



جامعة الإمام عبد الرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY



SDG 7.4.5

Assistance to Low-
Carbon Innovation

2024-2025

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Imam Abdulrahman Bin Faisal University (IAU) provides assistance to low carbon innovation and participated/hosted various energy efficiency and carbon reduction related events within and outside the campus.

Find below some of our low carbon innovation related activities.

1. IAU Engineering Students Planting Mangrove Seedlings in coincide with World Wetlands Day

#College_of_Engineering is pleased to participate for the third consecutive year in **planting mangrove seedlings on Tarout Island, upon a generous invitation from the National Center for Vegetation Cover Development, coinciding with World Wetlands Day,** to promote environmental sustainability and support the Kingdom's Vision 2030.



https://x.com/CE_IAU_SA/status/1887367250815881510

2. IAU Students participated in the initiative "Awareness Everywhere and with Every Voice" along with the "Our Green Footprint Environmental" team

The Student Council at #College_of_Public_Health participated in the initiative "Awareness Everywhere and with Every Voice" in collaboration with the "Our Green Footprint Environmental" team at Al-Khobar Corniche.

The initiative included awareness booths representing various countries around the world, where environmental risks in these countries were showcased, along with how they managed to overcome them and find effective solutions.



https://x.com/IAU_CPH/status/1853388342429188343

3. IAU launched the seventh edition of the "Green Carbon-Free University" initiative.

Under the patronage of His Excellency the President of #Imam_Abdulrahman_Bin_Faisal_University, Prof. Fahd Al-Harbi, the university participated in activating "Planting Season 2025" and launching the seventh edition of the "Green Carbon-Free University" initiative, which is organized by the General Department of Community Responsibility and Volunteer Work in cooperation with the General Department of Facilities at the university, under the umbrella of community partnership with the branch of the Ministry of Environment, Water and Agriculture and the branch of the National Center for Vegetation Cover Development and Combating Desertification in the Eastern Region.



https://x.com/IAU_KSA/status/1984613148251271326

https://x.com/IAU_KSA/status/1984613216081629684

4. Tree Planting Season – Second Annual Edition by IAU

This post comes as confirmation of the leaders' interest in achieving the national target toward developing the vegetative cover, and as a direct response to the directives of His Royal Highness the Emir of the Eastern Region—may God preserve him—**toward enhancing community, environmental, and developmental momentum at the regional level, and engaging with the Tree Planting Season in its second annual edition.**



https://x.com/IAU_KSA/status/1984613180320981341

5. Participation of IAU security personnel and medical crews in the Green Carbon Free University initiative.

This post describes the participation of IAU security personnel and medical crews in the Green Carbon Free University initiative.



https://x.com/IAU_KSA/status/1984614776694055348

6. Dialogue session on "Future Energy and 500 Days of Work" at IAU

An aspect of the dialogue session "Future Energy and 500 Days of Work" Hosted by Professor Dr. Fahad Al-Omari and in partnership with the Cultural Club, the session addressed important and enriching topics in the field of energy and its sources.



https://x.com/coec_iau/status/1788278005501976664

7. IAU Role in "Awareness Everywhere and with Every Voice" initiative launched by "Our Green Footprint Environmental team"

The "Awareness Everywhere and in Every Language" initiative launched by the Our Green Footprint environmental team under the #Eastern_Creativity initiative, with the participation of the council and the student club at #College_of_Public_Health



https://x.com/IAU_CPH/status/1853898495478190161

8. IAU College of Engineering Students won Second Place for Project producing Biofuel from Coffee Beans

We are proud of the Achievement of the students of #College_of_Engineering from the Department of Mechanical Engineering and Energy, Abdullah Al-Harbi, Jarrah Al-Qassim, Saud Al-Sarhani, Ibrahim Al-Yousifi, and Ghazi Al-Otaibi, who secured second place in the CITethon Hackathon with their project to produce biofuel from coffee beans.



https://x.com/CE_IAU_SA/status/1912918031505686531

10. Zero Emission Vehicles (ZEV) Policy on Campus to promote Carbon Free Campus





Saudi Gazette @Saudi_Gazette

Dr. Abdullah Al-Rubaish, president of Imam Abdulrahman Bin Faisal University, Dammam, launched the Smart Mobility initiative at the lobby of the College of Architecture and Planning on the university campus. @UOD_EDU_SA



saudi gazette.com.sa
Smart Mobility Initiative launched on Dammam university campus
The initiative, which was commissioned by the Deanship of Community Service and Sustainable Development, comes as part of using clean energy within the ...

