvPGe5nb5NHKw5eP3DgER4E2DsCw1/?mibextid=K8Wfd2>

Additional link:

<https://www.facebook.com/100064089368390/posts/pfbid0263obaZBhSsVq918AhL7rt3BvuYd37tCwWT2iqzVKdDuSsNazimGPxGoC7sH992EX1/?mibextid=K8Wfd2>





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The university's apiaries



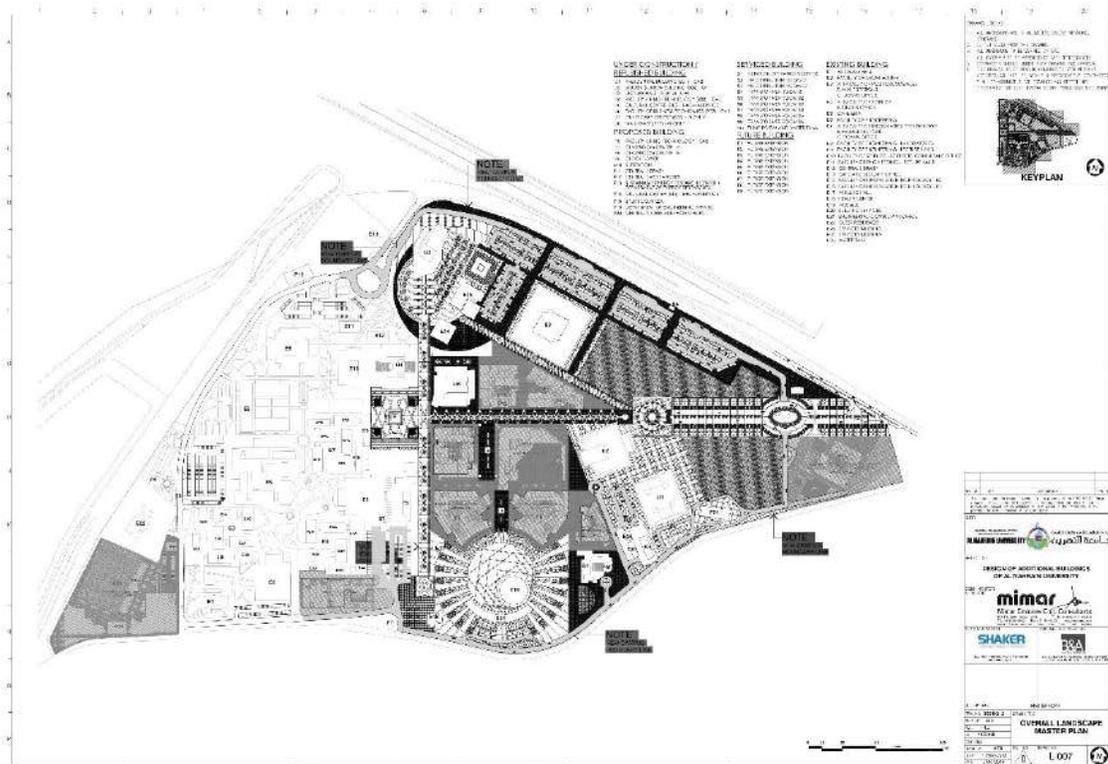
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[1] Setting and Infrastructure (SI)

[1.23](SI-11) Planning, implementation, monitoring and/or evaluation of all programs related to Setting and Infrastructure through the utilization of Information and Communication Technology (ICT)

Planning: At this stage, a comprehensive digital master plan has been created. This includes identifying needs, setting goals, and developing strategies for integrating ICT across the campus infrastructure. Nahrain University seeks to use project management software to coordinate planning activities, document discussions, and manage timelines.

Evidence:



Responsible Team: Business and Projects Department



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Implementation:

Al-Nahrain University uses smart boards inside its campus and in its classrooms to keep pace with the development in the teaching and learning process for students and to benefit from them in holding electronic workshops to facilitate the retrieval of lessons and stored information in full for the professor and the student, which will raise the efficiency of students and motivate them to continue the educational process.

Evidence:

<https://eng.nahrainuniv.edu.iq/single-blog.php?id=1530>

Responsible Team: Faculty Management

Monitoring :

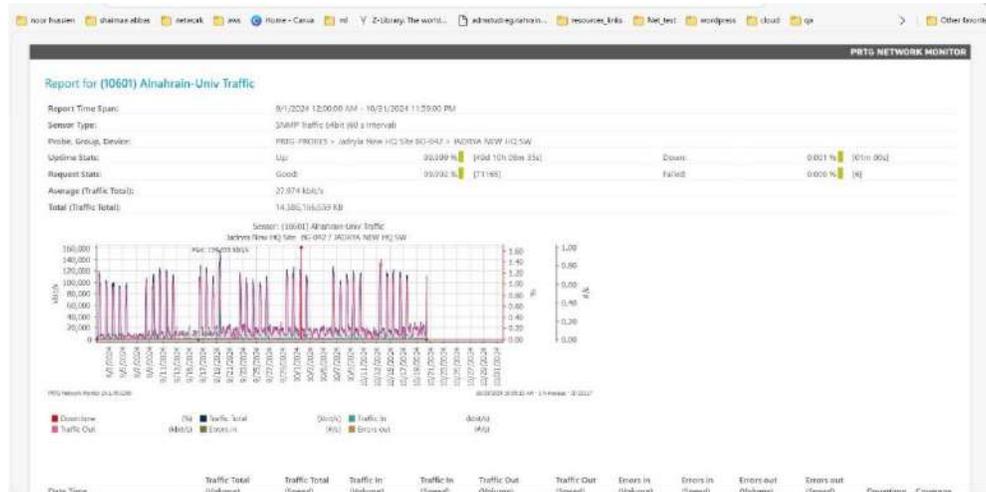
Continuous monitoring of the campus network infrastructure and the use of technology in classrooms to ensure better performance in the teaching and learning process through the presentation of lectures

- information and communication technology: Al-Nahrain University monitors networks using PRTG Network Monitor daily to check network performance.

Evidence:



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Evaluation: Al-Nahrain University conducts surveys using information and communication technology, which is represented by Google forms, and collects the results of these surveys about the use of modern technology in the educational process and analyzes these results using Excel.

Evidence:



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[1] Setting and Infrastructure (SI)

[1.24] Impact of Setting and Infrastructure programs in supporting the Sustainable Development Goals (SDGs)

The university has implemented various infrastructure and environmental setting programs that directly contribute to the achievement or impact of Sustainable Development Goals (SDGs). The key programs include:

- 1- Construction and rehabilitation of the College of Business Economics building / the new building in accordance with the principles of green building and sustainable construction.
- 2- Expansion of green open spaces (GOS) to improve air quality and support local biodiversity.
- 3- Provision of eco-friendly and inclusive sanitation facilities, including accessible toilets and waste separation units.
- 4- Pedestrian and bicycle paths were developed and integrated with public transportation within the university to promote low-emission mobility.





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Energy and Climate Change (EC)



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[2] Energy & Climate Change (EC)

[2.1] (EC.1) Energy efficient appliances usage

Al-Nahrain University seeks to save energy through the use of many energy-saving devices in all buildings within the campus (south and north).





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No.	Details	Total Number	Total number energy Efficient appliances	Percentage
1	Standard air conditioner	580	418	72%
2	Standard air conditioner(inverter)			
3	Standard lamps	7156	5654	79%
4	Standard lamps(LED)			
5	Desktop computers	660	400	60%
6	Desk top computers(Laptop)			
7	Stand Fan	200	150	75%
8	Refrigerator	150	100	66%
9	Solar system	5000	1000	20%
Average Percentage				62%

Al-Nahrain University generates electrical energy through generators with a capacity of 5000 kilowatts/h, as well as generating electrical energy through solar panels with a capacity of 1000 kilowatts/h.



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[2] Energy & Climate Change (EC)

[2.2] Total campus smart building area (m2)

Total campus smart building area
507706.152 m sq



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[2] Energy & Climate Change (EC)

[2.3] (EC.2) Smart Building implementation (percentage of the total floor area of smart building to the total all floors building area (smart and non-smart buildings area)).





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No.	Name	Place	automation		Safety				energy		water		Indoor environment				lighting				Building Area (m ²)	
			B1	B2	S1	S2	S3	S4	E1	E2	A1	A2	I1	I2	I3	I4	L1	L2	L3	L4		
1	University of AL-Nahrain; sothren campus buildings	Jadriah,Iraq	x		x	x	x		x		x	x	x					x		x	x	491627.916 m2
2	University of AL-Nahrain; northern campus buildings	Kadhmiya,Iraq	x		x	x	x		x		x	x	x					x		x	x	16078.236 m2
Total																						507706.152 m2

total building area=1747062 m sq

total smart building area=507706.152 m2

(total smart building area/total building area)×100%

(507706.152 m2/1747062 m2)*100

= %29



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[2] Energy & Climate Change (EC)

[2.4] (EC.3) Number of renewable energy sources in campus

Four sources:

- 1- wind power
- 2- solar power
- 3- bio diesel
- 4- Clean Biomass





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[2] Energy & Climate Change (EC)

[2.5] Renewable energy sources in campus and provide capacity produced in kilowatt-hour

Biodiesel=5000 kilowatt-h



Biodiesel



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Solar Power

Al-Nahrain University supplies its classrooms and scientific laboratories with electrical energy using a solar panel system at a rate of (1000 kilowatt-h) and it is of two types: hybrid and offgrid.



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windmill = 1000 kilowatt-h



Clean Biomass = 100 kilowatt-h



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The refrigeration, heating and power unit at Al-Nahrain University that uses biodiesel as fuel the heat can be used to heat water that used daily in campus.



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[2] Energy & Climate Change (EC)

[2.6] Electricity usage per year (in kilowatt-hour)

Electricity usage per year	7559973 kilowatt-hour
----------------------------	-----------------------



Where in these two months there is a holiday for the under graduate students only



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[2] Energy & Climate Change (EC)

[2.7] (EC.4) The total electricity usage divided by total campus population (kWh per person).

$$\text{Formula: } (2.6) / 1.12+1.14$$
$$7559973 \text{ kWh} / 13279$$
$$569,317 = \text{(kwh per person)}$$



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[2] Energy & Climate Change (EC)

[2.8] (EC.5) The ratio of renewable energy production divided by total energy usage per year



Biodiesel Combined Cooling Heating and Power Integration Unit



Windmill system



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solar system

No	Renewable Energy	Production (in kWh)
1	Biodiesel	5000
2	Clean Biomass	100
3	Solar panel	1000
4	Windmill	1000
	Total	7100

7100/ 7559973 (Electricity usage) =0.09%



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[2] Energy & Climate Change (EC)

[2.9] (EC.6) Elements of green building implementation as reflected in all construction and renovation policies

Modern methods were adopted to reduce the environmental impact in the design of the new buildings of our university, where several matters were relied upon:

- 1- Taking advantage of natural light
- 2- Using sustainable Local materials in the construction process and choosing materials free of volatile organic compounds
- 3- Green spaces were included in the design of the new buildings to enhance the environmental balance and reduce the heat generated by the buildings.
- 4- Use energy-saving devices
- 5- Strategically orient buildings to take advantage of wind and light, which enhances natural ventilation and reduces the use of heating and cooling system





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The buildings of Al-Nahrain University were designed according to systems that support natural lighting for the campus residents, and the pictures below illustrate this.





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Al-Nahrain University uses the central cooling and heating system inside the campus buildings.





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This video shows the green spaces in the university and the amount of vegetation in it.

Evidence: <https://www.facebook.com/share/r/Ly17y7a2bCXBgp8R/?mibextid=UalRPS>

Our university is striving with great efforts to raise the energy efficiency of its buildings and to pay more attention to nature and energy resources through the use of energy-saving devices, the policy of using renewable energy and the energy conservation program, green buildings, adaptation to climate change, and the policy of reducing greenhouse gas emissions through the implementation of the energy management policy.

