



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.



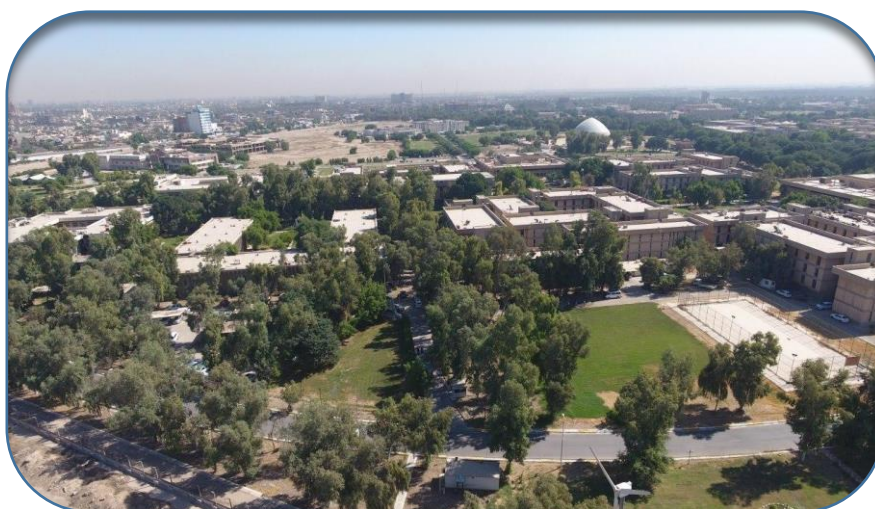
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Setting and Infrastructure (SI)



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1.3 Number of campus site





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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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1.4 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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1.5 Total campus area (m²)



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

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

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Total Campus Area of Northern campus

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

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

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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1.6 Total campus ground floor area of buildings (m²)

Campus	Distance	Buildings
Southern campus	6.36594 km	546253.24 m sq
Northern campus	3.51228 km	26773.06 m sq
Total	9.87822 km	573026.3 m sq



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1.7 Total campus buildings area (m²)

Buildings area
1719078. 9 m sq





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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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1.8 The ratio of open space to total area

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

$((765218.03 \text{ m sq} - 573026.3 \text{ m sq} / 765218.03 \text{ m sq}) * 100\%)$

$= (192191.73 \text{ m sq} / 765218.03 \text{ m sq}) * 100\%$

=25.1159%



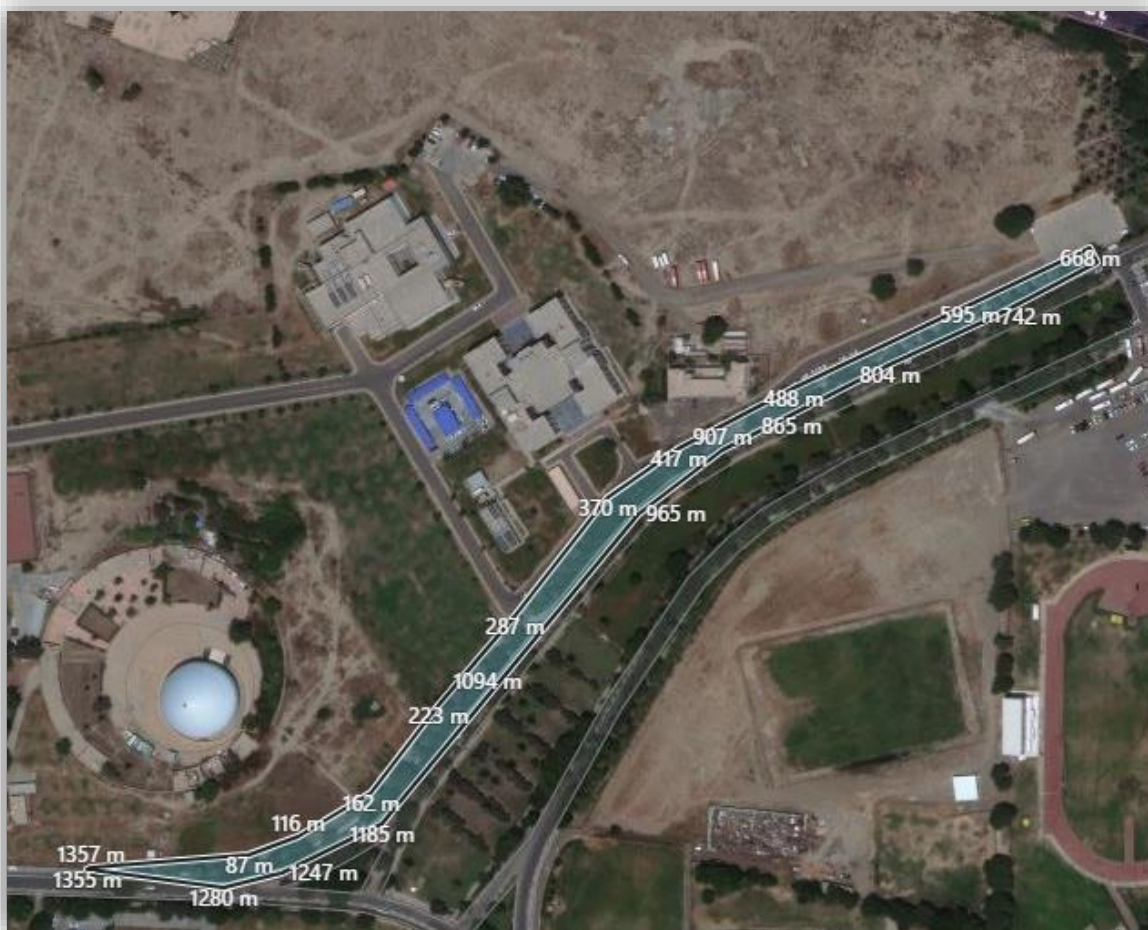
Where (765218.03 m sq) represent the total area of the Al-Nahrain university (southern and northern campus), (573026.3 m sq) represent the building area of the university. Finally, **(25.1159%)** represent the ratio of open space to total area of the Al –Nahrain University.



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1.9 Total area on campus covered in forest vegetation

Forests	
Distance	Area
6.7155 km	53010.77 m sq





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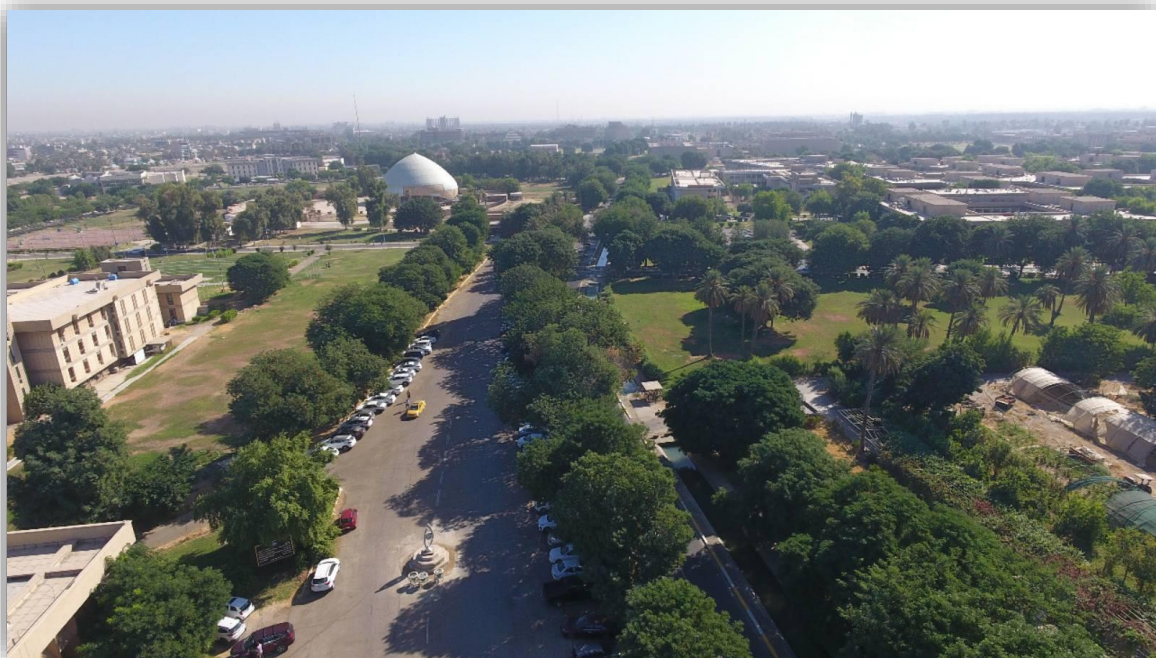


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Where (**53010.77 m sq**) represent the total area on campus covered in forest vegetation and (6.7155 km) represents the Total distance/circumference of the Al-Nahrain university (Southern and Northern campus).

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



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1.10 Total area on campus covered in planted vegetation

Planting	
Distance	Area
7.4682 km	139180.96 m sq





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Where (139180.96 m sq) represent total area on campus covered in forest vegetation and (7.4682 km) represent Total distance/circumference of the Al-Nahrain university (Southern and Northern campus).

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1.11 Total area on campus for water absorption be sided forest and planted vegetation

$$(1.11/ (1.9+1.10))*100$$

$$= (257.094.74 \text{ m sq}/ (192191.73 \text{ m sq}))*100$$

$$=0.13376\%$$



Total	257.094.74 m sq
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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.



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

Total	3048
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1.13 Total number of online students (part time and full time)

Total	914
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1.14 Total number of academic and administrative staff

Total	2396
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1.15 Estimated total population in campus during pandemic

Total	5444
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1.16 The total open space area divided by total campus population

Formula: $((1.5-1.6)/1.15$

$((765218.03 \text{ m sq} - 573026.3 \text{ m sq}) / 5444$

$= 192191.73 \text{ m sq} / 5444$

$= 35,30\%$



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1.17 Total university's budget (in US Dollars)

total	313245499\$
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1.18 University's budget for sustainability effort (in US Dollars)

total	26175933\$
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This number of University's include (infrastructure, facilities, personnel cost, and others related to the sustainability efforts per annum over the last 3 years in US Dollars).



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1.19 Percentage of University's budget for sustainability effort

Formula: $((1.17/1.16)*100\%)$

$$1,19 = (317611594/59,891)*100\% \\ = 5,303\%$$



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[1-20] Percentage of Operation and Maintenance activities during Covid-19 pandemic

Al-Nahrain University has an annual and periodic strategy to re-maintain buildings inside the university campus, including classrooms, electrical equipment, university gardens, public and health facilities, and it is under the supervision of the Dean of the College.