3:30 AM · Oct 1, 2021 · TweetDeck

15 Retweets 45 Likes

E-Scooter Initiative at IAU



SHUTTLE OPTION 1

MotoEV Electro Transit Buddy 15 Passenger LE Hard Door Shuttle



SHUTTLE OPTION 2

Marsheer DN-14C Series 14-Seater Enclosed Electric Resort Car

Features

- 1. 20 seats capacity, 18 seats capacity (with 2 seats reserved for wheelchair users)
- 2. 20 seats capacity, 18 seats capacity (with 2 seats reserved for wheelchair users)
- 3. 20 seats capacity, 18 seats capacity (with 2 seats reserved for wheelchair users)
- 4. 20 seats capacity, 18 seats capacity (with 2 seats reserved for wheelchair users)
- 5. 20 seats capacity, 18 seats capacity (with 2 seats reserved for wheelchair users)
- 6. 20 seats capacity, 18 seats capacity (with 2 seats reserved for wheelchair users)
- 7. 20 seats capacity, 18 seats capacity (with 2 seats reserved for wheelchair users)

Performance	Electrical	Mechanical
Max Speed: 40 km/h	Power: 20 kW	Max. Torque: 100 Nm
Max. Range: 100 km	Max. Voltage: 48V DC	Max. Current: 400 A
Max. Load: 1500 kg	Max. Power: 20 kW	Max. Torque: 100 Nm
Max. Speed: 40 km/h	Max. Voltage: 48V DC	Max. Current: 400 A

Average price: 22,995\$



E-Scooters for faculty, students and staff

2- Electric and affordable shuttle buses

Description:**1. E-Scooter Initiative for Staff & Students in IAU**

Dr. Abdullah Al-Rubaish, president of Imam Abdulrahman Bin Faisal University, Dammam, launched the Smart Mobility initiative as a part of the Zero Emission Vehicles (ZEV) Policy on the IAU Campus.

The initiative, which was commissioned by the Deanship of Community Service and Sustainable Development, comes as part of using clean energy within the university campus and making available its health benefits to the members of the campus community.

Dr. Al-Rubaish said that the university launched the pilot phase of the smart mobility service to achieve the Kingdom's Vision 2030 towards providing new opportunities for transportation. "This initiative is achieved through generating clean energy within the university campus by bicycles and e-scooters with the WAYZ application, which will facilitate for its users the rapid mobility feature at the university through an electronic mobile application," he added. This novel experiment is based on using clean energy for mobility inside the university campus.

IAU launched the initiative of 'Green University without Carbon,' under which these scooters, which are charged and operated with solar energy, will be used. It is a service available to all educational and administrative staffers of the university and to male and female students.

Dr. Fatima, Dean of the Deanship of Community Service and Sustainable Development, mentioned that the goal is to be sustainable through the presence of solar-powered stations. It is the beginning of an experimental start, and work is continuing to equip stations to charge these devices powered by solar energy.

This initiative will facilitate their freedom of movement without cars, and the initiative received much encouragement

Moreover, demand," she said while noting that safe corridors have been provided inside the university campus.

This is one of our priorities to ensure the safety of the beneficiaries of this service, and it will be included in the first stage inside the university campus until the infrastructure and private roads are provided at the university for this type of initiative that is reflected in reducing the proportion of carbon.

2. Electric and affordable shuttle buses & Bike services

A broad network of bus and shuttle bus services will be provided to help IAU faculty and students travel within the campus and between campuses in a convenient, fast, and stress-free way. The IAU buses and shuttles enable everyone to park either on the university campus or

select one of the specified locations closer to their residential neighborhoods and then use university transportation throughout their day.



IAU SHUTTLE



IAU BIKE



IAU SHUTTLE

11. Smart Mobility Service launched by IAU

The given webpage link (refer to 1st and 2nd paragraph) shows that the president of IAU inaugurated the pilot phase of the smart mobility service for generating clean energy inside the university campus by bicycles and electric scooters through (WAYZ) application on Al-Rakah campus. This initiative aims to achieve the Kingdom's Vision 2030 towards a greener society and reduce pollution and harmful emissions by relying on sustainable means of transportation using clean energy, for it has positive health aspects reflected in community members. It is a service available to all university employees, students, and visitors.