Evidence: <https://sustainability.nahrainuniv.edu.iq/ar/node/132>

Evidence: <https://sustainability.nahrainuniv.edu.iq/ar/node/136>

Evidence: <https://sustainability.nahrainuniv.edu.iq/ar/node/138>



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[2] Energy & Climate Change (EC)

[2.10] (EC.7) Greenhouse gas emission reduction program

Al-Nahrain University uses various means to reduce greenhouse gas emissions such as

- 1- Planting trees and plants on the campus, such as a program to plant one million trees to increase the green spaces on the campus.
- 2- Using energy-saving devices, such as electronic car garages, using electronic cards.
- 3- Using solar energy to produce energy in |(solar irrigation, solar-powered cooling, Water purification using solar energy Planting trees and plants, chargers for mobile phones).
- 4- Using a windmill to generate electric power.

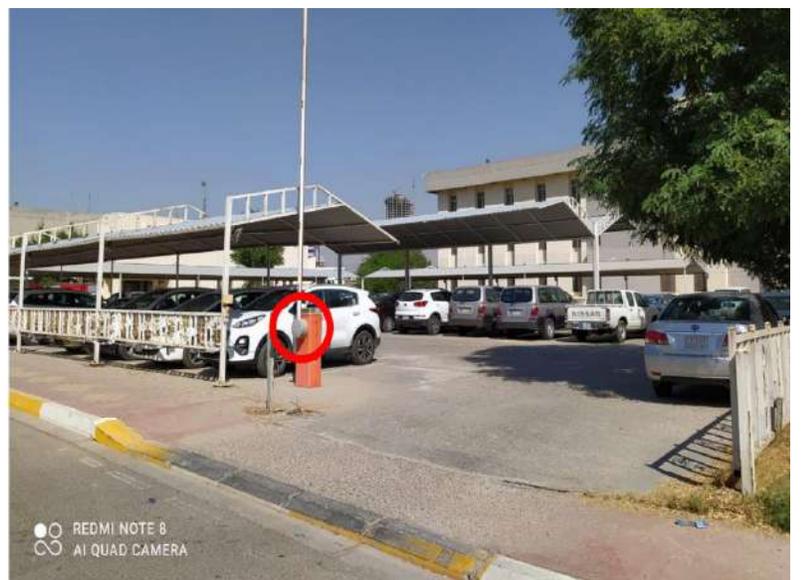




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Electronic car garage



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Solar watering device



This device has been prepared for the following reasons

- 1- Using technology (renewable energies) and benefiting from solar energy
- 2- Special parking to reduce the number of vehicles on campus.
- 3- Ride share is designed to encourage riders to adopt healthy and sustainable transportation options.
- 4- Reducing the workforce, as irrigation is done via the Internet.

The parts of the device are plastic tubes, holes are made as desired, and a little soil and fibers are placed in them. Capillary hoses are connected to each anvil built in one side of the device Connected to a water bottle that determines its size according to the device and a developer connected to power charging strips



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where drip irrigation is programmed each time It is determined by the type of plant.





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[2] Energy & Climate Change (EC)

[2.1] Please provide the total carbon footprint (CO₂ emission in the last 12 months, in metric tons)

CO₂ (electricity)

$$\begin{aligned} &= \frac{\text{electricity usage per year (kWh)}}{1000} \times 0,84 \\ &= (7559973 \text{ kW}/1000) \times 0.84 \\ &= 6,350.43 \text{ metric tons} \end{aligned}$$

CO₂ (bus)

$$\begin{aligned} &= \frac{\text{number of shuttle bus in your university} \times \text{total trips for shuttle bus service each day} \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01 \\ &= ((20 \times 2 \times 2 \text{ km} \times 240) / 100) \times 0.01 \\ &= (19200 / 100) \times 0.01 \\ &= 1,92 \text{ metric tons} \end{aligned}$$

CO₂ (cars)

$$\begin{aligned} &= \frac{\text{number of cars entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,02 \\ &= ((450 \times 2 \times 2 \text{ km} \times 240) / 100) \times 0.02 \\ &= (432000 / 100) \times 0.02 \\ &= 86 \text{ metric tons} \end{aligned}$$

CO₂ (motorcycle)

$$\begin{aligned} &= \frac{\text{number of motorcycle entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01 \\ &= ((10 \times 2 \times 2 \text{ km} \times 240) / 100) \times 0.01 \\ &= (9600 / 100) \times 0.01 \\ &= 0,96 \text{ metric tons} \end{aligned}$$

CO₂ (total)

$$\begin{aligned} &= 6,350.43 + 1,92 + 86 + 0,96 \\ &= 6,439.31 \text{ metric tons} \end{aligned}$$

Carbon footprint in 2024 = 6,439.31 metric tons



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[2] Energy & Climate Change (EC)

[2.12] (EC.8) The total carbon footprint divided by total campus population (metric tons per person).

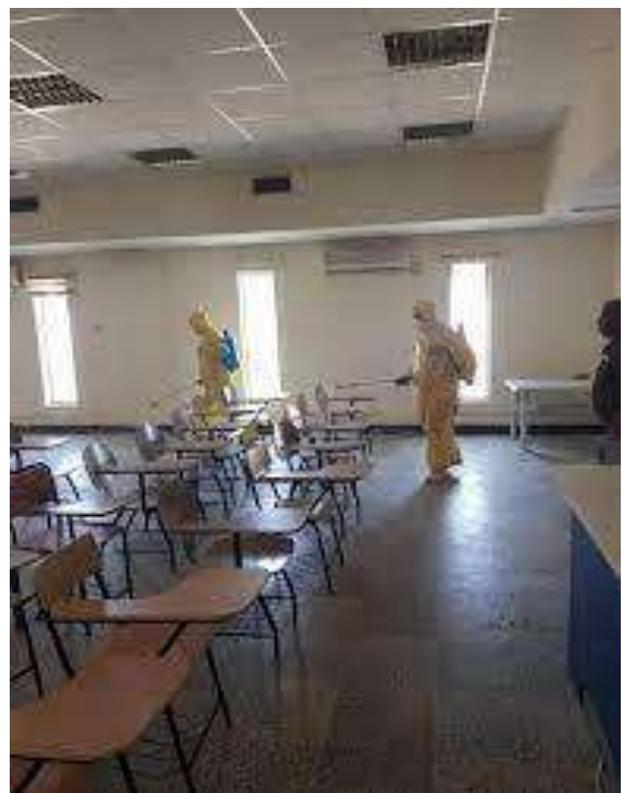
$$\begin{aligned}\text{Formula: } & (2.11)/(1.12+1.14) \\ & = 6,439.31 /13279 \\ & = 0.48\end{aligned}$$

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[2] Energy & Climate Change (EC)

[2.13] (EC.9) Number of innovative program in Energy and Climate Change

1- sterilization operations





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Al-Nahrain University is carrying out continuous campaigns to sterilize university buildings and classrooms by specialized cadres to limit the spread of Covid 19

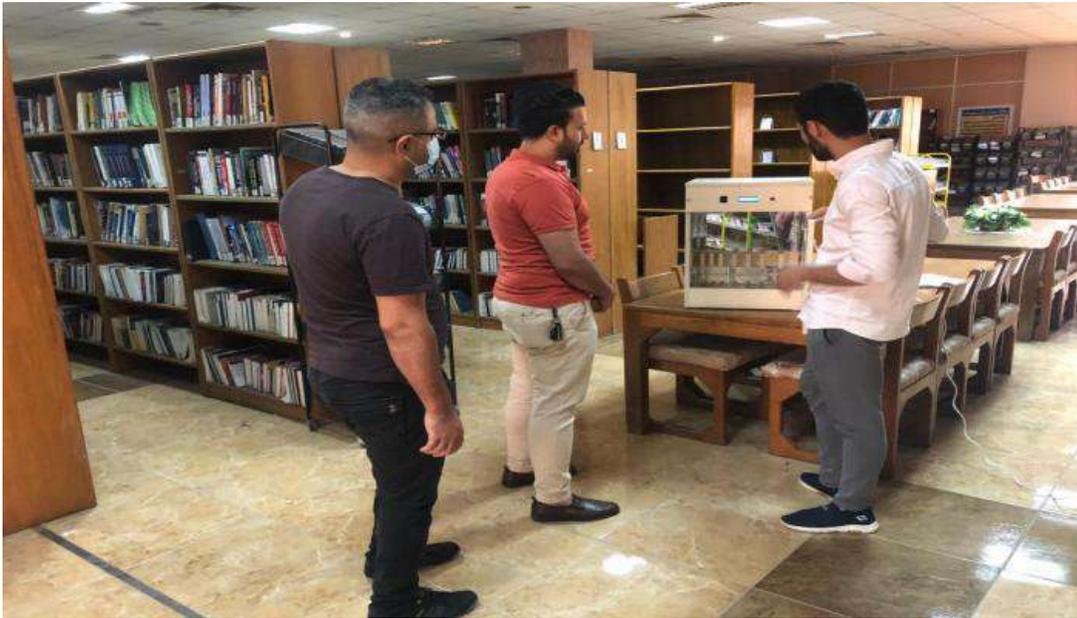
evidence link : <https://youtu.be/rf9VK5d6788>

evidence link : <https://youtu.be/W63rDyKplZg>

evidence link : <https://youtu.be/XJ1AuispxTU>



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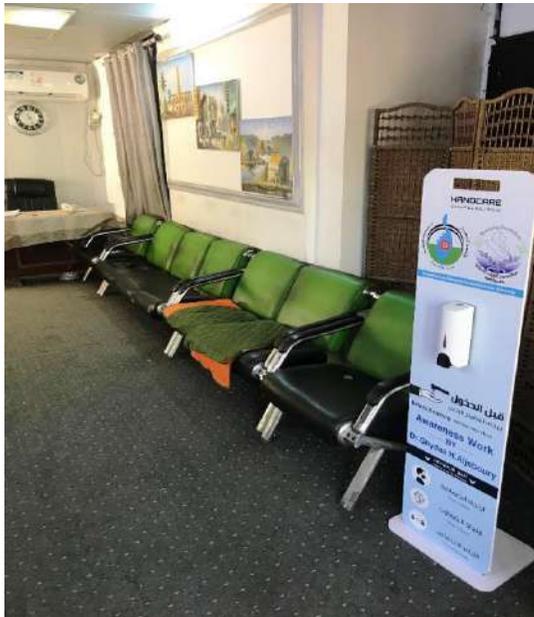
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2- Book sterilizer device

Al-Nahrain University has a book sterilizer that works on the principle of ultraviolet sterilization

The device sterilizes books and thesis to prevent corona virus and protect teaching and study staff.

3- Hand sanitizer device



Al-Nahrain University has deployed hand sanitizers in all campus buildings at the entrances to the main gates of each building for use by campus residents to limit the spread of COVID-19.



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4- Electric sterilizer device

Al-Nahrain University uses an electric sterilizer to ensure the sterilization of the atmosphere and surfaces to ensure the safety of the campus residents.

5- air sanitizer filter





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Al-Nahrain University uses filters to sanitize the air from viruses, bacteria and gases emitted from outside or inside the building to preserve the building environment from pollutants.



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[2] Energy & Climate Change (EC)

[2.14] (EC.10) Impactful university program on climate change

No	Programs	Scope (international / regional / national / local / etc)	Total Participants	Photo	URL	Short Description
1	Workshop on Sustainability	On campus	2 Teachers 15 Students			Delivering a lecture entitled “Climate Change and Its Impact on Women’s Reality and the Implementation of Sustainable Development Goals”
2	build windmills as a power station	Surrounding communities	...		...	Al-Nahrain University is building windmills as a power station, and it can produce electricity of around 1000 watts/hour, and we also process of constructing other windmills and distributing them throughout the campus to generate electricity for buildings using wind energy..