1	Total campus buildings area	17.190.789m ²
2	Total operated building	14612170 m ²
	Percentage building that operated and maintenance	85%



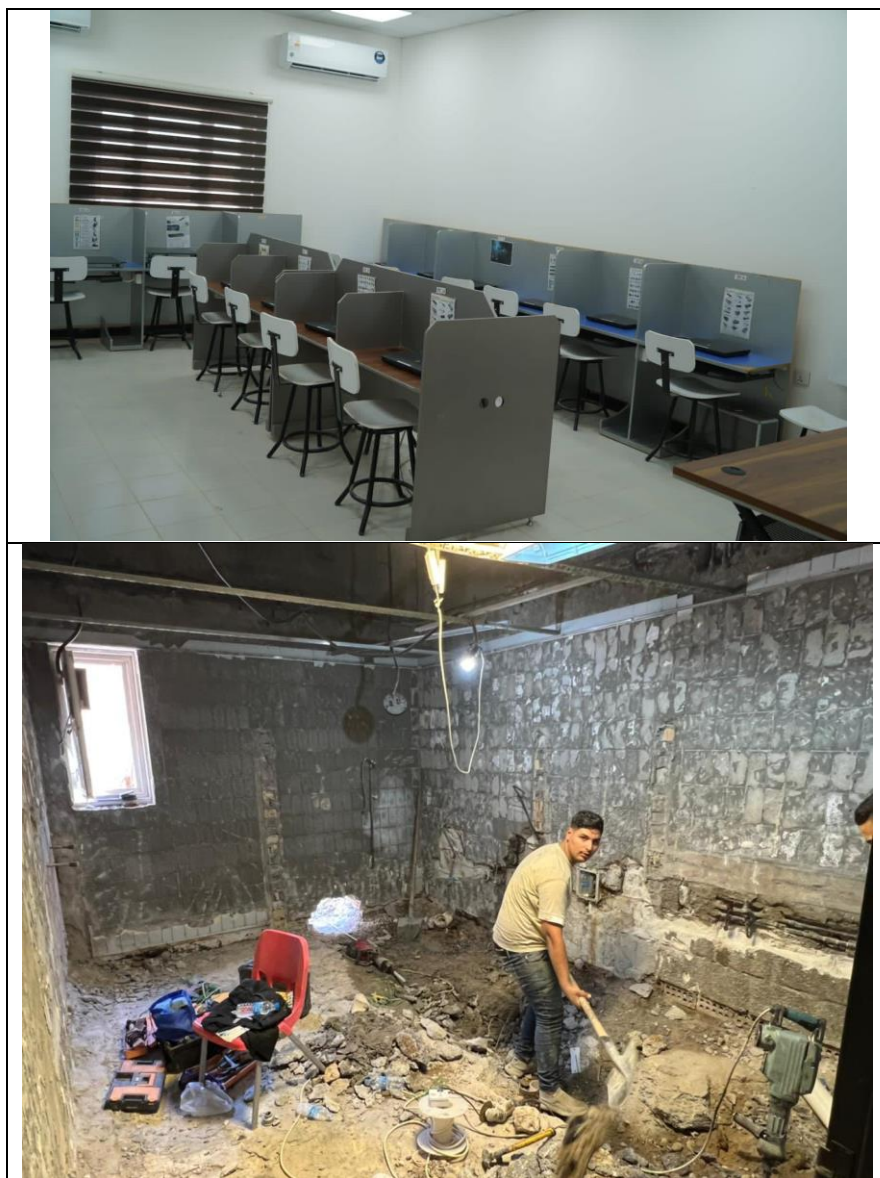


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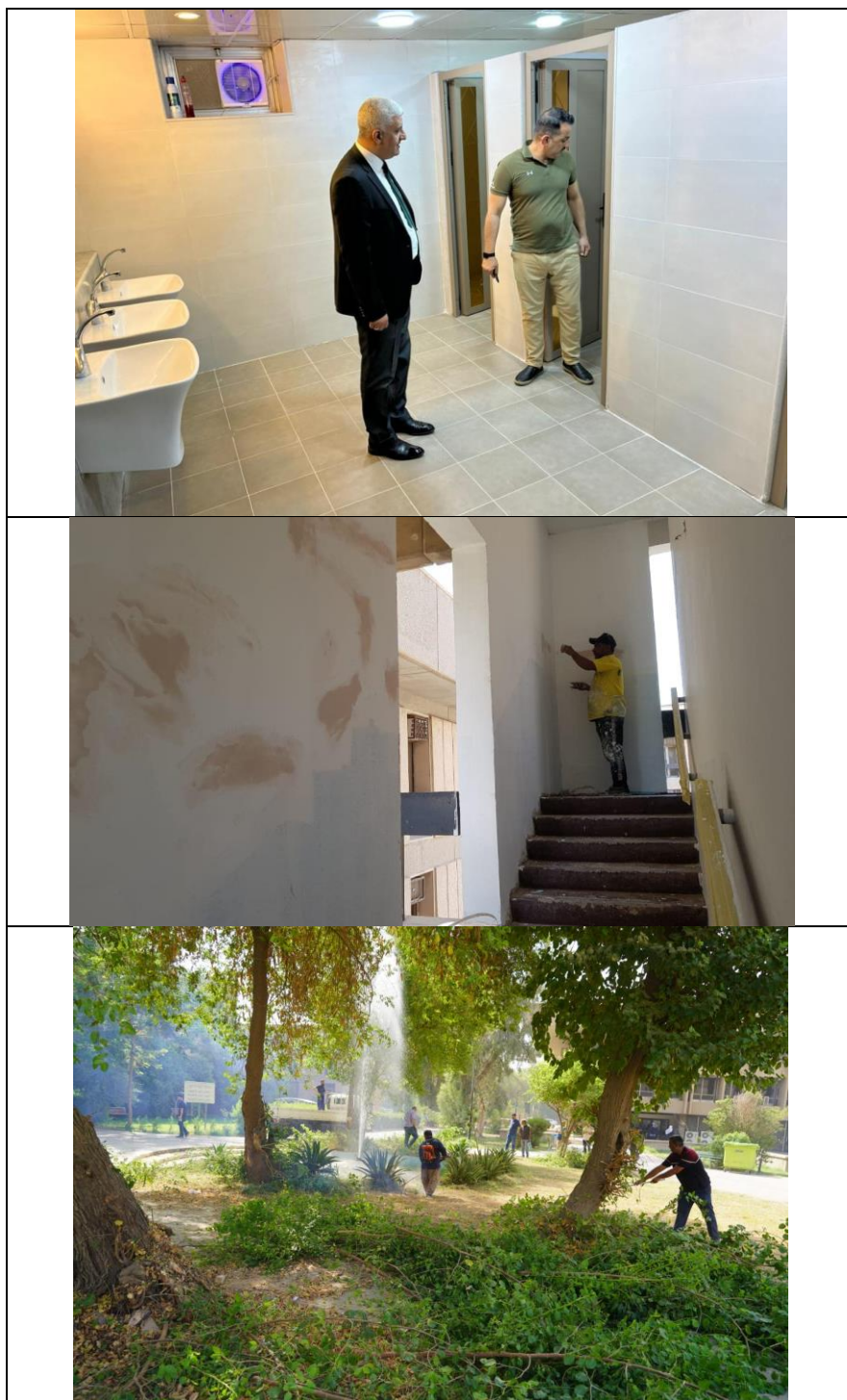


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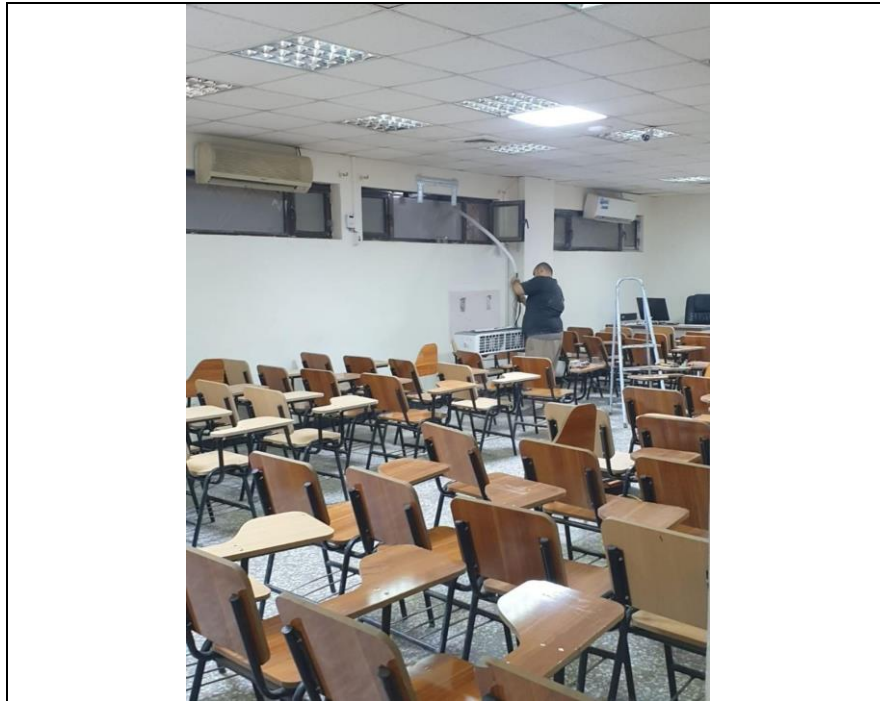


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Additional evidence link : <https://web.facebook.com/Al.Nahrain.U/photos/5356698851033562>

Additional evidence link : <https://web.facebook.com/Al.Nahrain.U/photos/5422518694451577>

Additional evidence link: <https://web.facebook.com/Al.Nahrain.U/photos/5458941834142596>

Additional evidence link: <https://web.facebook.com/Al.Nahrain.U/photos/5476372209066225>

Additional evidence link:

https://web.facebook.com/permalink.php?story_fbid=pfbid02mi6iC7HkL9vNuEZtDaH9jDz6yDqYarmgpU5zhxSXCBU7bGSpsYjV1JqtrwiWzd5fI&id=100057205280026



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[1-21] Campus facilities for disable 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.





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[1-22] Security and safety facilities



CCTV outside building



Fire truck



Fire extinguishers



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gramophone



Cameras inside the buildings



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Alarms System

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).

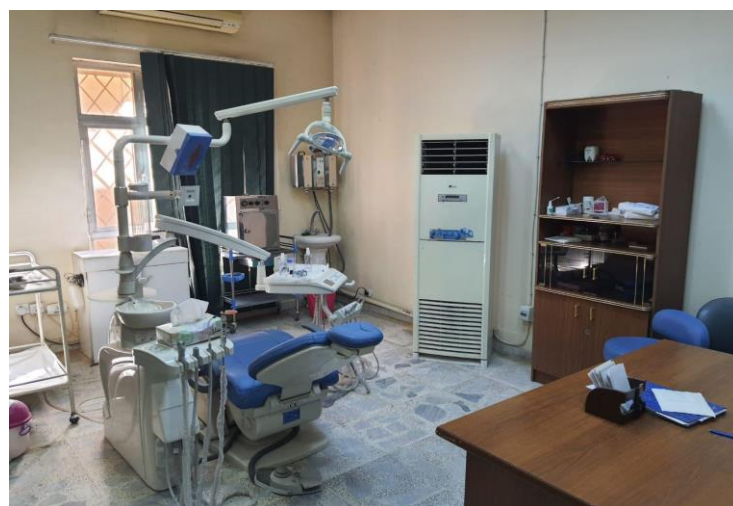


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[1.23] Health infrastructure facilities for students and academic and administrative staff wellbeing



Health care center



A dental examination and treatment unit



An ultrasound examination unit



A sample 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>

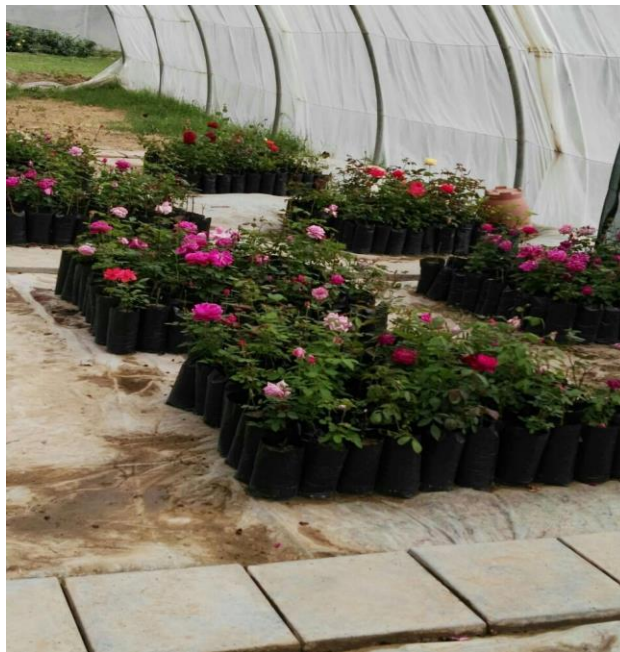
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[1.24] Conservation

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

2- Al-Nahrain University produced during the year 2021 a good crop of honey and absorbed it to cover the largest possible number of requests within the university apiaries for the residents of the campus and the community.