<https://www.iau.edu.sa/en/news/iau-launching-smart-mobility-service>

12. Carbon Reduction Initiatives by IAU

The given PDF link describes IAU's Green University initiatives without Carbon dioxide CO₂





An initiative IAU GREEN without CO2, inaugurated by H.E. the President of IAU



E-Scooter initiative in IAU, in an effort to reduce Greenhouse gas emission



جامعة الإمام عبد الرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY



E-Scooters on rent for Staff & students, an initiative by IAU, to reduce Greenhouse gas emission



SMART TRANSPORTATION INSIDE IAU Campus

Tweet
عمادة خدمة المجتمع والتنمية المستدامة @IAU_Staff
To the university members, before starting your WAZZ ride please read the riding rules and instructions, and to know how to use e-bicycles and the e-scooter in 4 steps to start the journey.
#عمادة_خدمة_المجتمع_والتنمية_المستدامة
#جامعة_الإمام_عبد_الرحمن_بن_فَيْصَل

Steps to ways
خطوات سيطرة الرحلة

- 01 Download the app
تحميل التطبيق
- 02 Scan QR Code
مسح الرمز الإلكتروني
- 03 Open the app
افتح التطبيق
- 04 Unlock & go
تحرير و اذهب

How to end ride
كيف تنتهي الرحلة

Take a picture for your E-bike/E-scooter
خذ صورة للمركبة بعد التوقف

Park at ways parking zones
توقف المركبة في أماكن الوقوف المخصصة

Need support
تحتاج لمساعدة
Look for ways support team
توجهوا لفريق الدعم

RIDING RULES
ارشادات الركوب

- End ride at Ways parking zones
انتهى الرحلة في أماكن الوقوف المخصصة
- One rider per vehicle
راكب واحد لكل دراجة/مركبة كهربائية
- Don't use your mobile while riding
لا تستخدم الهاتف أثناء الرحلة
- Check the breaks before riding
تحقق من المكابح قبل الرحلة
- Be mindful of road obstructions
انتبه من عوائق الطريق
- Do not ride on the sidewalks
لا تتركب الدراجة خارج المسلك
- You are 16 years and older
عمر 16 سنة و ما فوق
- A helmet is required
يجب ارتداء الخوذة دائما

How to end ride
كيف تنتهي الرحلة

Take a picture for your E-bike/E-scooter
خذ صورة للمركبة بعد التوقف

Park at ways parking zones
انتهى الرحلة في أماكن الوقوف المخصصة

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Look for ways support team
توجهوا لفريق الدعم

WAYS Solutions
are now activated
خدمات ويز الآن مفعلة
ومساعدة لجميع الطلاب

تتشرف جامعة الإمام عبد الرحمن بن فيصل ممثلة بمهدة خدمة المجتمع والتنمية المستدامة بإطلاق المرحلة التجريبية لخدمة التنقل الذكي من خلال توليد الطاقة النظيفة داخل الحرم الجامعي بواسطة الدراجات والسكوتر الإلكتروني من خلال تطبيق WAYS

WEAR A HELMET!
ارتد خوذةك!

حمل التطبيق الآن
Download on the App Store
Available on the Google Play

جامعة الإمام عبد الرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY
مهداة لخدمة المجتمع والتنمية المستدامة
بمبادرة جامعة الإمام عبد الرحمن بن فيصل

WAYS

WAYS App launched to monitor and guide the E-Scooter riders

https://www.iau.edu.sa/sites/default/files/resources/carbon_reduction_2022.pdf

13. Program to Limit carbon reduction

There are an ample number of programs that the university has proposed and adopted to limit or reduce the parking area on Campus. IAU is in a position to reduce dependency on cars on Campus. The university has to provide an easy, green, and accessible pedestrian system along with E-scooters or E-Bikes and a green transport system, including carpool and taxi booking via the university website.

1. Shuttle/bus campus inside campus

To reduce the number of private vehicles and their movement on the campus, IAU has launched various shuttle services for the students and staff. It has its fleet of buses besides contracts with other transport companies. Also, it has about 419 cars for its staff to move around its six campuses.