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٣	Solar energy system	Campus environment	...		https://nahrainuniv.edu.iq/ar/node/25612	AL-Nahrain University has installed additional solar panels to generate solar energy for student housing on campus.
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[2] Energy & Climate Change (EC)

[2.15](EC.11) Planning, implementation, monitoring and/or evaluation of all programs related to Energy and Climate Change through the utilization of Information and Communication Technology (ICT)

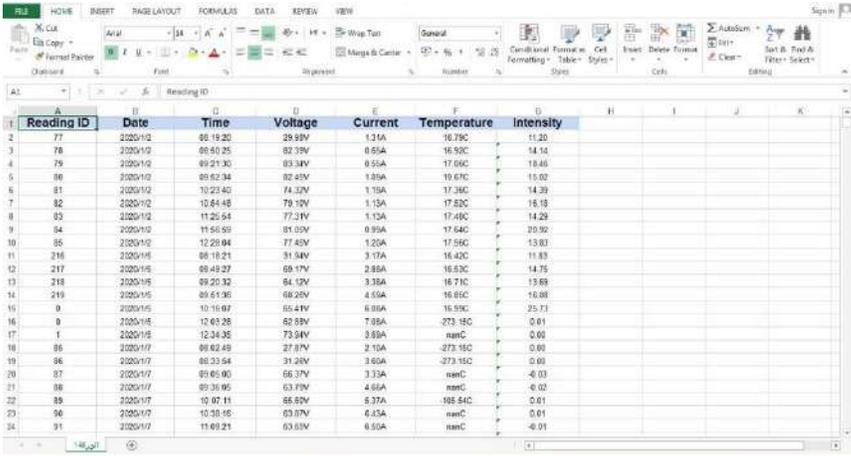
Stage	Activities/Programs	ICT Utilization	Evidence	Timeline	Responsible Team/Department
Planning	plans for installing solar panels	Performance monitoring program, Excel program	site assessment reports	2020	Renewable Energy Research Center
Implementation	Install solar panels,.	Project management tools, installation scheduling software	Installation logs, energy generation data	2020	Renewable Energy Research Center
Monitoring	Track renewable energy production	Renewable energy monitoring systems	Energy production reports, performance analytics	Periodically	Renewable Energy Research Center



Energy Installation

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Reading ID	Date	Time	Voltage	Current	Temperature	Intensity
77	2/20/2020	09:19:20	29.99V	1.31A	16.79C	11.20
78	2/20/2020	09:50:25	82.39V	0.65A	16.52C	14.14
79	2/20/2020	09:21:30	83.34V	0.95A	17.65C	18.46
80	2/20/2020	09:52:34	82.45V	1.85A	19.67C	15.02
81	2/20/2020	10:22:40	74.32V	1.15A	17.34C	14.29
82	2/20/2020	10:54:48	79.10V	1.13A	17.52C	16.18
83	2/20/2020	11:26:54	77.31V	1.13A	17.49C	14.29
84	2/20/2020	11:56:59	81.65V	0.99A	17.64C	20.52
85	2/20/2020	12:29:04	77.45V	1.20A	17.55C	13.83
216	2/20/2020	09:19:21	31.84V	3.15A	16.40C	11.83
217	2/20/2020	09:49:27	69.17V	2.88A	16.53C	14.75
218	2/20/2020	09:20:32	64.12V	3.38A	16.71C	13.69
219	2/20/2020	09:51:36	68.26V	4.59A	16.85C	16.88
0	2/20/2020	10:19:07	65.41V	6.99A	16.59C	25.73
0	2/20/2020	12:05:28	82.98V	7.85A	-273.15C	0.01
1	2/20/2020	12:24:36	73.84V	3.89A	nanC	0.06
85	2/20/2020	09:42:49	27.87V	2.10A	-273.15C	0.00
86	2/20/2020	08:23:54	31.26V	3.60A	-273.15C	0.00
87	2/20/2020	09:05:00	66.37V	3.33A	nanC	-0.03
88	2/20/2020	09:36:05	63.47V	4.66A	nanC	0.02
89	2/20/2020	10:07:11	85.52V	5.37A	-188.84C	0.01
90	2/20/2020	10:38:16	63.70V	6.43A	nanC	0.01
91	2/20/2020	11:09:21	63.63V	6.50A	nanC	-0.01

Installation and operation and monitoring of solar energy in university buildings

- **Planning:** Al-Nahrain University seeks, in the coming years, to increase the installation of solar panels throughout the campus to produce more energy. Since installing solar panels, Nahrain University has used a program to monitor and manage their performance. The program exports this data to Excel for deeper data analysis, creating customized reports, and comparing performance over different periods.
- **Implementation:** The solar panels were installed by the competent committee in 2020.
- **Monitoring:** Al-Nahrain University monitors the efficiency of the solar system through Excel program reports and performs continuous maintenance on these panels.



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[2] Energy & Climate Change (EC)

[2.16] Impact of Energy and Climate Change programs in supporting the Sustainable Development Goals (SDGs)

The university has undertaken a wide range of energy and climate-related programs that contribute significantly to the achievement of the 17 Sustainable Development Goals (SDGs). These initiatives demonstrate a strong commitment to reducing carbon emissions, enhancing energy efficiency, and fostering climate resilience. Key programs include:

- Installation of solar PV systems on building rooftops and open areas to produce renewable electricity and reduce dependency on fossil fuels.
- Implementation of a centralized Building Management System (BMS) to monitor and control HVAC, lighting, and water systems across campus facilities.
- Retrofit programs to replace conventional lighting with LED and energy-efficient equipment in academic and administrative buildings
- Carbon footprint assessments conducted annually
- Policies to reduce the use of vehicles on campus and encourage the use of bicycles

These efforts directly support SDGs 3, 4, 7, 9, 11, 12, 13, and 17, and also contribute indirectly to others, including:

- SDG 3 – Ensuring healthy living environments through improved air quality and indoor climate control



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- SDG 4 – Supporting quality education via comfortable and smart learning environments
- SDG 7 – Increasing the share of affordable, clean energy
- SDG 9 – Innovating with smart infrastructure
- SDG 11 – Building sustainable and low-carbon campuses
- SDG 12 – Promoting responsible energy consumption
- SDG 13 – Addressing climate change through mitigation and adaptation measures
- SDG 17 – Strengthening partnerships for sustainable energy development





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Waste (WS)



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[3] Waste (WS)

[3.1] (WS.1) 3R (Reduce, Reuse and Recycle) Program for University Waste





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Sorting plastic on campus



Al-Nahrain University follows a policy of sorting waste such as paper, plastic, electronic and chemical materials scattered on campus and recycling them in cooperation with a local institution affiliated with the capital Baghdad (Amanat



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Baghdad) and using them in the future to produce metals. Baghdad paper and used in the future to produce metal and paper.

Evidence: <https://sustainability.nahrainuniv.edu.iq/ar/node/137>



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[3] Waste (WS)

[3.2] Total volume of paper and plastic produced this year

Type of waste	amount (ton)		
	Produced		reduced
	Last year	This Year	
Plastic	36	40	6
Paper	144	160	50



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[3] Waste (WS)

[3.3] Total volume organic waste produced last year (ton)

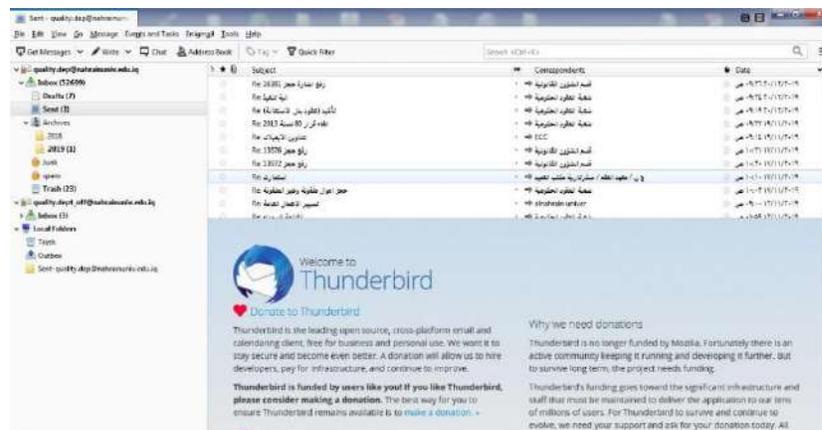
Type of waste	amount (ton)		
	Produced		reduced
	Last year	This Year	
Plastic	36	40	6
Paper	144	160	50



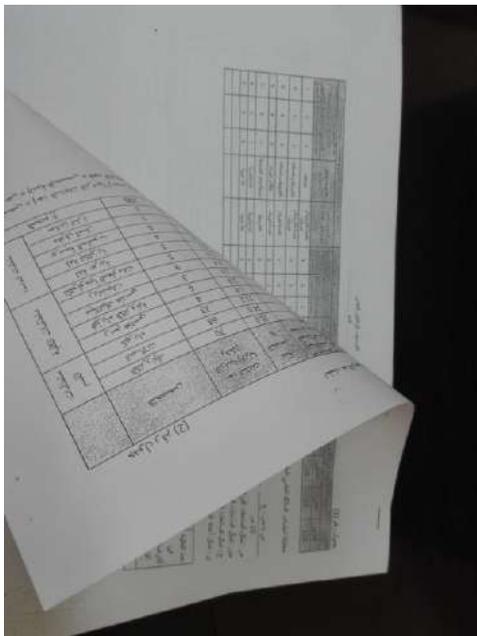
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[3] Waste (WS)

[3.4](WS.2) Program to reduce the use of paper and plastic on campus



Correspondence via internet



Print on two sides of the paper



Use a glass cup



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Al-Nahrain University supports systems that reduce paper use by:

- 1- Print on two sides of the paper.
- 2- Using of e-mail for correspondence over the Internet or via social media site.
- 3- Reuse of plastic bags and use a glass cup instead of a plastic cup to reduce waste.
- 4- Smart board.



smart board

Al-Nahrain University uses the electronic board (smart board) to give lectures to students, compared to traditional boards in most of the university's faculties.



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Additional evidence link :

<https://sustainability.nahrainuniv.edu.iq/ar/node/137>

Additional evidence link :

<https://sc.nahrainuniv.edu.iq/viewnews.php?art=1481&prn=15#news>

Additional evidence link :

<https://sc.nahrainuniv.edu.iq/viewnews.php?art=1383#news>



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[3] Waste (WS)

[3.5] Total volume organic waste produced this year (ton)

Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year	This Year		reused	down-cycled	up-cycled
- food waste	90	100	10	24		
- leaf, etc.	30	40	20	8		
organic	120	140	30	32		



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[3] Waste (WS)

[3.6] Total volume organic waste produced last year (ton)

Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year	This Year		reused	down-cycled	up-cycled
- food waste	90	100	10	24		
- leaf, etc.	30	40	20	8		
organic	120	140	30	32		



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[3] Waste (WS)

[3.7] Total volume organic waste treated (tons)

Type of waste	amuount (ton)			
	total	reduced	reused	recycled
organic	120	32	30	
- food waste	90	18	22.5	
- leaf	30	6	7.5	



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[3] Waste (WS)

[3.8] (WS.3) Organic waste treatment

The university implements a set of programs in treating organic waste, which has a significant impact on the environment and student awareness.

1- The university provides organic waste sorting boxes in addition to other waste boxes, which makes it easier for students and employees to sort waste properly.





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2- Implementing the compost program on campus, where food scraps are collected from student clubs or tree leaves and converted into fertilizer used in gardens. Recycling organic waste at Al-Nahrain University. The recycling process for organic waste consists of three stages:

The first stage: collecting plant and weed waste

The second stage: burial and fermentation of plant remains, tree leaves, and weeds

The third stage: obtaining organic fertilizer (peat moss).





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Al-Nahrain University formed a periodic committee to follow up on the implementation of the decomposing organic waste disposal program. The decomposition of plants and animals in all their solid and liquid states for use as fertilizer for trees and herbs on campus.

3-Organizing workshops and lectures to introduce students to the importance of organic waste and ways to manage it, which enhances environmental awareness on campus.

Evidence : <https://eng.nahrainuniv.edu.iq/single-blog.php?id=1269>

4-Encouraging students to participate in research projects related to organic waste management and ways to improve it.

5- The University of Nahrain has a cooperation program with the Baghdad Municipality to manage organic waste, and waste is disposed of within the University of Nahrain by transporting it outside the city to designated places in cooperation with the Capital Municipality.