Green houses at AL-Nahrain university





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The university's apiaries



Greenhouse for growing plants out of season



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



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Energy and Climate Change (EC)



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2.1 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
١	Standard air conditioner	580	250	43%
٢	Standard air conditioner(inverter)			
٣	Standard lamps	7156	1654	23%
٤	Standard lamps(LED)			
٥	Desktop computers	660	209	32%
٦	Desk top computers(Laptop)			
7	Stand Fan	200	100	50%
8	Refrigerator	150	100	66%
Average Percentage				42%



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2.2 Total campus smart building area (m2)

Total campus smart building area
507706.152 m sq

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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).



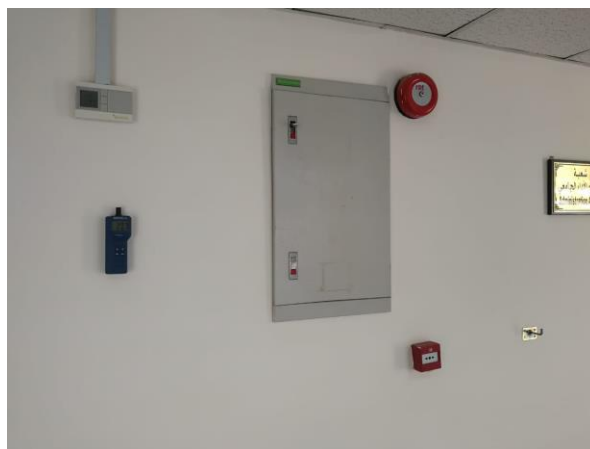


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No.	Name	Place	automation		Safety				energy		water		Indoor environment				lighting				Building Area (m ²)
			B1	B2	S1	S2	S3	S4	E1	E2	A1	A2	I1	I2	I3	I4	L1	L2	L3	L4	
1	University of AL-Nahrain; sothren campus buildings	Jadriah,Iraq	x		x	x	x		x			x	x	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=1719078. 9 m sq

total smart building area=507706.152 m2

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

(507706.152 m2/1719078. 9 m2)*100

= 0.295

=29.5%



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

Biodiesel=656 kilowatt-h



Biodiesel



Solar Power

Solar power = 648 kilowatt-h



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windmill = 416 kilowatt-h



Clean Biomass = 2 kilowatt-h



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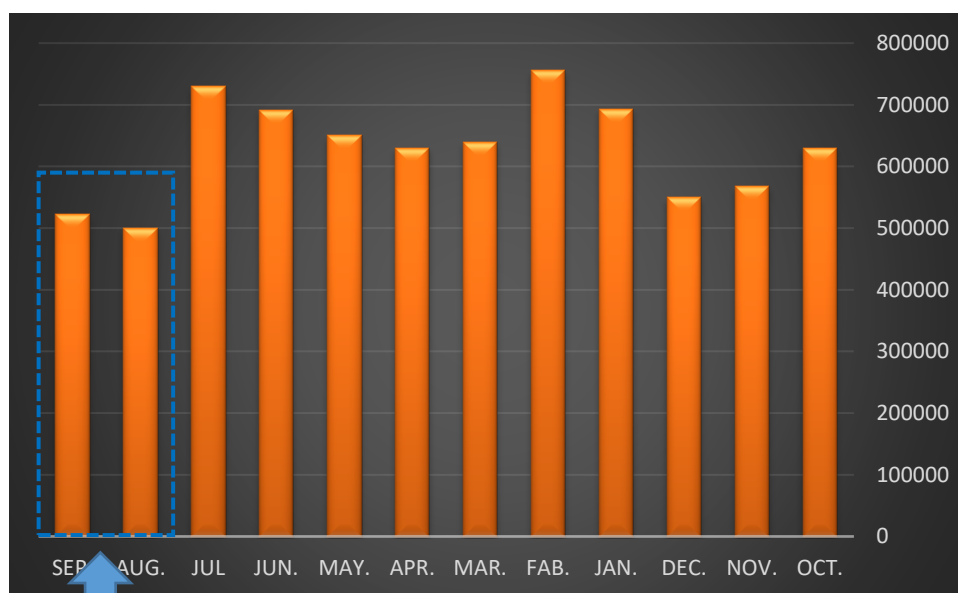
The refrigeration, heating and power unit at Al-Nahrain University that uses biodiesel as fuel the heat can be used to heat water that used daily in campus.



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2.6 Electricity usage per year (in kilowatt-hour)

Electricity usage per year	7559973 kilowatt-hour
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Where in these two months there is a holiday for the under graduate students only



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

Formula: (2.6) / 1.15

7559973 kWh / 5444
=1388.68 (kwh per person)



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

No	Renewable Energy	Production (in kWh)
1	Biodiesel	656
2	Clean Biomass	2
3	Solar panel	648
4	Windmill	416
	Total	1722

$1722 / 7559973$ (Electricity usage) =0.022%



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

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





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[2-10] 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.

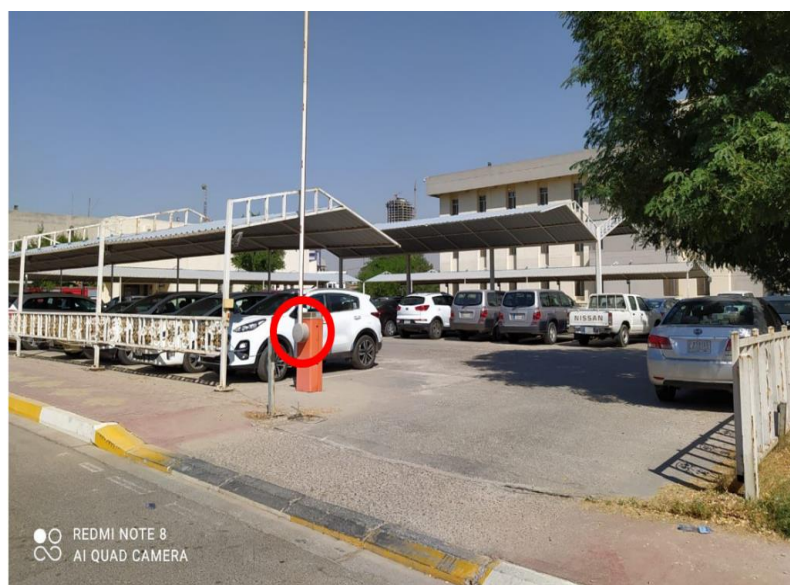




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Electronic car garage



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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- Reducing the workforce, as irrigation is done via the Internet
- 3- Use it indoors and outdoors without soil

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



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

CO₂ (electricity)

$$\begin{aligned} &= \frac{\text{electricity usage per year (kWh)}}{1000} \times 0,84 \\ &= (7559973 \text{ kW}/1000) \times 0.84 \\ &= 6350.4 \text{ 3 metric tons} \end{aligned}$$

CO₂ (bus)

$$\begin{aligned} &= \frac{\text{number of shuttle bus in your university} \times \text{total trips for shuttle bus service each day} \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01 \\ &= ((20 \times 2 \text{ km} \times 240)/100) \times 0.01 \\ &= (19200/100) \times 0.01 \\ &= 1.92 \text{ metric tons} \end{aligned}$$

CO₂ (cars)

$$\begin{aligned} &= \frac{\text{number of cars entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,02 \\ &= ((250 \times 2 \text{ km} \times 240)/100) \times 0.02 \\ &= (240000/100) \times 0.02 \\ &= 48 \text{ metric tons} \end{aligned}$$

CO₂ (motorcycle)

$$\begin{aligned} &= \frac{\text{number of motorcycle entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01 \\ &= ((10 \times 2 \text{ km} \times 240)/100) \times 0.01 \\ &= (9600/100) \times 0.01 \\ &= 0.96 \text{ metric tons} \end{aligned}$$

CO₂ (total)

$$\begin{aligned} &= 6350.3 + 1.92 + 48 + 0.96 \\ &= 6401.18 \text{ metric tons} \end{aligned}$$

Carbon footprint in 2020 = 6401.18 metric tons



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[2-12] The total carbon footprint divided by total campus population (metric tons per person).

Formula: $(2.11)/(1.15)$

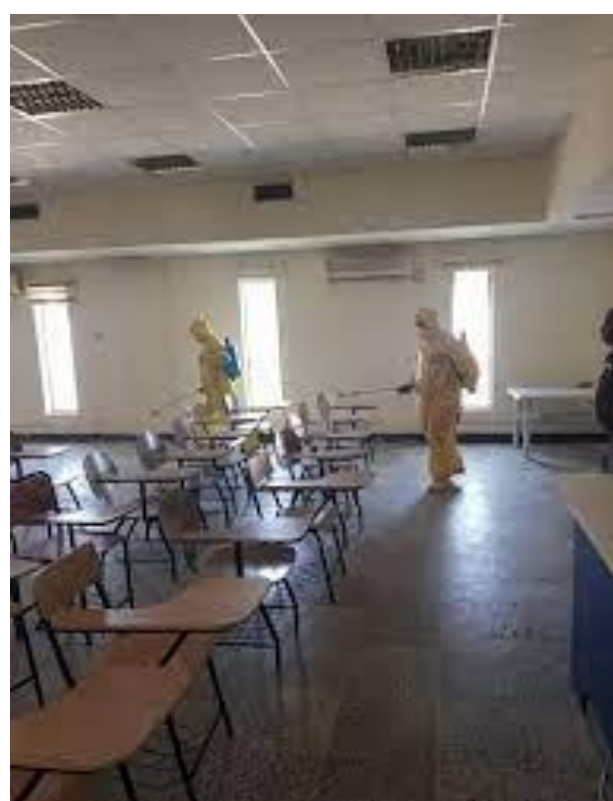
$= 6401,18/5444$

$= 1,17582292$

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[2-13] 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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2- Book sterilizer device

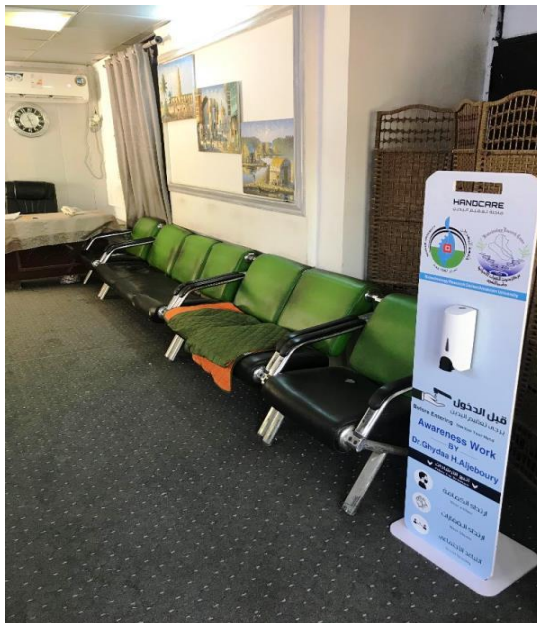


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Al-Nahrain University has a book sterilizer that works on the principle of ultraviolet sterilization

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.