The university has 21, 30-seater shuttles with a carrying capacity of 630 passengers. It has contracted with Abu Aiban transportation company, which provides various buses transporting the students and staff from inside and outside the IAU campus. Abu Aiban runs about 133 buses.

There is no bus service served by the local buses to the university. The university shuttle services run from 6 AM to 6 PM g at various stops in the university.

Thus, it is an initiative to reduce the use of cars to save energy and fuel.

2. E-Scooter also launched to reduce the parking area in the campus

The Deanship of Community Service and Sustainable Development commissioned this initiative, which is formed as a part of utilizing clean energy within the university campus and making available its health benefits to the members of the campus community, including reducing the parking space.

It is the pilot phase of the smart mobility service to achieve the Kingdom's Vision 2030 towards providing new opportunities for transportation. "This initiative is executed through generating clean energy within the university campus by bicycles and e-scooters with the WAYZ application, which will facilitate for its users the rapid mobility feature at the university through an electronic mobile application." The Novel experiment is based on using clean energy for mobility inside the university campus.

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- <https://www.youtube.com/watch?v=eBmbc577Cv4>
- https://twitter.com/UOD_EDU_SA/status/1443889138315431936/photo/1
- <https://saudigazette.com.sa/article/611596>

14. Pedestrian paths (To control/limit commuting inside campus in vehicles to reduce carbon emissions)



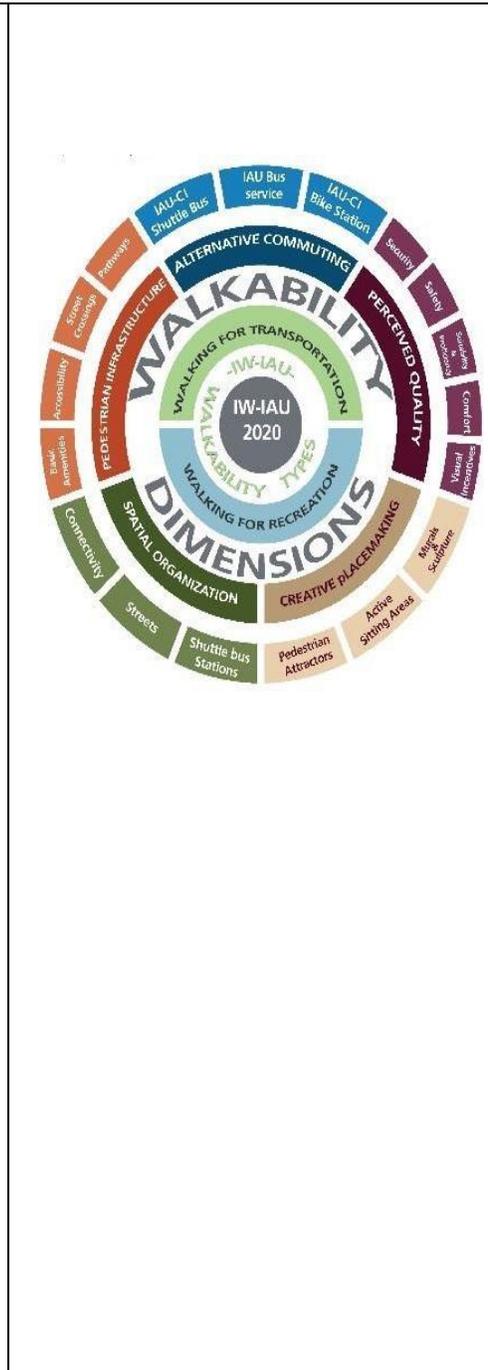
1- Pedestrian path



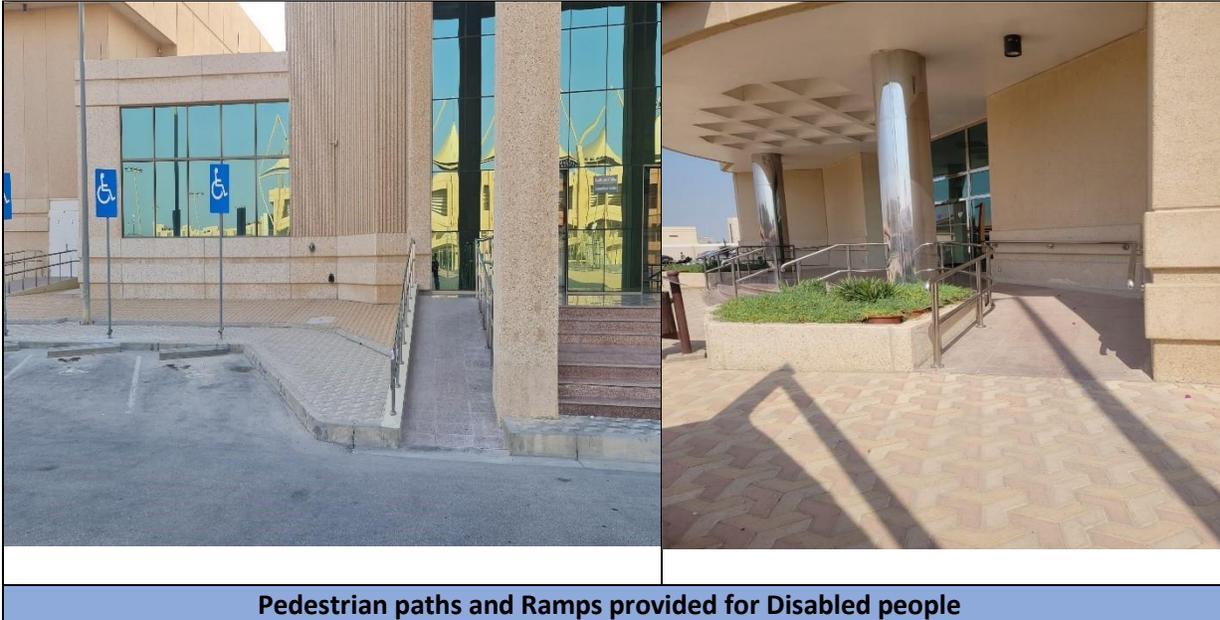
2- Solar Street lamp for pedestrian in night



3- Inclusive Walkability System



4- SUSTAINABLE & WALKABLE CAMPUSES DIMENSIONS



Pedestrian paths and Ramps provided for Disabled people

Description:

1. **Zebra crossing** is painted clearly for vehicles to watch before crossing, separator is made between road for vehicle and pedestrian path. Ramps and guiding blocks which have suitable design for pedestrian having physical disabilities.
2. Street lamp for **pedestrian in night**. Mostly, streetlamps use solar streetlights.

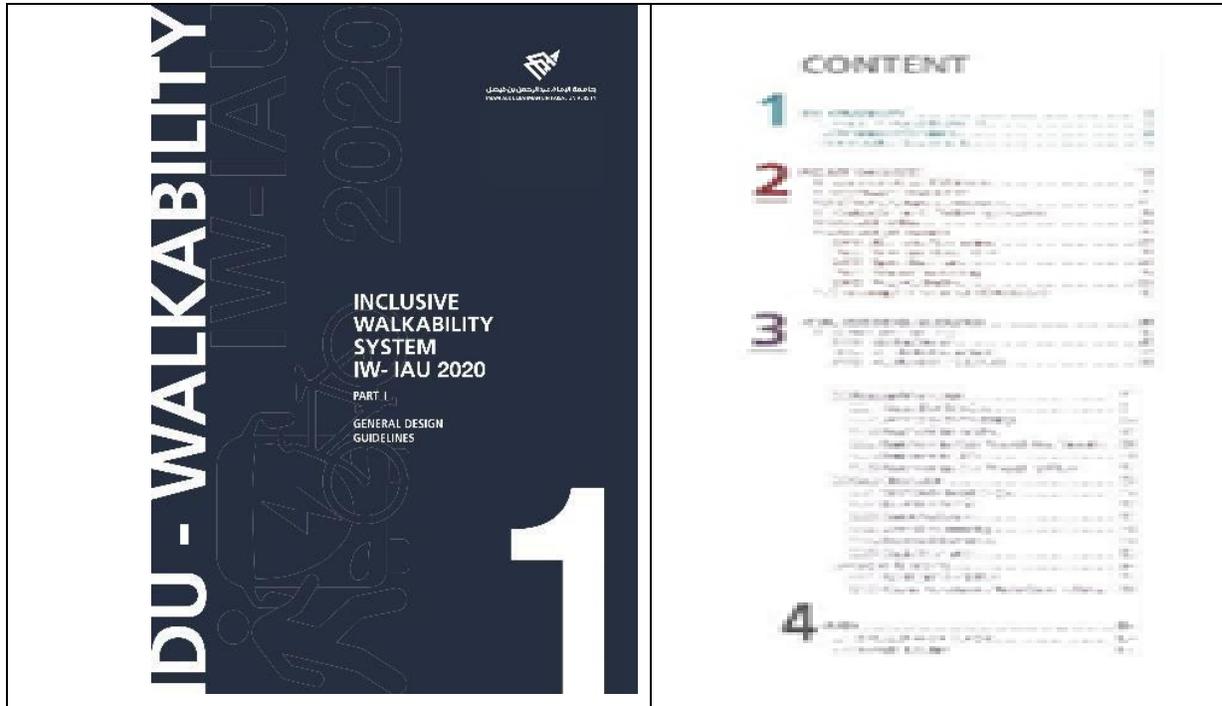
3. **Sustainable and Walkable Campuses**