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[3] Waste (WS)

[3.9] Total volume inorganic waste produced last year (tons)

Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year	This Year		reused	down-cycled	up-cycled
inorganic non-toxic	240	240	12	96		
- paper	144	144	7	50		
- soft plastic	48	48	3	40		
- hard plastic	36	36	2	6		
- etc	12	12				



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[3] Waste (WS)

[3.10] Total volume inorganic waste produced last year (tons)

Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year	This Year		reused	down-cycled	up-cycled
inorganic non-toxic	240	240	12	96		
- paper	144	144	7	50		
- soft plastic	48	48	3	40		
- hard plastic	36	36	2	6		
- etc	12	12				



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[3] Waste (WS)

[3.11] Total volume inorganic waste treated this year (tons)

Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year	This Year		reused	down-cycled	up-cycled
inorganic non-toxic	240	240	12	96		
- paper	144	144	7	50		
- soft plastic	48	48	3	40		
- hard plastic	36	36	2	6		
- etc	12	12				



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[3] Waste (WS)

[3.12] (WS.4) Inorganic waste treatment



Al-Nahrain University formed a periodic committee to follow up on the disposal of inorganic waste in all its cases and types.

The method of managing inorganic waste inside Al-Nahrain University is done through a biological incinerator. This incinerator specializes in destroying biological models, microorganisms, blood bottles, and others resulting from laboratory tests and laboratory analyzes, as they can be used in the future in energy production.

Evidence: <https://sustainability.nahrainuniv.edu.iq/ar/node/137>



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[3] Waste (WS)

[3.13] Total volume toxic waste produced this year (tons)

Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year	This Year		reused	down-cycled	up-cycled
toxic	1.5	1.5	0.1			
- electronics	0.5	0.5	0.01			
- lab. Chemicals	1	1	0.04			
- etc						



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[3] Waste (WS)

[3.14] Total volume toxic waste produced last year (tons)

Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year	This Year		reused	down-cycled	up-cycled
toxic	1.5	1.5	0.1			
- electronics	0.5	0.5	0.01			
- lab. Chemicals	1	1	0.04			
- etc						



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[3] Waste (WS)

[3.15] Total volume toxic waste treated last year (tons)

Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year	This Year		reused	down-cycled	up-cycled
toxic	1.5	1.5	0.1	0		
- electronics	0.5	0.5	0.01	0		
- lab. Chemicals	1	1	0.04	0		
- etc						



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[3] Waste (WS)

[3.16] (WS.5) Toxic waste treatment



Al-Nahrain University has formed a periodic committee to follow up on the management of toxic biological waste, which must be dealt sufficient care to ensure that it does not affect public health because it poses a health risk as a result of pollution.

The management method is carried out inside Al-Nahrain University through a thermal incinerator and takes place in two stages:

1- The first stage is the burning of toxic medical waste.



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2- The second stage is to burn the gases emitted from those wastes resulting from the first stage to bring out the damaged materials in a safe and environmentally friendly manner.

3-The Chemical, Biological, and Radiological Safety and Security Department of the Iraqi Ministry of Higher Education and Al-Nahrain University have been contracted to destroy and treat damaged and expired chemical and biological materials.



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[3] Waste (WS)

[3.17] (WS.6) Sewage disposal



Sewage is dealt with at Al-Nahrain University by draining this water through large underground pipes and connecting them with the public sewage pipes that were prepared by the Capital Municipality.



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[3] Waste (WS)

[3.18] (WS.7) Planning, implementation, monitoring and/or evaluation of all programs related to Waste Management through the utilization of Information and Communication Technology (ICT)

Stage	Activities/Programs	ICT Utilization	Evidence	Timeline	Responsible Team/Department
Planning	Develop 3R strategy, set targets for waste reduction	noun	Strategic plan documents	2020	Sustainable Development Unit, Quality Assurance Department
Implementation	Install recycling bins, initiate waste segregation	noun	waste segregation reports	2020	Services Division
Monitoring	Track waste collection and recycling rates	noun	Recycling rate reports, efficiency analytics	Continuously	Sustainable Development Unit, Quality Assurance Department
Evaluation	Assess effectiveness of 3R program	noun	Program evaluation reports, stakeholder feedback	Annually	Sustainable Development Unit, Quality Assurance Department



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- **Planning:** A comprehensive 3R strategy was developed and targets were set to reduce waste. A series of educational workshops were held to understand the mechanism of waste sorting on a regular basis.
- **Implementation:** Installing recycling bins throughout the campus and starting waste separation programs.
- **Monitoring:** Monitoring waste collection and recycling operations by specialized committees.
- **Evaluation:** The university evaluates the effectiveness of the 3R program.

Evidence: <https://sustainability.nahrainuniv.edu.iq/ar/node/137>



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[3] Waste (WS)

[3.19] Impact of Waste Management programs in supporting the Sustainable Development Goals (SDGs)

The university has undertaken a wide range of waste management programs that contribute significantly to the achievement of the **17 Sustainable Development Goals (SDGs)**. These initiatives reflect a strong institutional commitment to reducing environmental impact, promoting the circular economy, and fostering responsible consumption. Key programs include:

- Implementation of comprehensive waste segregation systems across campus, separating organic, inorganic, hazardous, recyclable, and e-waste at the source.
- Operation of composting facilities to process organic waste into fertilizer used for campus landscaping and urban farming projects.
- Organization of e-waste collection drives and disposal campaigns to manage electronic waste in accordance with environmental regulations.
- Campus-wide zero-waste campaigns, encouraging reduction, reuse, and recycling through awareness events, signage, and student-led initiatives.
- Ban or reduction of single-use plastics in canteens, vending machines, and university events, replacing them with reusable alternatives.
- Digitalization of administrative processes to reduce paper consumption and promote environmentally-friendly operations.
- Inclusion of waste management topics in the academic curriculum, research projects, and student theses focused on lifecycle analysis, waste-to-energy, and sustainable packaging.

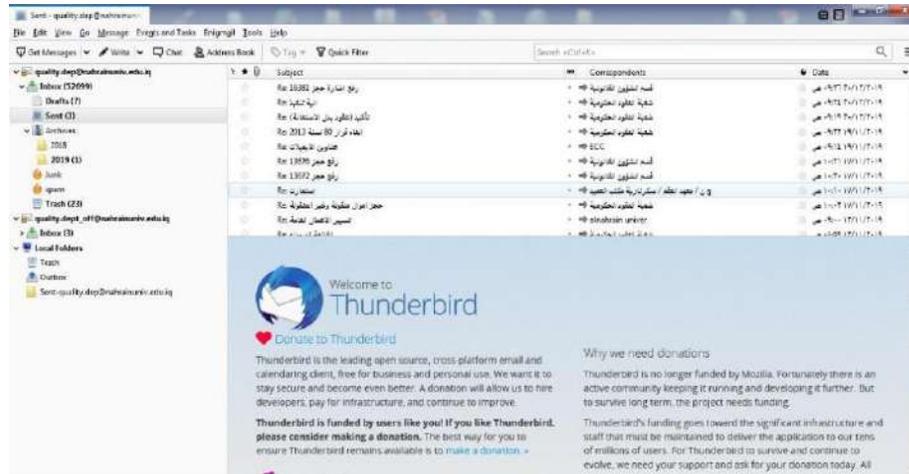


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Water (WR)



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[4] Water (WR)

[4.1] (WR.1) Water conservation program and implementation

Al-Nahrain University has several water conservation programs:

- 1- Al-Nahrain University exploits rain water and uses it to irrigate and wash cars by providing a large tank to store rainwater and distribute it through water channels on the campus for use at any time during the year.



Tank to store rainwater



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Water channels on the campus

- 2- The university buildings also have a separate sewage system for clean water (rain water). Thus rainwater is collected from the rooftops of the university buildings and then drained into local ponds and canals surrounding the buildings to irrigate the plants on the campus.





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- 3- Another system is the use of drift, which helps water flow to trees and grasses through channels to exploit rainwater at no cost on the Al-Nahrain University campus.



- 4- The lake was engineered to collect rainwater and excess water and reuse it to irrigate green spaces, reducing reliance on traditional water sources. We ensured that the project was implemented in accordance with safety and sustainability standards, ensuring it would be a



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permanent source of support for the university's environmental infrastructure.



Evidence link : <https://nahrainuniv.edu.iq/ar/node/27219>



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[4] Water (WR)

[4.2] (WR.2) Water recycling program implementation

Al-Nahrain University has a water recycling system by filtering the water from impurities and storing it in a tank for use in irrigation and car washing.



filters for water treatment



Tank of treated water



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Al-Nahrain University has a policy for water use, treatment, and the use of energy-saving faucets, in addition to conducting workshops to raise awareness among campus residents.

Evidence: <https://sustainability.nahrainuniv.edu.iq/ar/node/139>

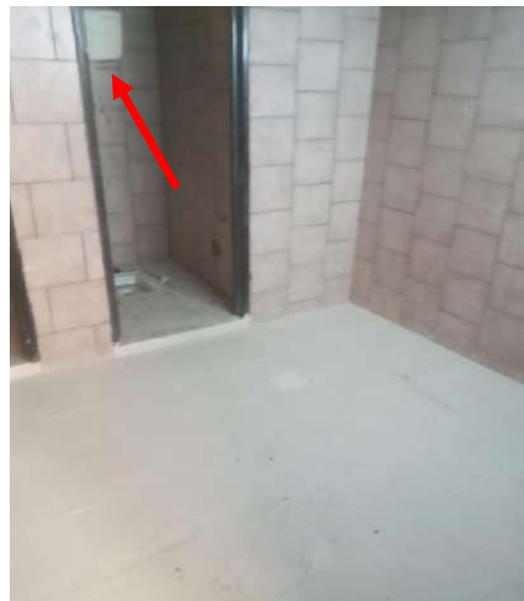


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[4] Water (WR)

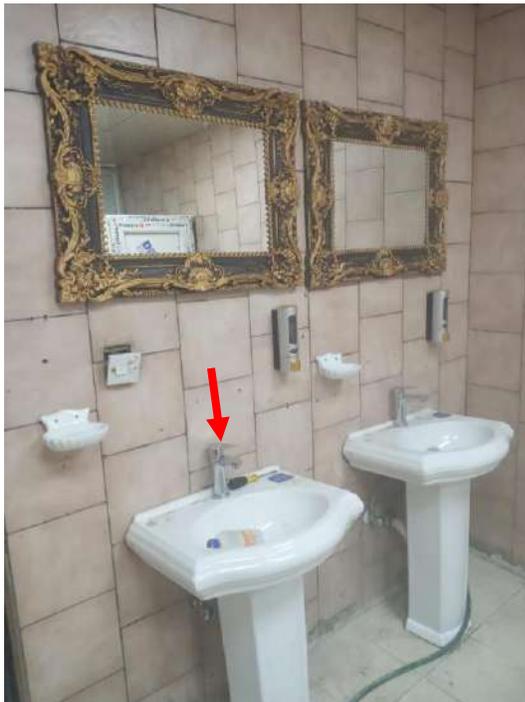
[4.3] (WR.3) Water efficient appliance usage

Al-Nahrain University uses water-saving measures in sanitation devices such as automatic control devices, low-flow toilets, and faucets with low floats to reduce the consumption of used water in addition to the use of treated water and rainwater to reduce the consumption of clean water.





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[4] Water (WR)

[4.4] (WR.4) Consumption of treated water

The university uses a reverse osmosis water purification system that works on direct and alternating current and works on solar energy and national electricity.

Filters are also used to treat and purify water for reuse, thus the university consumes more than 75% of the treated water and is consumed by students and staff.





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Al-Nahrain University has a policy for water use, treatment, and the use of energy-saving faucets, in addition to conducting workshops to raise awareness among campus residents.

Evidence: <https://sustainability.nahrainuniv.edu.iq/ar/node/139>



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[4] Water (WR)

[4.5] (WR.5) Water pollution control in campus area



Al-Nahrain University follows the policy of periodically checking the percentage of water pollution by conducting laboratory operations to separate polluting materials within the laboratories of the university through medical staff so that samples are collected and analyzed periodically to ensure the safety of water from pollutants.

Additional evidence link: <https://sustainability.nahrainuniv.edu.iq/ar/node/139>

Additional evidence link: https://brc.nahrainuniv.edu.iq/?page_id=5032&lang=en

Additional evidence link: https://brc.nahrainuniv.edu.iq/?page_id=5203&lang=en



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[4] Water (WR)

[4.6](WR.6) Planning, implementation, monitoring and/or evaluation of all programs related to Water Management through the utilization of Information and Communication Technology (ICT)

Stage	Activities/Programs	ICT Utilization	Evidence	Timeline	Responsible Team/Department
Planning	Develop water conservation strategy, set targets	Water usage analysis	Strategic plan documents	2020	Sustainable Development Unit, Quality Assurance Department
Implementation	Install water-saving fixtures, promote awareness	noun	awareness campaign reports	2020	Department of Construction and Projects, Sustainability Unit
Monitoring	water usage and savings	noun	automatic control devices, low-flow toilets, and faucets with low floats	Ongoing	University Services Division

- Planning: Develop a comprehensive water conservation strategy and set measurable targets for water savings.