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5- air sanitizer filter



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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[2-14] Impactful university program on climate change



Windmill at AL-Nahrain university

Al-Nahrain University is building windmills as a power station and is in the process of constructing other windmills and distributing them throughout the campus to generate electricity for buildings using wind energy.



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Waste (WS)

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3.1 (WS.1) Recycling program for university waste





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Sorting plastic on campus



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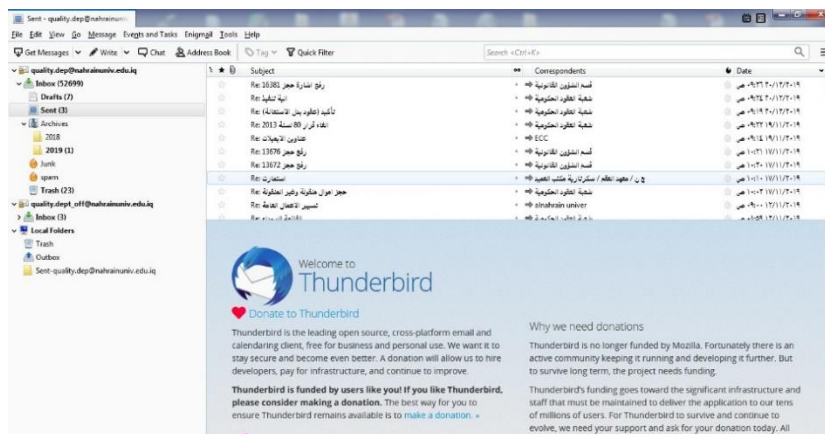


Al-Nahrain University follows a policy of sorting waste such as paper, plastic, electronic and chemical materials scattered on campus and recycling them in cooperation with a local institution affiliated with the capital Baghdad (Amanat Baghdad) and using them in the future to produce metals. Baghdad paper and used in the future to produce metal and paper.

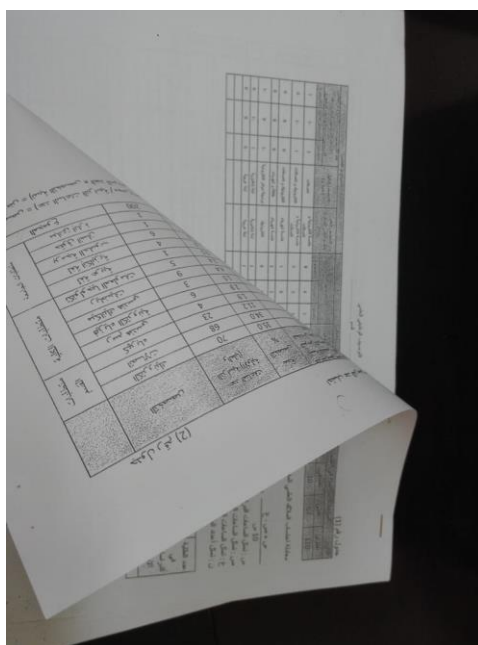


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3.2 (WS.2) Program to reduce the use of paper and plastic on campus



Correspondence via internet



Print on two sides of the paper



University : Al –Nahrain University
Country : Iraq



Use a glass cup

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.



University : Al –Nahrain University
Country : Iraq



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.

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>



University : Al –Nahrain University
Country : Iraq

3.3 (WS.3) Organic waste treatment





University : Al –Nahrain University
Country : Iraq

Al-Nahrain University has a cooperation program with the Baghdad Municipality to manage organic waste.

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.

The method of disposing of the waste inside Al-Nahrain University is by transporting it outside the city to designated places in cooperation with the Municipality of the Capital.



University : Al –Nahrain University
Country : Iraq

3.4 (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.

University : Al –Nahrain University
Country : Iraq

3.5 (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.
- 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.

University : Al –Nahrain University
Country : Iraq

3.6 (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.



University : Al –Nahrain University
Country : Iraq

Water (WR)

University : Al –Nahrain University
Country : Iraq

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



University : Al –Nahrain University
Country : Iraq



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.





University : Al –Nahrain University
Country : Iraq

- 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.



University : Al –Nahrain University
Country : Iraq

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

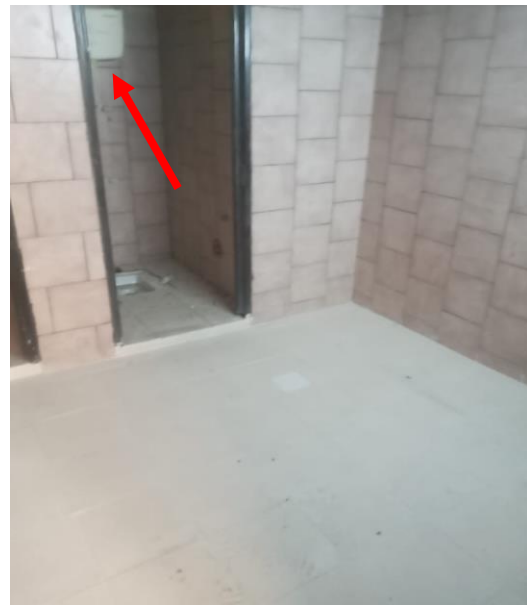


Tank of treated water

University : Al –Nahrain University
Country : Iraq

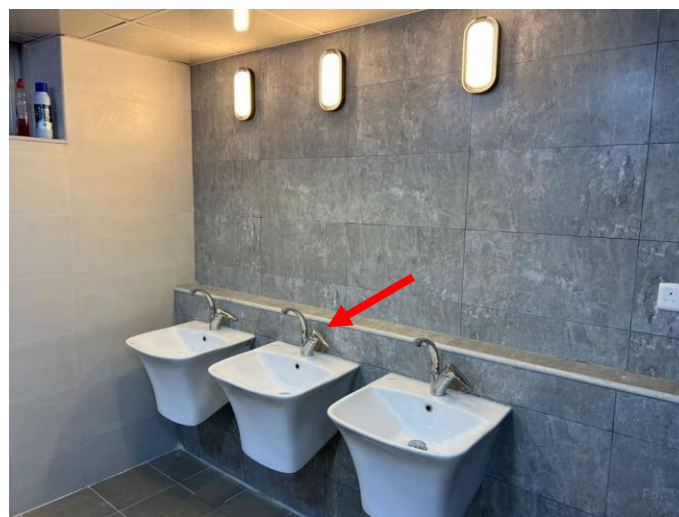
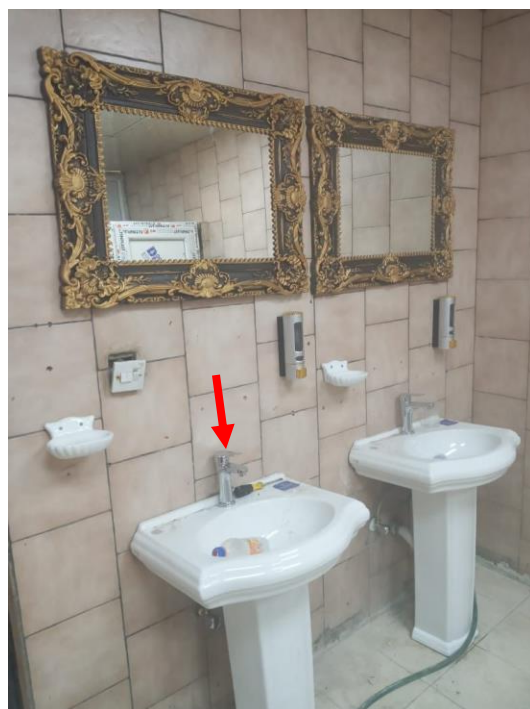
4.3 (WR.3) Water efficient appliance usage

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.





University : Al –Nahrain University
Country : Iraq





University : Al –Nahrain University
Country : Iraq

4.4 (WR.4) Treated water consumed

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.





University : Al –Nahrain University
Country : Iraq



University : Al –Nahrain University
Country : Iraq

[4.5] 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://brc.nahrainuniv.edu.iq/?page_id=5032&lang=en

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



University : Al –Nahrain University
Country : Iraq

Transportation (TR)



University : Al –Nahrain University
Country : Iraq

5.1 Number of cars actively used and managed by University

61 cars

5.2 Number of cars entering the university daily

250 cars

5.3 Number of motorcycles entering the university daily

10 motorcycles

University : Al –Nahrain University
Country : Iraq

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

$$\begin{aligned}\text{Formula: } (5.1+5.2+5.3)/ (1.15) &= (61+250+10)/ 5444 \\ &= 321/5444 \\ &= 0.0589\end{aligned}$$



University : Al –Nahrain University
Country : Iraq

5.5 (TR.2) Shuttle service



- 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.



University : Al –Nahrain University
Country : Iraq

2- The university provides small government cars to perform their field work on campus.





University : Al –Nahrain University
Country : Iraq

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



University : Al –Nahrain University
Country : Iraq

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.