4. The Inclusive Walkability (IW) System of the IAU University- IW-IAU 2020
 The Inclusive Walkability System of the IAU university- IW-IAU 2020 is designed by the Inclusive Design Unit-Walkability Branch. It aims to transform university campus settings into an enabler, safer, more convenient, and enjoyable environment for walking, cycling, and other outdoor activities. The proposal thus aims to determine pedestrian environment determinants associated with active and leisure transportation and, therefore, to direct the existing assets to improve walking and cycling and integrate them into an inclusive system for walkability adapted to the Imam Abdurrahman Bin Faisal University.

The IW-IAU 2020 project aims to achieve the Saudi 2030 Vision of transforming the IAU community into a vibrant society with a fulfilling life. Four principles were taken into consideration and interpreted via the IAU walkability dimensions and practices: Living healthy,

being healthy; Developing our cities; Achieving environmental sustainability, Promoting culture and entertainment.

The fully detailed project was approved and published in 2018. Since then, many of its components are currently implemented either entirely or as pilot projects.



Once the project's dimensions and features are fully implemented, the university campuses' settings and services will be transferred into a living laboratory for experiential learning, demonstrating progressive applied Studies in universal and sustainable operations within a lively and engaged community. The project is part of the IDU strategic schemes to enable the IAU to become a regional and global leader in inclusive and sustainable design interventions for other universities and organizations in the kingdom and the region to follow.

Objectives:

1. Decreasing congestion on roads to university campuses and within campuses.
2. Allowing public transport system for long-distance trips;
3. Inciting walking (the activity) and cycling as the preferred choice for shorter trips.



4. Improving walkability on campuses, i.e., the quality of walking conditions, including safety, comfort, and convenience.
5. Empowering career and life perspectives for students and new graduates.
6. Creating a greener urban environment.

4. SUSTAINABLE AND WALKABLE CAMPUSES DIMENSIONS:

The IW-IAU strategy provides five walkability dimensions that are claimed to affect the university's level of mobility positively:

- | | | |
|-------------------------------------|--------------------------------|-----------------------------|
| (1) Alternative Green
Commuting, | (2) Pedestrian Infrastructure, | (5) Perceived
Qualities. |
| (3) Spatial Organization, | (4) Creative Placemaking, and | |

5. Pedestrian Pathways

As it is depicted in the maps of East & West Campuses the pedestrian pathways are marked with dull peach color.

15. IAU BUS SERVICE (To reduce private vehicle's carbon emissions)

The IAU provides **nine lines of the bus to all its employees and students**. These buses connect IAU's six campuses and three major gathering points. Once they arrive at the bus terminal on each campus, students and employees can ride the shuttle bus to their destinations. The service will be free of cost with a valid ID card issued by IAU



Fleets of Shuttles at IAU

16. IAU-C1 SHUTTLE BUS SERVICE – Electric Busses

The university will offer all its students, faculty, and staff access to IAU• C 1's Shuttle Bus that serves the campus with its four sub-sections (East Campus, West Campus, Northern Colleges, and Residential Campus). This service is also free of charge. They **can access the shuttle bus at the closest** shuttle bus station. Service timings will be provided at the IAU site and in each Shuttle Bus station. The service will be free of charge with a valid IAU ID card.