- Implementation: Install water-saving fixtures (e.g., low-flow taps and toilets) across the campus and promote water conservation awareness through holding educational workshops for the campus community on the importance of water and ways to rationalize its consumption.

- Monitoring: Use water-saving devices and use rainwater and treated water for irrigation to save water usage.



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Evidence: <https://sustainability.nahrainuniv.edu.iq/ar/node/139>





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[4] Water (WR)

[4.7] Impact of Water Management programs in supporting the Sustainable Development Goals (SDGs)

The university has undertaken a wide range of water management programs that contribute significantly to the achievement of the 17 Sustainable Development Goals (SDGs). These initiatives reflect a strong institutional commitment to water conservation, sustainable usage, and climate resilience. Key programs include:

- Installation of rainwater harvesting systems on rooftops and open areas to collect and store rainwater for non-potable uses such as irrigation and toilet flushing.
- Establishing a lake on campus to address water shortages, support green spaces, and enhance the efficient use of natural resources.
- Use of water-saving fixtures (low-flow faucets, dual flush toilets, waterless urinals) across campus buildings to minimize daily water consumption.
- Awareness campaigns and workshops promoting water conservation habits among students, staff, and faculty.
- Collaborative water management research and policy development in partnership with public agencies, NGOs, and academic institutions.

These efforts directly support SDGs 3, 4, 6, 9, 11, 12, 13, 14, 15, and 17, and contribute indirectly to others, including:

- SDG 3 – Supporting public health through access to clean and safe water
- SDG 4 – Providing learning environments with reliable and sustainable water infrastructure
- SDG 6 – Ensuring availability and sustainable management of water and sanitation for all



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- SDG 9 – Implementing innovative water management infrastructure
- SDG 11 – Enhancing urban resilience through sustainable water practices
- SDG 12 – Encouraging responsible consumption of natural resources
- SDG 13 – Mitigating climate impact through adaptive water strategies
- SDG 14 – Preventing water pollution that impacts aquatic ecosystems
- SDG 15 – Protecting terrestrial ecosystems through integrated water management
- SDG 17 – Strengthening water-related partnerships for sustainable development





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Transportation (TR)



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[5] Transportation (TR)

[5.1] Number of cars actively used and managed by University

61 cars

[5.2] Number of cars entering the university daily

450 cars

[5.3] Number of motorcycles entering the university daily

10 motorcycles



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[5] Transportation (TR)

[5.4] (TR.1) The total number of vehicles (cars and motorcycles) divided by total campus population

$$\begin{aligned}\text{Formula: } & (5.1+5.2+5.3)/ (1.12+ 1.14) = (61+450+10)/ 11,465 \\ & = 521/13279 \\ & = 0.039\end{aligned}$$





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[5] Transportation (TR)

[5.5] (TR.2) Shuttle service





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- 1- Al-Nahrain University provides special buses to transport its students on campus, in addition to providing an external means of transportation for employees to their homes.
- 2- The university provides small government cars to perform their field work on campus.





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[5] Transportation (TR)

[5.6] Number of shuttles operated in your university

20

[5.7] Average number of passengers of each shuttle

20

[5.8] Total trips of shuttle services each day

2



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[5] Transportation (TR)

[5.9] (TR.3) Zero Emission Vehicles (ZEV) policy on campus

Al-Nahrain University is looking to buy hybrid cars in agreement with car manufacturers such as Toyota, which in turn helps reduce toxic emissions on campus.

Recently, the campus residents, employees, and faculty members have been directed to purchase Japanese and Korean hybrid cars to reduce the emission of combustion gases from gasoline and to preserve the campus environment.



Evidence: <https://sustainability.nahrainuniv.edu.iq/ar/node/140>



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[5] Transportation (TR)

[5.10] Average number of Zero Emission Vehicles (e.g. bicycles, cano, snowboard, electric car, etc.) on campus per day

Average number of Zero Emission Vehicles = 40



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[5] Transportation (TR)

[5.11] (TR.4) The total number of Zero Emission Vehicles (ZEV) divided by total campus population.

Formula: $(5.10)/(1.12+1.14)=$

$$40/13279=0.003$$



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[5] Transportation (TR)

[5.12] Total ground parking area

Total ground parking area = 16572.29 sq m



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[5] Transportation (TR)

[5.13] (TR.5) Ratio of parking area to total campus area

$$\begin{aligned} & \text{Formula: } ((5.12/1.5) \times 100\%) \\ & = ((16572.29 \text{ sq m}/765218.03 \text{ m sq}) * 100\%) \\ & = 0.0216 \end{aligned}$$



Southern campus in Al-nahrain University
Total area=11544 sq m



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Northern campus in Al-nahrain University
Total area=5028.29 sq m



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Evidence link: <https://n9.cl/my6x4>



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[5] Transportation (TR)

[5.14] (TR.6) Transportation program designed to limit or decrease the parking area on campus

Electronic car garage



- 1- Al-Nahrain University uses an electronic parking garage using electronic cards to reduce the parking area.
- 2- Designating specific student parking areas.
- 3- Encourage campus residents to walk.

Al-Nahrain University also created a new electronic park to

limit the parking space on campus, as shown in the picture below.



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[°] Transportation (TR)

[5.15] (TR.7) Number of initiatives to decrease private vehicles on campus





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Al-Nahrain University is working to reduce the number of vehicles on campus by implementing initiatives, including:



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1. Shuttle/bus campus inside campus
3. Walking
4. Car sharing
5. Free to rent bicycle on campus
6. motorcycles



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[5] Transportation (TR)

[5.16] (TR.8) Pedestrian path on campus





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Al-Nahrain University provides pedestrian paths with paths for people with disabilities and night lighting for campus residents.



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[5] Transportation (TR)

[5.17] Approximate daily travel distance of a vehicle inside campus only (in Kilometers)

Daily travel distance of a vehicle inside campus = 2 Kilometers



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[5] Transportation (TR)

[5.18] (TR.9) Planning, implementation, monitoring and/or evaluation of all programs related to Transportation through the utilization of Information and Communication Technology (ICT)

Stage	Activities/Programs	ICT Utilization	Evidence	Timeline	Responsible Team/Department
Planning	Assess transportation needs, plan shuttle routes	Transport planning	Needs assessment reports, route plans	Jan 2024-jan 2025	Transportation Office
Implementation	Implement process transportation	Tracking via mobile app	Service reports, app usage data	Jan 2024-jan 2025	Transportation Office
Monitoring	Track shuttle usage, optimize routes	Real-time tracking software by app	Usage analytics, optimization reports	Jan 2024-jan 2025	Transportation Office
Evaluation	Evaluate shuttle service efficiency	Transport analysis, user feedback surveys	Efficiency reports, survey results	Jan 2024-jan 2025	Transportation Office

- **Planning:** Assess the transportation needs of the campus community and plan efficient transportation routes to meet these needs. The transportation plan was defined by analysing off-campus traffic data to transport employees and planning daily to determine the best routes.
- **Implementation:** Transport services are deployed according to planned routes and Google Maps is used to get real-time bus transport information to provide real-time updates.
- **Monitoring:** Track shuttle bus usage and optimize routes based on usage data. Use Google Maps real-time tracking map to monitor shuttle bus locations.
- **Evaluation:** Evaluating the efficiency and effectiveness of shuttle services. Shuttle services are analysed through periodic meetings, presenting problems and proposing solutions based on user surveys through questionnaires.



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The path of the Al Shaab area line, starting from the university in the Al Jadriya area, reaching the Al Shaab area.





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[5] Transportation (TR)

[5.19] Impact of Transportation programs in supporting the Sustainable Development Goals (SDGs).

- 1- Development of integrated pedestrian pathways and dedicated bicycle lanes across campus to encourage non-motorized transport.
- 2- Operation of low-emission campus shuttle buses, including electric or hybrid vehicles, to reduce reliance on personal cars.
- 3- Provision of bicycle-sharing programs and supporting infrastructure (parking racks, lockers, repair stations) to enhance cycling convenience.
- 4- Implementation of a vehicle restriction policy, including license plate control or limited parking permits for students and staff.
- 5- Awareness campaigns and mobility education initiatives promoting safe, healthy, and sustainable transport behavior.
- 6- Real-time digital tracking tools to monitor shuttle schedules, optimize routes, and support user convenience (The path of the Al Shaab area line, starting from the university in the Al Jadriya area, reaching the Al Shaab area).





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These efforts directly support **SDGs 3, 4, 7, 11, 12, 13** and contribute indirectly to others, including:

- **SDG 3** – Reducing exposure to air pollution and promoting healthy, active lifestyles
- **SDG 4** – Ensuring inclusive access to education through safe and reliable campus transport
- **SDG 7** – Promoting the use of clean energy in transportation
- **SDG 11** – Building inclusive, safe, and sustainable urban mobility systems
- **SDG 12** – Encouraging responsible use of resources through shared mobility
- **SDG 13** – Lowering carbon emissions through low-impact transportation



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Education (ED)



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[6] Education & Research (ED)

[6.1] Number of courses/subjects related to sustainability offered

Number of courses (2024) = 225

Evidence Link: <https://sustaina.nahrainuniv.edu.iq/wp-content/uploads/2025/10/Environmental-Sustainability-Curricula-for-2025.pdf>



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[6] Education & Research (ED)

[6.2] Total number of courses/subjects offered

Total number=520

Number of colleges	Courses
medicine	14
Law	83
engineering	89
Sciences	45
political science	19
Information engineering	25
business Economic	24
Higher Institute for Infertility Diagnosis and ARTs	24
Biotechnology	96
Pharmacy	78
Higher Institute of Forensic Sciences	23
Total	520



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[6] Education & Research (ED)

[6.3] Total number of study program related to sustainability offered

No.	Colleges	Number of program
1	medicine	Bachelor of Medicine and Surgery
2	Law	Bachelor of Law
		Master of Law
		PHD of Law
3	Pharmacy	Bachelors of Pharmacy
4	Engineering	Bachelors of Computer Engineering
		Bachelors of Mechanical Engineering
		Bachelors of Chemical Engineering
		Bachelors of Laser and Optoelectronics
		Bachelors of Artificial Intelligence and Robotics Engineering
		Bachelors Electronics and Communication
		Bachelors Civil Engineering
5	Sciences	Bachelor of Physics
		Master of Chemistry
		PHD of Chemistry
6	Biotechnology	Bachelor of plant Biotechnology



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		Bachelor of Medical Biotechnology
7	political science	PHD of Political System and Public Policies
		Master of Political System and Public Policies
		PHD of International Politics
		Master of International Politics
		PHD of International Economic Relations
8	Information engineering	Bachelors of Information and Communications Engineering
		Bachelors of Computer Network Engineering
		Bachelors of Cyber security Engineering
		Bachelors of Automation and Artificial Intelligence Engineering
9	business Economic	BACHELOR OF ECONOMICS, INVESTMENT AND BUSINESS MANAGEMENT
		Bachelors degree in the Economics of Banking Management
		Bachelor of Accounting and Financial Control



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10	Higher Institute for Infertility Diagnosis and ARTs	Master of Applied Physiology
		PHD of Applied Physiology
		Master of Clinical Reproductive Physiology
		PHD of Clinical Reproductive Physiology



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[6] Education & Research (ED)

[6.4] (ED.1) The ratio of sustainability courses to total courses/subjects

The ratio= 43 %



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[6] Education & Research (ED)

[6.5] Total research funds dedicated to sustainability research (in US Dollars) (average per annum over the last 3 years).

Total research fund dedicated to sustainability research in 2022 =
29084 US Dollars

Total research fund dedicated to sustainability research in 2023 =
29824 US Dollars

Total research fund dedicated to sustainability research in 2024 =
30564 US Dollars

Total = 89472

The average annum last 3 years of research fund dedicated to
sustainability research =29824 US Dollars



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[6] Education & Research (ED)

[6.6] Total research funds (in US Dollars) (average per annum over the last 3 years).