University : Al –Nahrain University
Country : Iraq

5.12 Total ground parking area (m²)

Total ground parking area = 16572.29 sq m

University : Al –Nahrain University
Country : Iraq

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

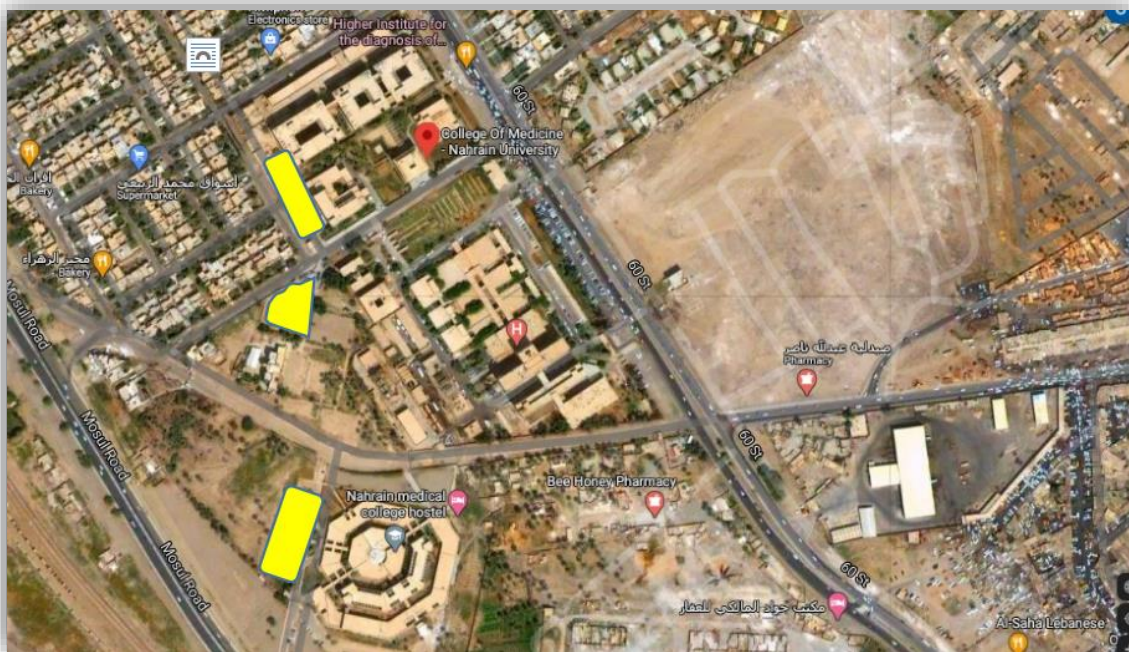
$$\begin{aligned}\text{Formula: } & ((5.12/1.5) \times 100\%) \\ & = ((16572.29 \text{ sq m}/765218.03 \text{ m sq}) \times 100\%) \\ & = 0.0216 \times 100 \\ & = 2.165\end{aligned}$$



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



University : Al –Nahrain University
Country : Iraq



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



University : Al –Nahrain University
Country : Iraq



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

University : Al –Nahrain University
Country : Iraq

[5.14] Transportation program designed to limit or decrease the parking area on campus for the last 3 years (from 2018 to 2020)

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.



University : Al –Nahrain University
Country : Iraq

5.15 (TR.7) Number of transportation initiatives to decrease private vehicles on campus (e.g. car sharing, charging high parking fees, metro / tram / bus services and etc)





University : Al –Nahrain University
Country : Iraq



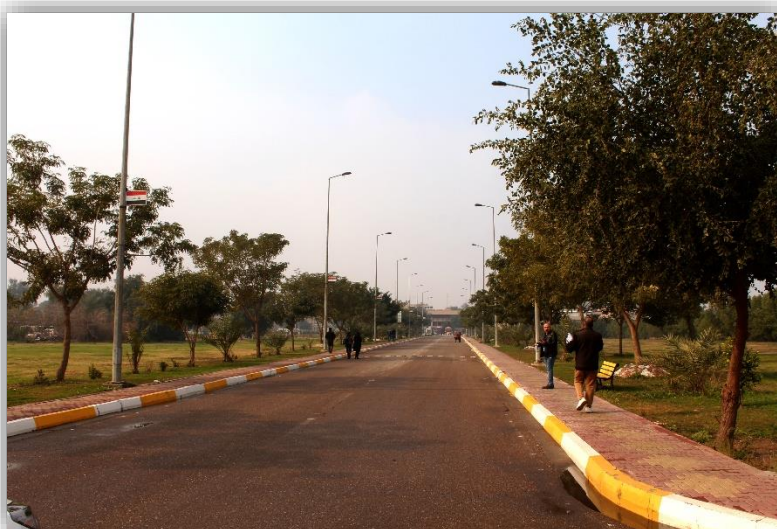
Al-Nahrain University is working to reduce the number of vehicles on campus by implementing initiatives, including:

1. Shuttle/bus campus inside campus
3. Walking
4. Car sharing

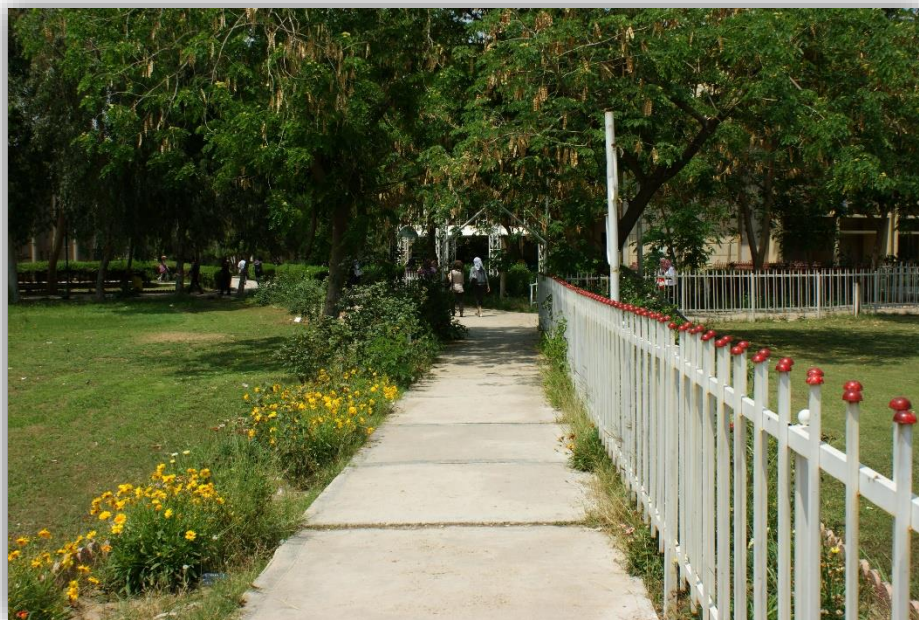


University : Al –Nahrain University
Country : Iraq

5.16 (TR.8) Pedestrian path on campus



University : Al –Nahrain University
Country : Iraq



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





University : Al –Nahrain University
Country : Iraq





University : Al –Nahrain University
Country : Iraq

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

Daily travel distance of a vehicle inside campus = 2 Kilometers



University : Al –Nahrain University
Country : Iraq

Education (ED)



University : Al –Nahrain University
Country : Iraq

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

Number of courses (2021) = 58

Department: Chemical Engineering

courses
Renewable and nonrenewable energy
Solar energy
Wind energy
Geothermal energy
Ocean energy
Hydropower energy
Energy from Biomass
Production of hydrogen and storage
Fuel cell

Department of Biotechnology

courses
Plant physiology
Bio fuel
Phytoremediation



University : Al –Nahrain University
Country : Iraq

Republic of Iraq
The Ministry of Higher Education
& Scientific Research



University: Al Nahrain
College: Engineering college
Department: Architecture
Stage: Master
Instructor name: Shaimaa Hameed Hussein
Academic status: Assistant Professor
Qualification: Doctorate
Place of work: Architectural Engineering Dep

Urban Sustainability

Course Weekly Outline

Week	Topics Covered	Note
1	Sustainable Urban Design Strategies.	
2	Tactical Urbanism	books review
3	Green & Sustainable Cities	books review
4	Smart City Design Principles	books review
5	Resilient Design Principles & compact cities	books review
6	Sustainable Urban Dynamics	books review
7	Sustainable urban form& good city form	books review
8	Public good in the city	books review
9	LEED for Neighborhood Development	books review
10	Urban sprawl & high density	books review
11	Sustainable Urban Landscape - Theory and Method	books review
12	Biomimicry and urban design	books review
13	Exam	
14	Social responsibility	books review
15	Vibrant city	
16	Final exam	



University : Al –Nahrain University
Country : Iraq

Department: Electronic and Communication Engineering

Alnahrain University		Study Plan for the B.Sc.				
College of Engineering		Academic year 2018-2019				
Department of Electronic and Communications Engineering		The Third Year				
The First Semester						
No.	Code	Subject	Hours per Week			Units
			Theory	Applied	Tutorial	
1	ECER310	Engineering Statistics and Probability	3	-	1	3
2	ECER311	Energy Conversion I	3	-	-	3
3	ECER312	Communication Systems I	3	3	1	4
4	ECER313	Electronics III	3	3	1	4
5	ECER314	Wave Propagation	2	-	-	2
6	ECER315	Microprocessor	2	3	-	3
7						
8						
Total			16	9	3	19
			28			
The total number of hours for the first semester is			420	hour.		

Republic of Iraq
The Ministry of Higher Education
& Scientific Research



University: NAHRAIN
College: ENGINEERING
Department: ELECTRONICS & COMM.
Stage: Third
Semester: Second
Subject: Energy conversion II
Theoretical : 2H
Applied : 3H -
Tutorial: -

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1.		Types of controlled switches and operation principles,	Single phase transformer principles	
2.		Gate turn off Thyristors , Power MOSFET	DC machine principles and speed control	
3.		Diode rectifier , single phase rectifier	Induction machine operation methods	
4.		DC-DC Converters	Studying the Characteristics of controlled switches	
5.		DC- DC converter and applications	Design and application of single phase rectifier	
6.		Inverters principles	Operation of Boost DC – DC converters	
7.		Inverters principles and applications	Operation Of Buck DC-DC Converters	
8.		Mid term examination	Mid Term exam	
9.		Gate Derive circuits ,	Inverter operation and Control	
10.		Example for Gate derive circuit	Servo motor operation and control	
✓ 11.		Renewable sources general	Stepper motor operation and direction Control	
✓ 12.		Solar renewable energy	Design and application of renewable system(part I)	
✓ 13.		Photovoltaic renewable energy	Design and application of renewable system(part II)	
✓ 14.		Renewable energy operation and circuits	Final Term Exam	
15.		Final term examination		



University : Al –Nahrain University
Country : Iraq

Department: Mechanical Engineering

Mechanical engineering Department

Courses In sustainability

First: B.Sc.

Fourth Year Elective courses

1- Introduction to Renewable Energy

Introduction to renewable Energy, Photovoltaics, Wind power, Micro hydropower, Biomass energy, Waste power, Solar thermal power, Geothermal power, Ocean energy (tidal, tide-flow and wave), Ocean energy, Comparison of characteristics and cost of renewables, method of using the sun, wind, biomass, geothermal resources, and water to generate more sustainable energy., Energy from the sun is transferred and stored; used for heating, cooling, and lighting; collected and concentrated; and converted into electricity

2- Solar energy

Sun radiation measurements, Properties of photovoltaic devices, open circuit voltage and short circuit current, maximum power point (MPP), The efficiency of solar cells, parallel and series solar cells, shadow, temperature and dust effect, battery charging and control, off grid connection. on grid connection.