SHUTTLE OPTION 1

MotoEV Electro Transit Buddy 15 Passenger LE Hard Door Shuttle

Model: MotoEV Electro Transit Buddy 15
 Dimensions: 11' x 4' x 6' 11" (H) (L) (W)
 Product Code: 15-100-1111
 Passenger Capacity: 15 People
 Vehicle Dimensions: 16' 5.5" x 4.5" x 6' 11" (L) (W) (H)
 Gross Vehicle Weight: 3,500 Lbs
 Weight Up to 2,200 Lbs
 Range Up to 20 Miles (100 Amps)
 Cycle Time: 30-45 min (100 Amps)
 Electric Motor: 1.5 kW (1.5 HP) (100 Amps)
 Max. Battery Voltage: 144V
 Max. Speed: 25 mph
 Ground Clearance: 7"

Features:
 • Battery: 100 Ah (100 Ah)
 • Charging: 100 Ah (100 Ah)
 • Seating: 15 Seats (15 Seats)
 • Four (4) Doors (Front, Side, Side, Rear)
 • Suspension: 100 Ah (100 Ah)
 • Drive: Four (4) Wheel
 • Body: Steel (Aluminum) (100 Ah)
 • Roof: 100 Ah (100 Ah)
 • Floor: 100 Ah (100 Ah)
 • Wheelbase: 100 Ah (100 Ah)
 • Wheel: 100 Ah (100 Ah)
 • Weight: 100 Ah (100 Ah)



2. SHUTTLE OPTION 2

Marsheil DN-14C Series 14-Seater Enclosed Electric Resort Car

Features

1. Reduced noise: Minimize noise levels and network in apartments, with strong damping capacity and low noise;
2. Reduced vibration: Efficient Road Noise Suppression Minimize noise and vibration;
3. Road handling: Reduce road noise and vibration; Minimize noise and vibration;
4. Drive for long use: Reduce noise and vibration; Minimize noise and vibration;
5. OE compliant: Service center;
6. Low maintenance: 180000 km (100000 miles) (100000 miles) (100000 miles);
7. Four (4) doors: Front, Side, Side, Rear (100000 miles) (100000 miles) (100000 miles);

Performance	Electrical	Mechanical
Seating Capacity: 14 (Seater)	Power Source: 220V AC	Motor: 1.5 kW (1.5 kW)
Max. Speed: 25 (mph)	Motor: DC/AC 220V or AC 220V 2.2kW	Drives: 4-wheeled (front/rear)
Traveling Range: 60-50 (km)	Consumption: 0.3 kWh/mile	Max. Speed: 25 (mph)
Charging Capacity: 20%	Charger: DC/AC 220V or DC/220V	Ground Clearance: 10 (cm)
Driving Range: 3.5 (mi)	Battery: 12V 20Ah	Length: 11' x 4' x 6' 11" (L) (W) (H)
Max. Turning Radius: 4.5 (m)	Weight: 1000 (kg)	Max. Weight: 3500 (kg)
Charging Capacity: 100% (kg)	Four (4) Doors: 1000 (kg)	Accessories: Speedometer, DC motor



Average price: 22,995\$

Suggested Electric and affordable shuttle buses



17. IAU-C1 BIKING SERVICE – Electric Bikes

The IAU will provide a bike-sharing system in which a bike station will be located in C1-Rakkah, and C2-Rayan Campuses and smart bicycles will be provided for the IAU users on a short-term basis. These services by IAU will be free of cost with a valid IAU ID card.

CLUB CAR (E-CART) AT IAU

The IAU provides E-cart service (Club car) to its employees and students so that they can move within the campuses. Such carts aid IAU to save energy and protect the environment. They also help IAU to achieve Zero emissions and Zero pollution. Further, this kind of service saves energy costs, has no noise, and a low failure rate.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file)

- <https://www.youtube.com/watch?v=eBmbc577Cv4>
- https://twitter.com/UOD_EDU_SA/status/1443889138315431936/photo/1
- <https://saudigazette.com.sa/article/611596>