Total research fund in 2022 = 38778 US Dollars

Total research fund in 2023 = 39766 US Dollars

Total research fund in 2024 = 40260 US Dollars

Total =118804

The average annum last 3 years of research fund = 39601 US Dollars



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[6] Education & Research (ED)

[6.7] (ED.2) The ratio of sustainability research funding to total research funding

$$\begin{aligned} (6.5 / 6.6) \times 100\% &= 29824 / 39601 * 100\% \\ &= 75\% \end{aligned}$$



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[6] Education & Research (ED)

[6.8] Number of lecturers and researchers on campus in one year period

No.	College Name	Civil Servant Lecturers	Permanent Non-Civil Servant Lecturers	Contract Lecturers (NIDK)	Total Lecturers
1.	College of Law	93	13	0	106
2.	College of Medicine	216	5	1	222
3.	College of Engineering	360	22	3	385
4.	College of Science	321	2	1	324
5.	College of Political Science	204	2	4	210
6.	College of Information Engineering	115	5	0	120
7.	College of Business Economics	79	7	0	86
8.	College of Biotechnology	84	0	0	84
9.	College of Pharmacy	66	1	0	67
10.	Higher Institute for	49	4	0	53



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	Infertility Diagnosis				
11.	Institute of Forensic Sciences	71	0	0	71
12.	Al-Nahrain Research Center for Renewable Energy	25	0	0	25
13.	Biotechnology Research Center	61	0	0	61
14.	University Presidency Lecturer	190	0	0	190
	Total	1934	61	9	2004



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[6] Education & Research (ED)

[6.9] Number of scholarly publications on sustainability published

Google Scholar search results for "al nahrain university & green & sustainability".

Articles (About 1,090 results (0.08 sec))

Any time
Since 2025
Since 2024
Since 2021
Custom range...

Sort by relevance
Sort by date

Any type
Review articles

include patents
 include citations

Create alert

[PDF] ... Relationship between institutional performance quality and achieving sustainable development indicators: an analytical survey research/al-nahrain University ... [PDF] researchgate.net
AH Jassam - 2025 - researchgate.net
... AlNahrain University, through a study of the relativity between sectors (efficiency, effectiveness, work, success, budget) and dimensions of development (environmental... a green economy ...
☆ Save Cite Related articles

[PDF] Impact of green transition on sustainable development in Saudi Universities-Applied Study College of Business Administration-Northern Borders University [PDF] uz.zgora.pl
AlH Ibrahim - 2024 - zbc.uz.zgora.pl
... the impact of green practices on sustainable development at NBU ... on the green practices and sustainability framework and ... relevant data on green practices in Saudi universities. By ...
☆ Save Cite Related articles All 4 versions

Promoting sustainability in bahraini primary
NS Alalawi, N Allani - ... to cultural heritage and sustainable urban ... , 2024 - books.google.com
... By promoting sustainability, enhancing environmentally responsible behavior, ... sustainability state of primary healthcare centers and assess users' perception and awareness of green ...
☆ Save Cite Cited by 1 Related articles

Do companies benefit from publishing sustainability-integrated reports? Evidence from the United Arab Emirates
... R Rafiq, OY Hassan, SH Al Suwaidi - ... & Sustainability: An ... , 2024 - emerald.com
... Sustainability reporting in the corporate setting is an important factor to improve a company's green initiatives and its relationship with investors and clients, in line with stakeholders' ...
☆ Save Cite Cited by 6 Related articles All 2 versions

Activate Windows
Go to Settings to activate Windows.

Number of events **scholarly publications on sustainability** in the academic year 2024.

A total of one year is 1090 **publications**.

evidence link :

https://scholar.google.com/scholar?as_ylo=2024&q=al+nahrain+university+%26+green+%26+sustainability&hl=en&as_sdt=0,5



University : Al –Nahrain University
Country : Iraq
Web Address : <https://nahrainuniv.edu.iq/>

[6] Education & Research (ED)

[6.10] (ED.3) Ratio of scholarly publications on sustainability to lecturers and researchers on campus in one year period

$$\begin{aligned}\text{Formula: } (6.9/6.8) &= \\ 1090/2004 &= \\ 0.54 &\end{aligned}$$



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[6] Education & Research (ED)

[6.11] (ED.4) Number of events related to sustainability. (average annually for the past 3 years)

Total number= 491 events





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Number of events related to environment and sustainability hosted or organized by the University in the academic year 2022-2024

Total number of sustainability/environment related events in:

2022 : 74

2023 : 216

2024 : 201

A total average per annum over the last 3 years of **163 events** .



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[6] Education & Research (ED)

[6.12] (ED.5) Number of activities organized by student organizations related to sustainability per year

Number of student organizations related to sustainability =7

1- The campaign to plant a million trees

Al-Nahrain University launches continuous campaigns that include agricultural activities with the participation of university students who have an active role in these campaigns. These campaigns include planting a group of seedlings and roses.





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2- Organized agricultural awareness campaigns

Al-Nahrain University joins organized awareness campaigns. These campaigns include planting seedlings and flowers on the university campus. These campaigns aim to spread environmental and service awareness among students.



3- Dakhka Organization is a support group that calls for equality and support for students with low incomes Organized annually to support students, meet their needs and contribute to building a green campus in cooperation with the President of Al-Nahrain University.



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Evidence link: https://web.facebook.com/grouplaugh/?_rdc=1&_rdr

4- The Nahrain Blowers Organization is an annual organization led by Al-Nahrain University students to welcome a new academic year by launching a large





University : Al –Nahrain University
Country : Iraq
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number of blowers, where a large part of this festival goes as humanitarian aid.

Evidence link: <https://nahrainuniv.edu.iq/ar/node/25623>

5- A student organization consisting of representatives from all faculties of Al-Nahrain University participates in internal and external activities related to agriculture, industry, art and annual sports competitions with government ministries and universities.

6- (Open Day), which is an entertainment day every year, interspersed with extracurricular events and activities for all university students for morning and evening studies. The events presented by the university students varied between entertainment competitions, drawing and painting displays, in addition to popular food competitions, planting and landscaping the college gardens and yards, and cleaning and maintaining the college corridors.

Evidence link:
<https://eco.nahrainuniv.edu.iq/posts/f3b8b2ef-e77b-4c42-a266-5871153025fc/>



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7- The second annual festival of the College of Business Economics on environmental sustainability, where the College of Business Economics, in cooperation with the Nakhil Watan Women’s Team for Culture and Sustainable Development, organized a bicycle competition in the gardens of Al-Nahrain University with the participation of university students. Prizes were presented to the first three winners in the competition, and all participants were honored in appreciation and recognition of their efforts in the competition.

Evidence link: <https://eco.nahrainuniv.edu.iq/posts/1d5e50d0-9bdf-41a2-9585-84747f25b269/>



University : Al –Nahrain University
Country : Iraq
Web Address : <https://nahrainuniv.edu.iq/>

[6] Education & Research (ED)

[6.17] (ED.8) Number of cultural activities on campus





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Country : Iraq
Web Address : <https://nahrainuniv.edu.iq/>

Total number of **cultural activities on campus** organized by the University : more than 10 **events**

The Faculty of Business Economics at Al-Nahrain University has held a number of workshops, seminars, programs and volunteer activities on campus to achieve the following:

A- Poverty eradication

- 1- Providing financial aid to people with limited income
- 2- Campaigns to visit the nursing home
- 3- Blood donation campaigns

B- Zero Hunger

- 1- Providing a food basket for people with limited income for employees and students
- 2- Organizing a food exhibition to support the national product

C- Ensuring a healthy life

- 1- Visiting hospitals to provide logistical support to health personnel
- 2- Blood donation campaigns and the provision of sterilization supplies
- 3- Encouraging the establishment of sports activities inside the university campus in addition to the use of a specific policy to prevent smoking

D- Quality of education

- 1- Organizing electronic seminars and workshops targeting general societal groups and providing them with appropriate technical and professional skills

E- Clean energy



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- 1- Replacing the light bulbs with others that work with economic lighting technology
- 2- Organizing seminars and lectures on the activation of renewable energy

Evidence: https://web.facebook.com/media.eng87/photos/?ref=page_internal&_rdc=1&_rdr

Evidence: <https://nahrainuniv.edu.iq/ar/node/3697>

Evidence: https://eco.nahrainuniv.edu.iq/posts/?cat_id=%7B%22label%22%3A%22%D9%88%D8%B1%D8%B4+%D9%88+%D9%86%D8%AF%D9%88%D8%A7%D8%AA%22%2C%22value%22%3A%22771ba529-214e-4ac9-a5fd-5b2b2b868fb7%22%7D&sec_id=%7B%22label%22%3A%22%D9%83%D9%84%D9%8A%D8%A9+%D8%A7%D9%82%D8%AA%D8%B5%D8%A7%D8%AF%D9%8A%D8%A7%D8%AA+%D8%A7%D9%84%D8%A7%D8%B9%D9%85%D8%A7%D9%84%22%2C%22value%22%3A%227b286b30-c678-4323-b584-27c3e3f49233%22%7D



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[6] Education & Research (ED)

[6.18] (ED.9) Number of university program(s) with international collaborations

Number of university program =7

1- Al-Nahrain University has developed an evaluation system for the staff and faculty members through an electronic form based on the following indicators:

- 1- Teaching efficiency and number of courses
- 2- Scientific activity, which represents published research
- 3- Participation in international conferences, seminars, and workshops
- 4- Participation in the service of state institutions
- 5- Job commitment, job skills, and participation in volunteer work



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وزارة التعليم العالي والبحث العلمي
جهاز الاعتراف والتقييم العلمي / قسم تقييم الأداء
نظام تقييم الاداء الإلكتروني

اسم المستخدم:
كلمة المرور:
 تذكرني في المرة القادمة

عنوان الاتصال سيتم الاحتفاظ به في حال تم استخدام النظام بطريقة تخالف التعليمات

[هل نسيت كلمة المرور؟ اضغط هنا](#)

2- Helpdesk group for E-Learning

Switching to E-Learning. This mission has as objective to maintain the relationship with the students locked down home and reassure them as well as their families about the fate of the courses and the diplomas. Nevertheless, professors were not ready to switch to total distance learning and some were completely not familiar with eLearning platforms and or software.

For this, the Pedagogic Innovation Cell of Al-Nahrain University of worked very hard to identify the needs very quickly and to organise distance lectures to professors for eLearning discovering and mastering. An e-learning unit were created for supporting teachers and students as well, through online workshops (Zoom, Google Meet), emergency e-mails, e-learning website, operation rooms, social media such as telegram groups, and through the classes (Google Classroom & Moodle). A google classroom for students was created for online discussion and immediate supporting with some teaching manuals as well as the recorded training materials. The used applications and tools were imposed to teachers to reduce technological constraints or teachers/students apprehension.