Second: M.Sc. Elective courses

1- Design of wind turbines

Historical applications of wind energy , Electrical Power from the Wind and the batteries ,Wind energy system (rotor blades, the tower, Mechanical Drive, Electrical System, etc) , Physical Principles of Wind Energy Conversion 9, 10 Basic concepts of wind energy Converters (turbines) , Aerodynamics of turbines , Using computer software for wind energy analysis, Electrical Power from wind energy, Electrical aspects of wind turbines, Wind turbine design, Wind turbine control. Wind turbine installation, siting, system design, integration and operation

2- Renewable Energy Sources

- INTRODUCTION: Energy demand growth and supply : Historical Perspectives ; Fossil fuels: Consumption and Reserve ; Environmental Impacts of Burning of Fossil fuels ; Sustainable Development and Role of 2- Renewable Energy
- SOLAR ENERGY BASICS: Solar geometry; Primary and Secondary Solar energy and Utilization of Solar Energy. Characteristic advantages and disadvantages. Low temperature applications: solar water heating, space heating, drying.
- SOLAR THERMAL ELECTRICITY GENERATION: Solar concentrators and tracking ; Dish and Parabolic trough concentrating generating systems, Central tower solar thermal power plants ; Solar Ponds.
- SOLAR PHOTOVOLTAIC SYSTEMS: Basic principle of power generation in a PV cell ; Band gap and efficiency of PV cells ; Manufacturing methods of mono- and polycrystalline cells ; Amorphous silicon thin film cells, Single and multi junction cells ; Application of PV ; Brief outline of solar, PV stand-alone system design ; Storage and Balance of system.
- WIND Energy Systems: Types of turbines, Coefficient of Power, Betz limit, Wind electric generators, Power curve; wind characteristics and site selection; Windfarms for bulk power supply to grid; Potential of wind electricity generation in India and its current growth rate.
- BIOMASS ENERGY: Biomass: Sources and Characteristics; Wet biogas plants ; Biomass gasifiers: Classification and Operating characteristics; Updraft and Downdraft gasifiers; Gasifier based electricity generating systems; Maintenance of gasifiers.
- OCEAN ENERGY: Tidal power plants : single basin and two basis plants, Variation in generation level ; Ocean Thermal Electricity Conversion (OTEC) ; Electricity generation from Waves : Shoreline and Floating wave systems.
- GEOTHERMAL ENERGY: Geothermal sites in India ; High temperature and Low temperature sites ; Conversion technologies- Steam and Binary systems ; Geothermal power plants.

The number of sustainability-related courses that Al-Nahrain University studies for students during the academic year, which includes the following departments:

Chemical Engineering

Biotechnology



University : Al –Nahrain University
Country : Iraq

Architecture Engineering

Electronic and Communication Engineering

Mechanical Engineering

The links below represent the subjects and units of the Faculty of Business Economics at Al-Nahrain University related to sustainable development

Evidence: <https://eco.nahrainuniv.edu.iq/en/wp-content/uploads/2021/09/%D9%86%D8%B8%D8%A7%D9%85-%D8%A7%D9%84%D9%83%D9%88%D8%B1%D8%B3%D8%A7%D8%AA-%D9%84%D9%85%D9%86%D8%A7%D9%87%D8%AC-%D9%82%D8%B3%D9%85-%D8%A7%D9%82%D8%AA%D8%B5%D8%A7%D8%AF%D9%8A%D8%A7%D8%AA-%D8%A7%D8%AF%D8%A7%D8%B1%D8%A9-%D8%A7%D9%84%D8%A7%D8%B3%D8%AA%D8%AB%D9%85%D8%A7%D8%B1-%D9%88%D8%A7%D9%84%D9%85%D9%88%D8%A7%D8%B1%D8%AF-1.pdf>

Evidence: <https://eco.nahrainuniv.edu.iq/wp-content/uploads/2021/09/%D9%86%D8%B8%D8%A7%D9%85-%D8%A7%D9%84%D9%83%D9%88%D8%B1%D8%B3%D8%A7%D8%AA-%D9%84%D9%85%D9%86%D8%A7%D9%87%D8%AC-%D9%82%D8%B3%D9%85-%D8%A7%D9%82%D8%AA%D8%B5%D8%A7%D8%AF%D9%8A%D8%A7%D8%AA-%D8%A7%D8%AF%D8%A7%D8%B1%D8%A9-%D8%A7%D9%84%D9%85%D8%B5%D8%A7%D8%B1%D9%81.pdf>

Evidence: <https://eco.nahrainuniv.edu.iq/wp-content/uploads/2021/09/%D9%86%D8%B8%D8%A7%D9%85-%D9%83%D9%88%D8%B1%D8%B3%D8%A7%D8%AA-%D9%84%D9%82%D8%B3%D9%85-%D8%A7%D9%84%D8%B1%D9%82%D8%A7%D8%A8%D8%A9.pdf>

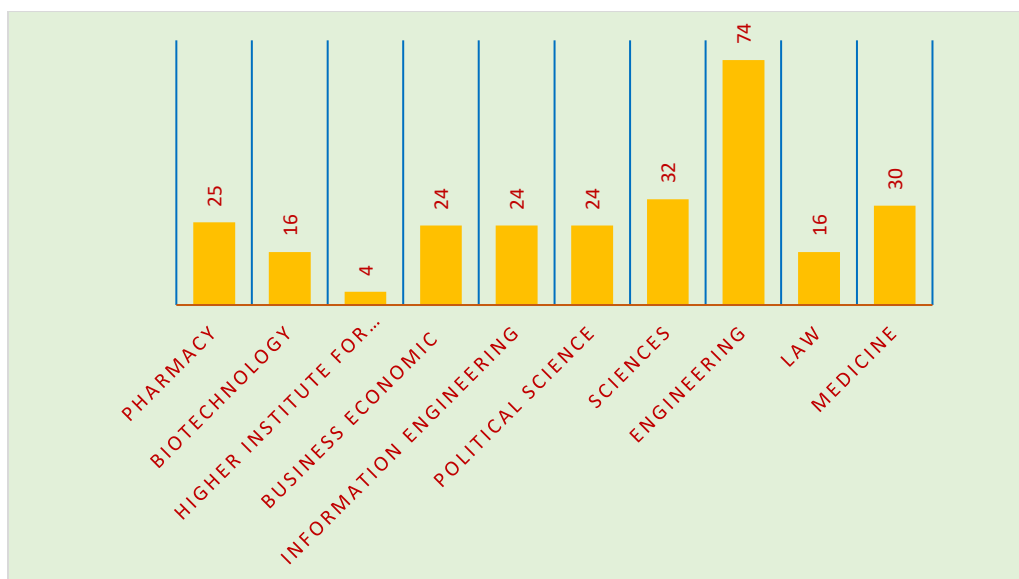


University : Al –Nahrain University
 Country : Iraq

[6.2] Total number of courses/subjects offered

Total number=269

Number of colleges	Number of Dep.	Courses
medicine	1	30
Law	2	16
engineering	9	74
Sciences	4	32
political science	3	24
Information engineering	3	24
business Economic	3	24
Higher Institute for Infertility Diagnosis and ARTs	1	4
Biotechnology	2	16
Pharmacy	1	25
Total	29	269





University : Al –Nahrain University
Country : Iraq

Al-Nahrain University guideline, which contains courses and units of all faculties of the university

The link below is the latest version of the guide:

<https://qa.nahrainuniv.edu.iq/sites/default/files/Al%20Nahrain%20Guideline.pdf>



University : Al –Nahrain University
Country : Iraq

[6.4] 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 2019 =
22930 US Dollars

Total research fund dedicated to sustainability research in 2020 =
4029 US Dollars

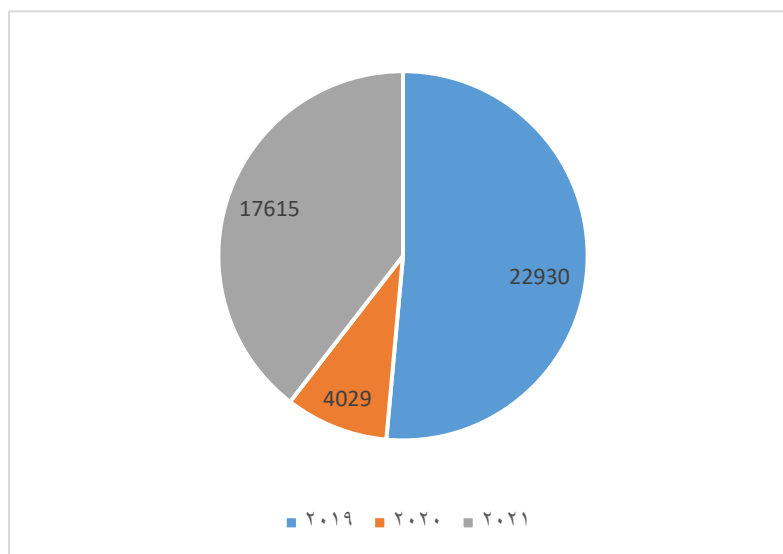
Total research fund dedicated to sustainability research in 2021 =
7667 US Dollars

Total = 34626

The averaged annum last 3 years of research fund dedicated to sustainability research = 11542 US Dollars



University : Al –Nahrain University
Country : Iraq





University : Al –Nahrain University
Country : Iraq

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

Total research fund in 2019 = 55722 US Dollars

Total research fund in 2020 = 33201 US Dollars

Total research fund in 2021 = 89757 US Dollars

Total = 178680

The averaged annum last 3 years of research fund = 59560 US Dollars



University : Al –Nahrain University
Country : Iraq

[6.7] Number of scholarly publications on sustainability

Google Scholar search results for "al-nahrain university" & green & sustainability. The search shows 539 results. The left sidebar includes filters for time (Any time, Since 2022, Since 2021, Since 2018, Custom range...), sort (Sort by relevance, Sort by date), type (Any type, Review articles), and checkboxes for include patents, include citations, and Create alert. The main results list four articles with titles, authors, and links to PDFs.

Article Title	Author(s)	Year	Source
Measuring the impact of some green economy indicators on carbon emissions in Indonesia (1990-2020)	SA Mustafa, IM Rashad	2021	researchgate.net
The importance of evaluating the environmental design and performance of student projects as a product of architecture departments: A case study	KA Wahhab, NJ Rizko	2019	ius.edu.ba
Eco-friendly green corrosion inhibitors in overview	MAI-mashhadani, WA Ahmed, M Abdalh...	2020	royalliteglobal.com
Attempts to manipulate direct fluorescent antibody test for detection of rabies virus antigen in mouse brain	II Al-Sultan, FJ Shalsh, EH Al-Taei, AAziz	2021	iasj.net

Number of events **scholarly publications on sustainability** in the academic year 2019-2021.

A total average per annum over the last 3 years of **539 publications**.

evidence link : [https://scholar.google.com/scholar?q=\"al+-nahrain+university\"+%26+green+%26+sustainability&hl=en&as_sd t=0%2C5&as_vis=1&as_ylo=2019&as_yhi=2021](https://scholar.google.com/scholar?q=\)



University : Al –Nahrain University
Country : Iraq

[6.8] Number of Events Related to Sustainability

Total number= 81 events





University : Al –Nahrain University
Country : Iraq



مركز بحوث التهرين للطاقة المتجددة التكنولوجية
جامعة التهرين

المؤتمر الدولي الافتراضي الثاني بعنوان
(دور معالجة التلوثات في دعم مشاريع الطاقة
المستدامة وزيادة الدخل الوطني)

برعاية السيد رئيس جامعة التهرين
الأستاذ الدكتور علي عبد العزيز الشاوي المحترم
وبإشراف
مدير مركز بحوث التهرين للطاقة المتجددة التكنولوجية
الأستاذ الدكتور كريم خلف محمد المحترم

يقدم أستاذ طه الكنتلة الحويجة المؤتمر الدولي
الافتراضي الثاني بعنوان:

(دور معالجة التلوثات في دعم مشاريع الطاقة
المستدامة وزيادة الدخل الوطني)

في تمام الساعة التاسعة في يوم الاثنين والثلاثاء
(المصطفين)
٢٠٢١ / ٧ / ١٣-١٤

محاور المؤتمر:

١) إدارة التلوثات (المنزلية، الصناعية، التجارية)
٢) استخدام الطاقات النظيفة في معالجة التلوثات
٣) الاستثمار والتعاف

هدف المؤتمر:

الهدف من المؤتمر هو : بيان مدى إمكانية
استفادة الحكومة العراقية من هذه الدراسات
المقدمة من قبل الباحثين المحليين والأجانب
لإنتاج الطاقة الكهربائية من التلوثات في العراق
لأحداث ثورة في الطريقة التي نعد بها المنازل
والشركات التجارية بالطاقة الكهربائية المستدامة
خطط التنمية الاقتصادية الموجهة في العراق.
وتلك المحافظة على المواقع البيئية وتقليل نسبة
الأمراض المنتشرة.

Contact
07702556422
07739201672
info@nrc.nahrainuniv.edu.iq

Conference website
<http://conf.nrc.nahrainuniv.edu.iq>
Join Zoom Meeting
<https://us06web.zoom.us/j/5660603596?pwd=c2dNWjVvaK5Ud0NEa0R0ODR0Z0p>
Meeting ID: 566 060 3590
Passcode: 3JKuF0

Number of events related to environment and sustainability hosted or organized by the University in the academic year 2019-2021.

Total number of sustainability/environment related events in:

2019: 9

2020: 5

2021: 67

A total average per annum over the last 3 years of **27 events** .

evidence link :

<https://www.mediafire.com/file/b9lwfydyjafby9u/2021.pdf/file>

University : Al –Nahrain University
Country : Iraq

[6.9] Number of student organizations related to sustainability

Number of student organizations related to sustainability= 5

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.



University : Al –Nahrain University
Country : Iraq

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.

University : Al –Nahrain University
Country : Iraq



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 number of blowers, where a large part of this festival goes as humanitarian aid.



Evidence link: <https://nahrainuniv.edu.iq/ar/node/11831>



University : Al –Nahrain University
Country : Iraq

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.

Evidence link:



University : Al –Nahrain University
Country : Iraq

[6.13] Number of cultural activities on campus











برعاية السيد رئيس جامعة البصرة
الاستاذ الدكتور علي عبد العزيز الشاوي المحترم
وبإشراف السيدة عميد كلية اقتصاديات الأعمال
الاستاذ الدكتور نغم حسين نعمة المحترمة

السبت الموافق 2021-10-16

في تمام الساعة 8:30 مساءً حسب
توقيت بغداد



ننظم كلية اقتصاديات الأعمال في جامعة البصرة الندوة العلمية الموسومة :
(تحقيق التنمية المستدامة من خلال تكنولوجيا الطاقة المتجددة)

بقدمها الدكتور المهندس مصطفى أحمد التجار رئيس اكاديمية
الصادقة الدولية للتأهيل والتطوير/السويد وذلك في مساء يوم
السبت الموافق 2021/10/16 .



الطاقة المتجددة بوابتنا نحو كهرباء العالم



أ.د. مصطفى أحمد التجار

على برنامج
fccc2009
الرمز:

وسيقم منح شهادات
بالحضور



دعوة

Victoria International Center
for Research and Studies
University of Wollongong, N.S.W.

برعاية **مجالس الوزراء** **الاستاذ الدكتور محمد طالب عبيدات** رئيس جامعة سامراء المستدامة
الأردنية الهاشمية و **حسن استشاريات** رئيس اللجنة المستدامة لمنتدى المؤتمر الثاني للقيادات
العلمية برعاية **الاستاذ الدكتور ميمون مرتضى سلامة** مدير العام لجامعة الامم المتحدة للعلوم والتربية
والاستاذ **الدكتور وسام الشبيبي** رئيس جامعة كوفيتا لندن المملكة المتحدة و **السيد علي
السيد وسام** رئيس مجلس المصافاة المالية ملكة السويد بوليم فريق التنبئة المستدامة
الأول برئاسة **أد. مريم م. آل فلاح** وشعبة علمية إقليمية يوم **الثلاثاء 2022/02/28**
ساعات 8 مساءً بتوقيت مكة المكرمة وبعدها بموعول:

كيف يكون القطاع الخاص شريكا حقيقيا في تحقيق التنمية المستدامة

بإشراف
أ.د. محمد علي آل فلاح
رئيس فريق التنبئة المستدامة

بإشراف
الدكتور هادي لسانة
رئيس جامعة البحرين

Samer Algorini
أ.د. سامر مغنوق العنبري
رئيس اللجنة العلمية لمنتدى القدرات أ.د. محمد طالب عبيدات
جامعة كوفيتا لندن المملكة المتحدة
samer.algorini@uol.co.uk
<https://meet.google.com/pnj-qvpe-yxx>

بإشراف
أ.د. محمد علي آل فلاح
رئيس فريق التنبئة المستدامة

بإشراف
الدكتور هادي لسانة
رئيس جامعة البحرين

بإشراف
الدكتور هادي لسانة
رئيس جامعة البحرين






بإشراف السيد رئيس جامعة البصرة
الأستاذ الدكتور عبد عبد العزيز الشاوي المحترم
وإشراف السيد عميد كلية اقتصاديات الأعمال
الأستاذ الدكتور نغم حسين نعمة المحترمة

تنظم كلية اقتصاديات الأعمال في جامعة البصرة ورشة العمل الموسومة :
(دور المرأة في تحقيق التنمية المستدامة)

تقديماً للمبادرة وإذاعة مجيل عنصاته /مختبر/ مسؤوليات التبريد والدراسات و في وزارة
المالية، وذلك في تمام الساعة العاشرة من صباح يوم الأربعاء الموافق 2022/10/30،
في قاعة جولة /كلية الهندسة/


التعليم العالي
 HIGHER EDUCATION


المرأة
 WOMEN


المعرفة
 KNOWLEDGE


الصحة
 HEALTH


البيئة
 ENVIRONMENT


المجتمع
 SOCIETY


المستدامة
 SUSTAINABLE


التنمية
 DEVELOPMENT


العدالة
 JUSTICE


الاقتصاد
 ECONOMY


المالية
 FINANCE


الطاقة
 ENERGY


الأهداف
 GOALS


الزراعة
 AGRICULTURE


البيئة
 ENVIRONMENT


الابتكار
 INNOVATION


المياه
 WATER


الرؤية
 VISION



Recording **LIVE** on Facebook

 Mohammad Al Hamouh	 Mohamed Aljanabi	 Hatem Chakroun	 Mohamed Elagati
 Abdelmawla Is...	 ALI FARIS	 Emad Dawood	 Asma Noulra
 أبو ذؤيب	 د. حنان أحمد محمد	 Fadil	 د. امنية علي
 HN	 Nisreen Alisawi	 Afifa	 azza ahmed
 Dr. Ahmed Mashaan	 Wael Gamal	 مشاتي طلب	 kafi
 د.علي التميمي حميد			




برعاية السيد رئيس جامعة النهرين
الاستاذ الدكتور علي عبد العزيز الشاوي المحترم
وبإشراف السيدة عميد كلية اقتصاديات الاعمال
الاستاذ الدكتور تغح حسين نعمة المحترمة

تنظم كلية اقتصاديات الاعمال الندوة العلمية الدولية الموسومة :

(تطبيقات الاقتصاد الاخضر وأمكانية الاستفادة منها في العراق)

يقدمها الاستاذ الدكتور نوزاد عبد الرحمن الهيتي/أستاذ الاقتصاد السياسي في المعهد
الدبلوماسي/ دولة قطر وذلك في مساء يوم السبت الموافق 2021/2/27 .

على برنامج FCC
الرمز: bizco2009

في تمام الساعة الثامنة مساءا حسب توقيت بغداد.

وسيتم منح شهادات بالحضور



أ.د. نوزاد عبد الرحمن الهيتي




إنهم يظلم إدارة مركزاً للثقافات أصبح من أهم عناصر أسرار البعثات إدارة الثقافات لإيجاد توجه خاص نحو جميع الثقافات والتخلص منها وإبتكار أساليب إقليمية وقبيلية والصناعات لإنتاج الكهرايه منها وهذا يحتاج إلى إقايام مختلف إستعدادات مثل الجمع والتخصص والمعالجة والإستثمار والإستراتيجية الحديثة للإنتاجات الحديثة في هذه المجالات للوصول إلى الهدف في المتكوه وهو الإنتاج الكهرايه.

هدف المؤتمر:

الهدف من المؤتمر هو : بيان مدى إمكانية إستفادة الحكومة العراقية من هذه الدراسات المتكوه من قبل الباحثين الصينيين وإنتاج لإنتاج الثقافة الكهرايه من الثقافات في العراق لإحداث ثورة في الطريقة التي تعد بها الصناعات والشركات التجارية بإطاعة الكهرايه لمساعدة خطط التنمية الاقتصادية المتكوه في العراق. هدف المحافظة على الواقع البيئي وتقليل نسبة الأمراض المنتشرة.

مركز بحوث التراث والثقافة المتكوه الكهرايه
جامعة الكوفة

مدير مركز بحوث التراث والثقافة المتكوه الكهرايه
الإستاذ الدكتور كريم خلف المحترم

يقيم قسم ثقافة التراث الكهرايه المتكوه الكهرايه
(الأقراص التي يتكون):

((دور معالجة الثقافات في دعم مشاريع الطاقة المتكاهمة وزيادة الدخل الوطني))

في تمام الساعة التاسعة في يوم الاثنين والثلاثاء
المستهدف:

٢٠١١/١٣/٢٢

محاور المؤتمر:

١) إدارة العلاقات (معالجة، الصناعة، التجارية)
٢) استخدام الطاقات البديلة في معالجة الثقافات
٣) الإستثمار والتعاطف



برعاية السيد رئيس جامعة البصرة
الأستاذ الدكتور علي عبد العزيز الشاوي المحترم
وبإشراف السيدة عميد كلية اقتصاديات الأعمال
الأستاذ الدكتورة نغم حسين نعمة المحترمة

تنظم كلية اقتصاديات الأعمال .
ندوة علمية بعنوان :
(التقرير الطوعي الثاني لأهداف التنمية المستدامة في العراق 2021)

تقدمها الأستاذ الدكتور دواء جعفر المهادي التدريسية في كلية الإدارة .
والاقتصاد/الجامعة المستنصرية وذلك في يوم الأحد الموافق 2021/7/18 .

على برنامج FCC
الرمز: bizco2009
في تمام الساعة 8 مساءً حسب توقيت بغداد.


أ.د. دواء جعفر المهادي



University : Al –Nahrain University
Country : Iraq

Total number of **cultural activities on campus** organized by the University : more than 3 **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



University : Al –Nahrain University
Country : Iraq

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

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

Evidance: <http://engar.nahrainuniv.edu.iq/>

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

Evidance: <https://eco.nahrainuniv.edu.iq/?p=12505>

Evidance: <https://eco.nahrainuniv.edu.iq/?p=13318>

Evidance: <https://eco.nahrainuniv.edu.iq/?p=12285>

Evidance: <https://nahrainuniv.edu.iq/ar/node/8771>



University : Al –Nahrain University
Country : Iraq

[6.14] Number of university program(s) to improve teaching and learning

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





University : Al –Nahrain University
Country : Iraq

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

اسم المستخدم:
كلمة المرور:
☐ تذكرني في المرة القادمة.