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دورة تنمية مهارات التعلم الإلكتروني للطلاب الجامعي
(This class is intended for technical support to the students & tra...
Class code gjvzly7

Meet
Join
Visible to students

Announce something to your class

Dr. Shaima Safa aldin posted a new question: (ممكنه كندية استفسارك للحصول على الدعم الفني)
Feb 14 (Edited Feb 22)

Helpdesk group for E-Learning (Al-Nahrain University, Iraq)

evidences link:

- <http://e-learning.nahrainuniv.edu.iq/ar>
- <https://mdl.coie-nahrain.edu.iq/course/index.php>



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The screenshot displays a Google Classroom interface with several course cards. The cards are arranged in two rows. The top row includes '6th Stage Final Exams', '1st Stage Final Exams', 'SPSS (Ph.D.)', and 'Research Design (M....)'. The bottom row includes '(Higher Diploma) Pos...', 'Postgraduate (Ph.D.) Physiology Dep.', 'Postgraduate (Ph.D.) Pathology&Forensic Medicine Dep.', and 'Postgraduate (Ph.D.) Microbiology Dep.'. Below the classroom interface is an edpuzzle content player. The player shows a 'Basic account' section with a 'Check' button. Below this, there is a list of four logic design lectures with their durations and titles:

Lecture Title	Duration
Lecture 8 - VHDL and Verilog HDL	1:00:01
Lecture 7 - Sequential Logic Circuits	1:07:05
Lecture 6 - Flip-Flops, Registers and Memory	1:08:47
Lecture 5 - Multiplexer and Demultiplexer	33:04



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The screenshot shows the Al-Nahrain University E-Learning System interface. At the top, there is a header with the university's logo and name in Arabic and English. Below the header, the main title is "Department of Networks Engineering". A breadcrumb trail indicates the current location: "Dashboard > Courses > College of Information Engineering > 2019-2020 > Department of Networks Engineering". A "Manage" button is visible in the top right corner. The main content area is titled "Course categories:" and shows a breadcrumb trail: "College of Information Engineering / 2019-2020 / Department of Networks Engineering". Below this, there is a search bar labeled "Search courses:" with a "Go" button and a help icon. A pagination control shows "1 2 +". The course categories listed are:

- ▶ First Year
- ▶ Second Year
- ▶ Third Year
- ▶ Fourth Year

(Online Teaching Methods – Zoom, Google Meet, EdPuzzle, Google Classroom & Moodle)



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e-learning Home Operations Rooms Exams Table 2nd sem-tables Emergency emails

1st Semester 2nd Semester

Law Medicine Engineering Science Political Science

College of Information Engineering

COLLEGE OF BUSINESS ECONOMICS

Faculty of medicine

Section

- Any -

stag

- Any -

class typ

- Any -

Toda

- Any -

Instructor's nam

schedules



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Link	until the hour	from the hour	Today	class type	Subject Name	Instructor's name	stage	Section	the college
	12:00	9:00	Wednesday	theoretical	aaa	text2	The first stage	physics department	College of Science
	12:00	9:00	Tuesday	my work	aaa	text2		Computer engineering department	College of Engineering
	12:00	9:00	Monday	theoretical	aaa	text2	level five		faculty of Pharmacy
	12:00	9:00	Sunday	my work	aaa	text2	The fourth stage	Department of Plant Biotechnology	College of Biotechnology
	12:00	9:00	Saturday	theoretical	aaa	text2	The second phase	Department of Economics of Investment and Resources Management	College of Business Economics
	12:00	9:00	Monday	my work	aaa	text2	The second phase	Systems Engineering Department	Faculty of Information Engineering
	12:00	9:00	Thursday	theoretical	aaa	text2	The first stage	Department of International Politics	Faculty of Political Science
	12:00	9:00	Wednesday	my work	aaa	text2		Computer Science Department	College of Science

Supporting Tools (E-learning website, operations rooms, emergency e-mails)

<https://e-learning.nahrainuniv.edu.iq/>

3- Virtual Workshop, symposium, & conference

Many workshops, symposium & conferences have been held virtually, and below are some of them:

1. An electronic practical symposium entitled Errors and traps in laparoscopic cholecystectomy:

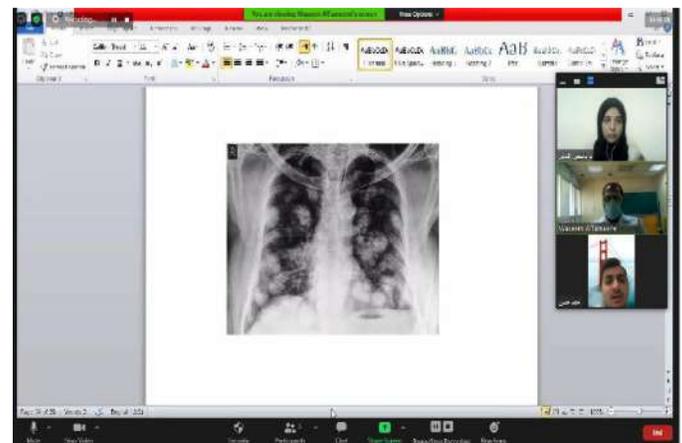
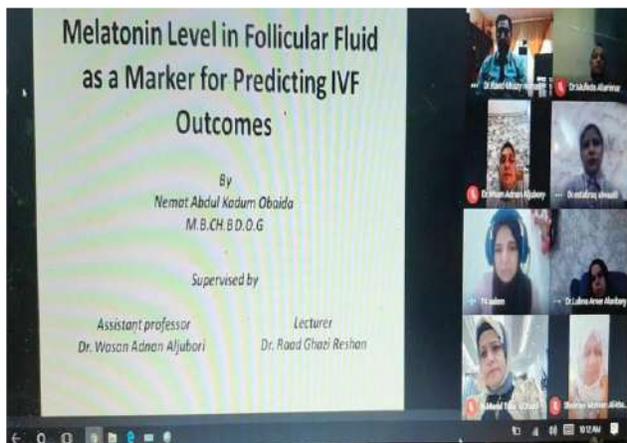
The Surgery Branch of the College of Medicine at Al-Nahrain University held an electronic scientific symposium on the errors and traps in laparoscopic cholecystectomy, through the zoom application, with the participation of several faculty members in the college and several doctors from the Imam Al-Kazimin (P) Medical City.

The symposium, which was given by Dr. Bashar Abbas Abdel Hassan, aimed to identify the traps and mistakes that the surgeon makes during the procedure for removing the gallbladder bag.



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The workshop included several axes, including a review of mistakes and traps that the surgeon may fall into during laparoscopic excision of the gallbladder bag, its side effects as it is one of the most common operations, and the new surgical methods and means through which mistakes can be avoided.





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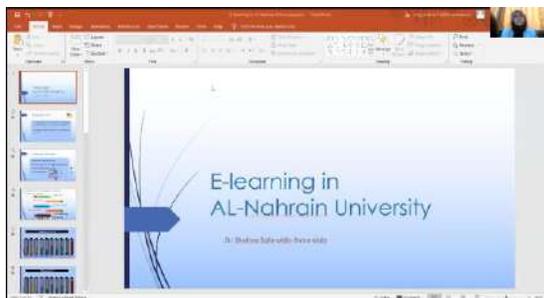
2- Annual electronic conference under the slogan of education and electronic platforms in Iraq.

The Continuing Education Center at Al-Nahrain University held an annual electronic conference under the title Education and Electronic Platforms in Iraq.

The Director of the Center said that the conference aims to unify efforts and knowledge integration between relevant institutions in Iraq, neighboring countries and the world, and to exchange and update information to enhance scientific contributions to the development of continuing education tools and related axes, especially the e-learning axis.

The Director of the Center stressed the importance of higher education in Iraq through academic and continuing education centers to lay the correct foundations for the concepts of modern society and look forward with great optimism for the coming period.

The conference included several axes, the axis of continuing education (visions and horizons), the axis of education and electronic platforms (academic future), the axis of languages and skills development, the axis of modern teaching methods and teaching aids, the administrative and legal axis in higher education, and the axis of psychological and social sciences.





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3- Training workshop entitled (The latest procedural methods in managing the Google Workspace platform):

The Continuing Education Center / Al-Nahrain University held a training workshop entitled (The latest procedural methods in managing the Google Workspace platform) for platform managers in all colleges, and on the Google Meet video platform, in preparation for the new school year.



4- First applied research conference ARIE 2021 at COIE:

Under the patronage of His Excellency the Minister of Higher Education and Scientific Research, Prof. Dr. Nabil Kazem Abdel-Saheb, and under the supervision of the President of Al-Nahrain University, Prof. Dr. Ali Abdel Aziz Al-Shawi, under the slogan (Scientific Research – Continuing Despite Challenges).

The Faculty of Information Engineering was inaugurated this morning, Tuesday 29-6-2021, in cooperation with the Islamic University of Lebanon.

5- Al-Nahrain University, in cooperation with Damas Scientific Office, organizes a lecture entitled “Role of Ultrasound in prediction of endometrial receptivity”:



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تحت رعاية السيد رئيس جامعة النهرين الأستاذ الدكتور
محمد صاحب مهدي المحترم
وبإشراف السيدة عميدة المعهد العالي لتشخيص العقم و
التقنيات المساعدة على الأنجاب الأستاذ المساعد الدكتور
منال طه العبيدي المحترمة
و بالتعاون مع مكتب داماس العلمي - الوكيل الحضري
لشركة أناس

يدعوكم المعهد العالي لتشخيص العقم و التقنيات
المساعدة على الأنجاب لحضور محاضرة بعنوان
**Role Of Ultrasound in prediction of endometrial
receptivity**

وذلك في يوم **الجمعة المصادف 2020-4-24** في تمام
الساعة العاشرة - الحادية عشر صباحا بتوقيت العراق

Dr.Sonal Panchal

- Consultant sonography specialist at Dr.Nagor's Institute for Infertility and IVF, Ahmedabad.
- Professor, Dubrovnik International University, Croatia.
- Master of Ultrasound in Obstetrics and Gynecology, Ian Donald Inter-university School of Medical Ultrasound, completed in January 2019.
- Faculty Ian Donald Master's Courses in Ultrasound in OBGyn. And Master's courses in Human Reproduction.



Webinar Registration/viewer link -
www.streamgo.in/webcme-drsonalpanchal

6- Final projects that are submitted using the e-learning platform



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2

Al-Nahrain University
College of Information Engineering
E-Learning System
جامعة النهرين - كلية هندسة المعلومات

Final Year Project 2019/2020

Dashboard My courses Final Year Project 2019/2020 Final Report Submission-After Debate Final Report Submission

Final Report Submission

This is the final report submission portal. Read carefully:

1. You should modify your report according to the Examining Committee notes and instructions.
2. Sign your report from your supervisor (certificate)
3. Sign your report from the Examining committee (certificate)
4. Upload the report (with signed certificates) in the same naming style HERE before the deadline (22/8/2020 at 23:59).
5. Make 2 copies of your project (with CD) to be submitted to the College library and University library NOT after 25/8/2020.

FINAL REPORT SUBMISSION-BEFORE DEBATE

Upload your Final Report HERE

Dear All,
Submit your project report in the form of one PDF file. The name of the file should be like this:
FYP_2019-2020_Studentname_Projectshorttitle
The file should be signed by your supervisor, so make sure you send your report to him/her before deadline to get their (electronic) signature.
You have 3 attempts ONLY to update your file before the deadline (16/8/2020 at 23:59).

Select	User picture	First name / Surname	Email address	Status	Grade	Edit	Last modified (submission)	File submissions
<input type="checkbox"/>		زكريا يحيى علي zakria yahya ali	zakriabial90@gmail.com	Submitted for grading	Grade	Edit	Monday, 17 August 2020, 12:54 PM	FYP_2019-2020
<input type="checkbox"/>		نورا باعد nuha Baaed khaled	nuharbaaed97@gmail.com	Submitted for grading	Grade	Edit	Sunday, 16 August 2020, 6:41 PM	FYP_2019-2020
<input type="checkbox"/>		باسم محمد Basim mohsin sandullah	basim.mohsin9@gmail.com	Submitted for grading	Grade	Edit	Sunday, 16 August 2020, 11:03 PM	FYP_2019-2020
<input type="checkbox"/>		ياسين جاسم Yassin Jassem	yassinjassem9831@gmail.com	Submitted for grading	Grade	Edit	Sunday, 16 August 2020, 5:17 PM	FYP_2019-2020

4- Some teaching videos for teachers and students were published on YouTube channel:



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https://www.youtube.com/channel/UCCVuhVOfKgt4athkA_B8VUQ/p/laylists

5- Some online Quizzes:

Choose the correct answer:

The energy transfer by heat where the work done is 0.0027 Joule. 1 point

- 2.53 erg
- 25.3erg
- 270000erg
- 0.00027erg

Gamma ray has. 1 point

- wavelength larger than IR
- energy less than visible
- frequency larger than X-ray

Next Page 1 of 5

Back Next Page 2 of 5

Never submit passwords through Google Forms.

6- Virtual workshop of setup a classroom & creating online quiz in a Google G-Suite platform.