عنوان اتصالك 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.



University : Al –Nahrain University
Country : Iraq

دورة تنمية مهارات التعلم الإلكتروني للطلاب الجامعي
(This class is intended for technical support to the students & training the Google and Moodle ...)
Class code gjvzly7

Meet
Join
Visible to students

Announce something to your class

Dr. Shaima Safa aldin posted a new question: (يمكنك كتابة 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>



University : Al –Nahrain University
Country : Iraq

Google Classroom

6th Stage Final Exams
كلية الطب
جامعة النهرين

1st Stage Final Exams
كلية الطب
جامعة النهرين

SPSS (Ph.D.)
كلية الطب
جامعة النهرين

Research De

(Higher Diploma) Postgraduate
Chemistry & Biochemistry Dep.
جامعة النهرين

Postgraduate (Ph.D.)
Physiology Dep.
جامعة النهرين

Postgraduate (Ph.D.)
Pathology&Forensic Medicine Dep.

Postgraduate
Microbiology Dep.

edpuzzle

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Curriculum

Nahrain University

My Content

Logic Design
Lecture 8 - VHDL and Verilog HDL
Author: Dr. Hana
Al-Nahrain University, College of Engineering
Department of Electrical Engineering
Electrical Engineering

Logic Design
Lecture 7 - Sequential Logic Circuits
Author: Dr. Hana
Al-Nahrain University, College of Engineering
Department of Electrical Engineering
Electrical Engineering

Logic Design
Lecture 6 - Flip-Flops, Registers and Memory
Author: Dr. Hana
Al-Nahrain University, College of Engineering
Department of Electrical Engineering
Electrical Engineering

Logic Design
Lecture 5 - Multiplexer and Demultiplexer
Author: Dr. Hana
Al-Nahrain University, College of Engineering
Department of Electrical Engineering
Electrical Engineering

1:00:01

1:01:05

1:08:47

33:04

Lecture 8 - VHDL and Verilog HDL


Lecture 7 - Sequential Logic Circuits

Lecture 6 - Flip-Flops, Registers and Memory

Lecture 5 - Multiplexer and Demultiplexer



University : Al –Nahrain University
Country : Iraq




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

Department of Networks Engineering

Dashboard Courses College of Information Engineering 2019-2020 Department of Networks Engineering

Course categories:

College of Information Engineering / 2019-2020 / Department of Networks Engineering


Search courses 

1 2 *

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


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





[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 and Economics



College of Pharmacy




College of Education



[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 and Economics



College of Pharmacy



College of Education



University : Al –Nahrain University
Country : Iraq

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

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.

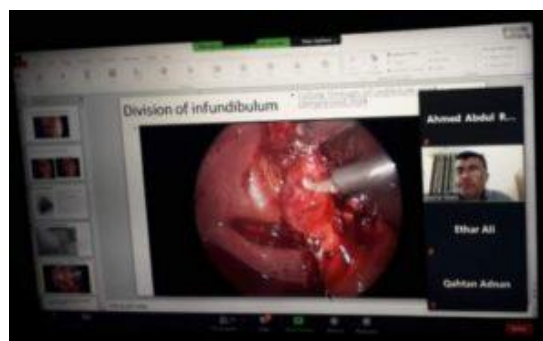
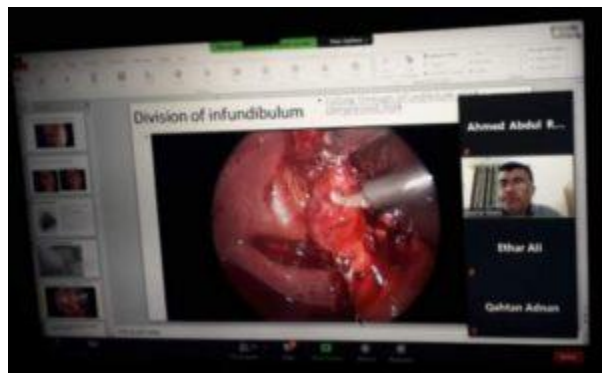
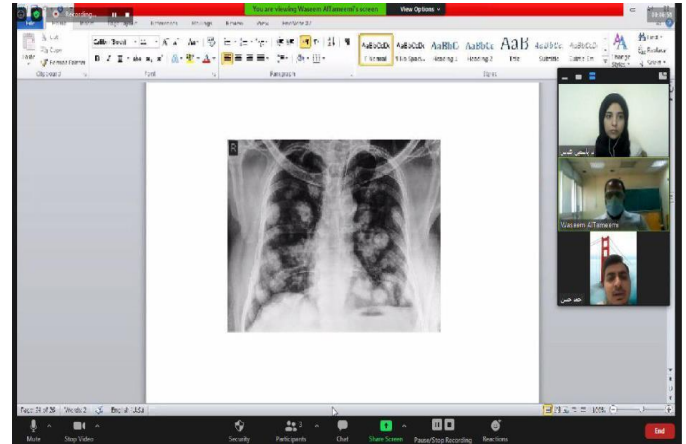
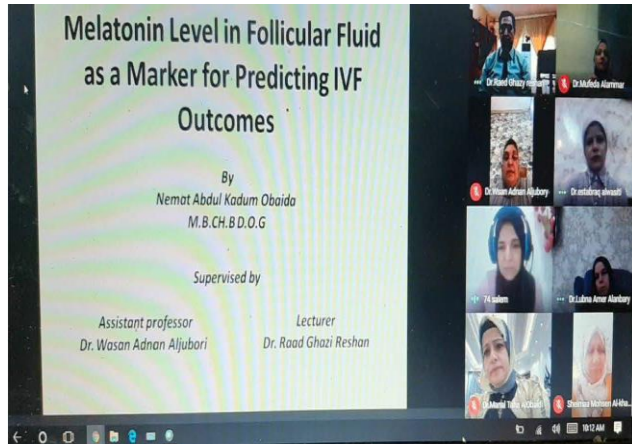
The symposium, which was given by Dr. Bashar Abbas Abdel Hassan, aimed to identify the traps and mistakes that the surgeon makes during the procedure for removing the gallbladder bag.

The workshop included several axes, including a review of mistakes and traps that the surgeon may fall into during laparoscopic excision of the



University : Al –Nahrain University
Country : Iraq

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.





University : Al –Nahrain University
Country : Iraq

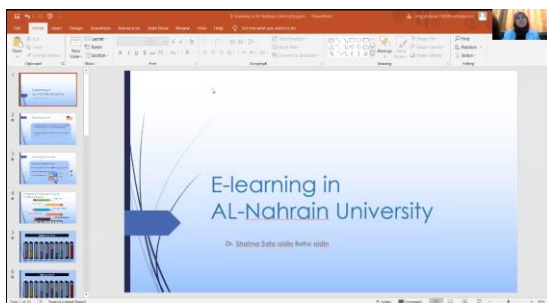
2- Annual electronic conference under the slogan of education and electronic platforms in Iraq.

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.

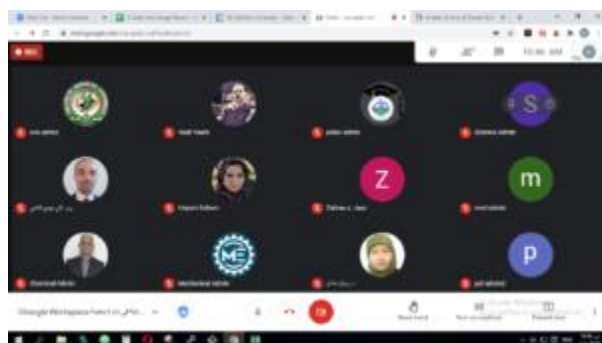




University : Al –Nahrain University
Country : Iraq

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”:

University : Al –Nahrain University
Country : Iraq



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 الحصري
لشركة أنتاس

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.Nagori'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



University : Al –Nahrain University
Country : Iraq

2

Al-Nahrain University
College of Information Engineering
E-Learning System
نظام التعلم الإلكتروني
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 بلال علي Zakria bilal ali	zakriabilal90@gmail.com	Submitted for grading	Grade	Edit	Monday, 17 August 2020, 12:54 PM	FYP_2019-2020
<input type="checkbox"/>		نور محمد خليل nuha Raed khaled	nuharaaed97@gmail.com	Submitted for grading	Grade	Edit	Sunday, 16 August 2020, 6:41 PM	FYP_2019-2020
<input type="checkbox"/>		باتول محمد سمعان Batool mohsin saadullah	batoolmohsin19@gmail.com	Submitted for grading	Grade	Edit	Sunday, 16 August 2020, 11:03 PM	FYP_2019-2020
<input type="checkbox"/>		زينب جاسم عبد Zainab Jassem	zainabjassem9931@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/playlists

5- Some online Quizzes:



quiz 1 med. phys.

نظري

Your email address (dr.rusul.adnan@ced.nahrainuniv.edu.iq) will be recorded when you submit this form. Not you? [Switch account](#)

الاسم الثلاثي

Your answer

Next

Page 1 of 5

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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

Back Next

Page 2 of 5

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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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[6-15] 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	2	40	SI, ED
Courses and subjects	Total Quality Management	3	56	SI, EC, WS, WR, TR, ED
Workshop	Waste treatment	2	30	WS

Al-Nahrain University donated books, cars, agricultural equipment, plants, and forest during the year 2019/2020 to universities within the same country.



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[6-16] 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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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 owns apiaries to produce honey and produce large quantities of it, and the university sells honey on campus.



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 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



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



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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Visions and future goals of Al-Nahrain University according to the indicators of the green metric classification

The first axis:

Al-Nahrain University seeks to increase the green spaces on the campus by planting forest trees, small plants and roses

We have a strategic future plan that helps improve the climate at the university level and the surrounding area, and use the students in community service activities to contribute to the agricultural process and to spread and achieve a culture of sustainability.

We have a plan to establish two artificial lakes inside the university campus to take advantage of the rainwater collected during the year and use it in the irrigation process in the coming seasons.

There is a future plan at Al-Nahrain University to increase the maximization of water resources and benefit from them in the development of sustainable development items related to the environment and climate change through the Al-Nahrain Research Center for Renewable Energy and the Biotechnology Research Center, which are within the formations of Al-Nahrain University.

The second axis:

We have a five-year plan to fully supply the university buildings with solar energy.

We have a plan to construct four buildings with a range from 2022 to 2027, including smart building specifications.

The Sustainability Unit in the College of Business Economics at Al-Nahrain University is responsible for developing a plan for spreading

shade and climbing plants inside and outside the buildings to achieve the principle of green buildings.

The third axis:

We are in the process of conducting a feasibility study to recycle the university's organic and inorganic waste and offer it for investment to the private sector.

fourth Axis :

We have a plan to establish several rainwater drainage channels in the corridors of the university and within five years

Sixth Axis:

Al-Nahrain University is working to develop study materials for university students related to the environment and food that support the culture of sustainable development for students of Al-Nahrain University.