The teachers' guide was prepared by the Higher Institute for Infertility Diagnostics at Al-Nahrain University “Google Classroom”



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7- Tealemoo web site

<https://tealemoo.com/wp-content/uploads/2020/04/%D8%AF%D9%84%D9%8A%D9%84-%D8%B4%D8%A7%D9%85%D9%84-%D8%B9%D9%86-%D9%81%D8%A7%D9%8A%D8%B1%D9%88%D8%B3-%D9%83%D9%88%D8%B1%D9%88%D9%86%D8%A7.pdf>



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[6] Education & Research (ED)

[6.19] (ED.10) Number of sustainability community services project organised and/or involving students

Project type	Project name	number of projects	participants	Project area
conference	Student Research on Sustainability	5	61	SI, ED
Courses and subjects	Total Quality Management	6	88	SI, EC, WS, WR, TR, ED
Workshop	Waste treatment	5	89	WS



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[6] Education & Research (ED)

[6.20] (ED.11) Number of sustainability-related startups

Number of sustainability – related startups = 7

1- Scientific Advisory Office at the College of Science, Al-Nahrain University



Evidence link: https://sc.nahrainuniv.edu.iq/viewpage.php?page_id=8

2- The legal advisory office at the College of Science, Al-Nahrain University



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COUNTRY : IRAQ
WEB ADDRESS : [HTTPS://NAHRAINUNIV.EDU.IQ/](https://NAHRAINUNIV.EDU.IQ/)



Evidence link: https://web.facebook.com/alnahrain.law.advisory/?_rdc=1&_rdr

3- Engineering Consulting Office at the College of Science, Al-Nahrain University



Evidence : https://mobile.facebook.com/profile.php?id=100063959866056&_rdc=1&_rdr

4- Al-Nahrain University owns many greenhouses and produces large quantities of ornamental trees, various outside trees, and many types of roses, and distributes them to universities and most departments of the Iraqi state.



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5- Al-Nahrain University produce honey and quantities of it, and the university sells honey on campus.

owns apiaries to produce large



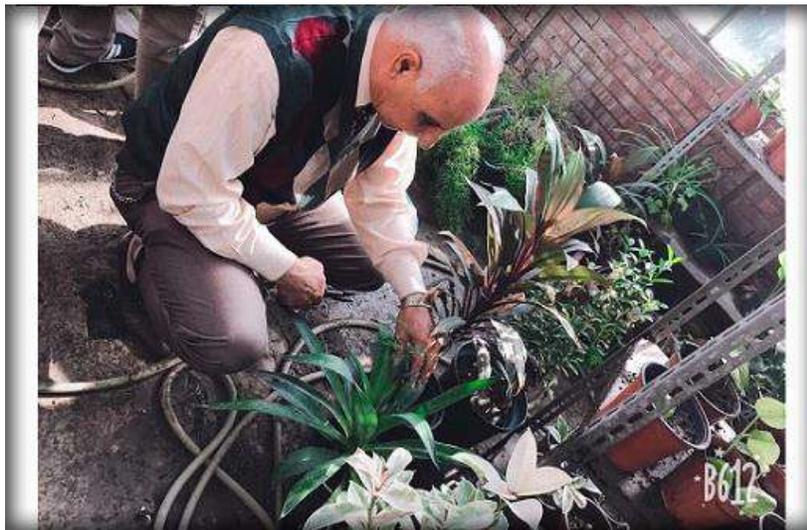
The university's apiaries

6- Cultivation of different types of medicinal and ornamental plants within the greenhouse atmosphere in the winter season, as he urged field work, which is



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COUNTRY : IRAQ
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a scientific achievement in keeping pace with global development in the cultivation of a group of medicinal herbs in an environment other than their natural environment, as well as the cultivation of ornamental plants in greenhouses designated for the growth of plants in a way It is functional and aesthetic. It is mentioned that the completion of the work in building the greenhouse and providing the appropriate environment for the growth of young plants under the influence of a flashing electric lamp and appropriate humidity and ventilation in accordance with this design, which aims to provide plants with the light and heat necessary for growth, and give the house a beautiful natural luster and create suitable ventilation for plants and benefit It is for research and aesthetic purposes.





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7- The Million Trees Project is carried out annually by Al-Nahrain University during the summer and winter seasons, with the participation of students and all campus residents





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[6] Education & Research (ED)

[6.21] Total number of graduates with green jobs (for the last 3 years) (new)

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
2021/2022	Civil Engineering	20	8	Project Management	Alumni Survey
2021/2022	Mechanical Engineering	37	17	Renewable Energy Engineer	Alumni Survey
2021/2022	Chemical Engineering	24	1	Product development and analysis	Alumni Survey
2021/2022	Engineering Architectural	20	2	Sustainable architectural designer	Alumni Survey
2021/2022	Biotechnology	88	14	Environmental technologies	Alumni Survey
2021/2022	Business Economics	156	23	sustainable economy	Alumni Survey
2022/2023	Civil Engineering	129	0	Project Management	Alumni Survey
2022/2023	Mechanical Engineering	49	1	Renewable Energy Engineer	Alumni Survey
2022/2023	Chemical Engineering	36	3	Product development and analysis	Alumni Survey
2022/2023	Engineering Architectural	29	1	Sustainable architectural designer	Alumni Survey
2022/2023	Biotechnology	97	5	Environmental technologies	Alumni Survey
2022/2023	Business Economics	132	3	sustainable economy	Alumni Survey



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COUNTRY : IRAQ
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2023/2024	Civil Engineering	54	6	Project Management	Alumni Survey
2023/2024	Mechanical Engineering	22	15	Renewable Energy Engineer	Alumni Survey
2023/2024	Chemical Engineering	26	1	Product development and analysis	Alumni Survey
2023/2024	Engineering Architectural	36	2	Sustainable architectural designer	Alumni Survey
2023/2024	Biotechnology	93	6	Environmental technologies	Alumni Survey
2023/2024	Business Economics	155	10	sustainable economy	Alumni Survey
Total			118		

Our university has introduced new academic programs centered around green jobs, aimed at equipping students with the knowledge and skills essential for contributing to fields like sustainability, renewable energy, natural resource management, and energy efficiency. This initiative enhances their ability to engage in the green economy and support environmental protection. Additionally, the university conducts an annual follow-up survey with graduates, and the results from those who secured green jobs are presented in the table above.



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COUNTRY : IRAQ
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[6] Education & Research (ED)

[6.22] Total number of graduates (for the last 3 years)

Academic Year	Faculty	Total Graduates
2021/2022	Medicine	260
2021/2022	Law	150
2021/2022	Engineering	265
2021/2022	Sciences	179
2021/2022	Political science	155
2021/2022	Information engineering	74
2021/2022	Business Economic	124
2021/2022	Higher Institute for Infertility Diagnosis and ARTs	29
2021/2022	Biotechnology	76
2021/2022	Pharmacy	82
2022/2023	Medicine	179
2022/2023	Law	85
2022/2023	Engineering	276
2022/2023	Sciences	115
2022/2023	Political science	81
2022/2023	Information engineering	59



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 COUNTRY : IRAQ
 WEB ADDRESS : [HTTPS://NAHRAINUNIV.EDU.IQ/](https://NAHRAINUNIV.EDU.IQ/)

2022/2023	Business Economic	113
2022/2023	Higher Institute for Infertility Diagnosis and ARTs	79
2022/2023	Biotechnology	64
2022/2023	Pharmacy	80
2023/2024	Medicine	191
2023/2024	Law	135
2023/2024	Engineering	332
2023/2024	Sciences	146
2023/2024	Political science	137
2023/2024	Information engineering	86
2023/2024	Business Economic	163
2023/2024	Higher Institute for Infertility Diagnosis and ARTs	24
2023/2024	Biotechnology	89
2023/2024	Pharmacy	127
	Total	3955



University : Al –Nahrain University
Country : Iraq
Web Address : <https://nahrainuniv.edu.iq/>

[6] Education & Research (ED)

[6.23] (ED.12) Percentage of number of graduates with green jobs (for the last 3 years)

$$((6.21/6.22) \times 100\%)$$

$$118/3955 \times 100\%$$

$$2.98\%$$

The total number of graduates in all university specializations is
3955

While the number of those with green professions only is 118

Although Nahrain University has graduates working in jobs that
are not green.



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COUNTRY : IRAQ
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[6] Education & Research (ED)

[6.24](ED.13) Availability of units or offices that coordinate or are related to sustainability

Al-Nahrain University seeks to build a supportive environment for education and achieve sustainable development goals by

1- Establish a Sustainable Development Unit at the university that works to monitor progress and achieve sustainable development policies and provide analysis of results in all aspects of the university concerned with sustainability, which are represented in research publications, workshops, conferences, training, and research cooperation.

2-The Tree Planting Unit, affiliated with the university presidency, has been established with the mission of supporting green spaces and developing agricultural plans aimed at expanding the greenery within the university.

Evidence : <https://api.eco-nahrainuniv.a2hosted.com/api/storage/files/posts/9432ec88-13ce-4264-87cc-e113fea5980c.pdf>

Evidence : <https://nahrainuniv.edu.iq/ar/node/8761>

Evidence: https://web.facebook.com/people/%D8%A7%D9%84%D8%A7%D8%B3%D8%AA%D8%AF%D8%A7%D9%85%D8%A9-%D8%A7%D9%84%D8%AE%D8%B6%D8%B1%D8%A7%D8%A1-%D9%84%D8%AC%D8%A7%D9%85%D8%B9%D8%A9-%D8%A7%D9%84%D9%86%D9%87%D8%B1%D9%8A%D9%86/61559844375504/?_rdc=1&_rdr



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[6] Education & Research (ED)

[6.25] (ED.14) Planning, implementation, monitoring and/or evaluation of university governance through the utilization of Information and Communication Technology (ICT)

- **Planning** :The university follows an annual plan to produce all research, especially those concerned with sustainable development, to monitor the publication outputs and the implementation period
- **Implementation**: Identifying the specializations that serve the goals of sustainable development and that focus on local and global projects
- **Monitoring**: Following up on the progress of published research and its outputs
- **Evaluation**: Research Evaluation Committee and Scientific Promotion Committees in the university formations and for all specializations published within sustainable development research and measuring the extent of the research impact



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[6] Education & Research (ED)

[6.26] Impact of Education and Research programs in supporting the Sustainable Development Goals (SDGs).

The university has undertaken a wide range of education and research programs that contribute significantly to the achievement of the 17 Sustainable Development Goals (SDGs). These initiatives demonstrate a strong institutional commitment to sustainability integration across teaching, learning, innovation, and community engagement. Key programs include:

- Integrating sustainability topics into the curricula of various university disciplines, including environmental sciences, engineering, economics, public health, social sciences, etc.
- Developing interdisciplinary courses focusing on climate change, energy transition, economics, and sustainable development.
- The university has specialized research centers and laboratories to address key sustainability challenges such as renewable energy and biodiversity.
- Annual publication of sustainability-related research outputs, including publication in peer-reviewed scientific journals, books, and innovative patents.
- Providing sustainability-focused scholarships across the university's colleges, including for Iraqi and international students.
- Organization of conferences, workshops on SDG-related themes to foster knowledge exchange and interdisciplinary dialogue.
- Implementing environmental awareness campaigns by student teams in collaboration with university staff to raise awareness among students, staff, and the wider campus community.
- Building partnerships with international academic networks to expand research collaboration and share best practices in education for sustainable development.



UNIVERSITY : AL –NAHRAIN UNIVERSITY
COUNTRY : IRAQ
WEB ADDRESS : [HTTPS://NAHRAINUNIV.EDU.IQ/](https://NAHRAINUNIV.EDU.IQ/)

These efforts directly support **SDGs 3, 4, 5, 6, 7, 9, 11, 12, 13, 15, and 17**, and contribute indirectly to the remaining goals, including:

- **SDG 3** – Enhancing health and well-being through applied public health research
- **SDG 4** – Providing quality education that empowers learners for sustainability
- **SDG 5** – Promoting gender equality through inclusive academic opportunities
- **SDG 6** – Advancing water research and infrastructure innovation
- **SDG 7** – Driving clean energy solutions through academic inquiry
- **SDG 9** – Supporting innovation and sustainable industrialization
- **SDG 11** – Enabling sustainable urban planning through applied research
- **SDG 12** – Encouraging responsible production and consumption patterns
- **SDG 13** – Promoting climate science and adaptation strategies
- **SDG 15** – Conserving ecosystems through environmental research
- **SDG 17** – Building academic partnerships for global sustainable development