
AAU Sustainable Development Programme: Establishing a Roadmap towards a Green Built Environment

برنامج جامعة عمان الاهلية للتنمية المستدامة: وضع خارطة طريق نحو
بيئة مبنية خضراء

Vision of the programme

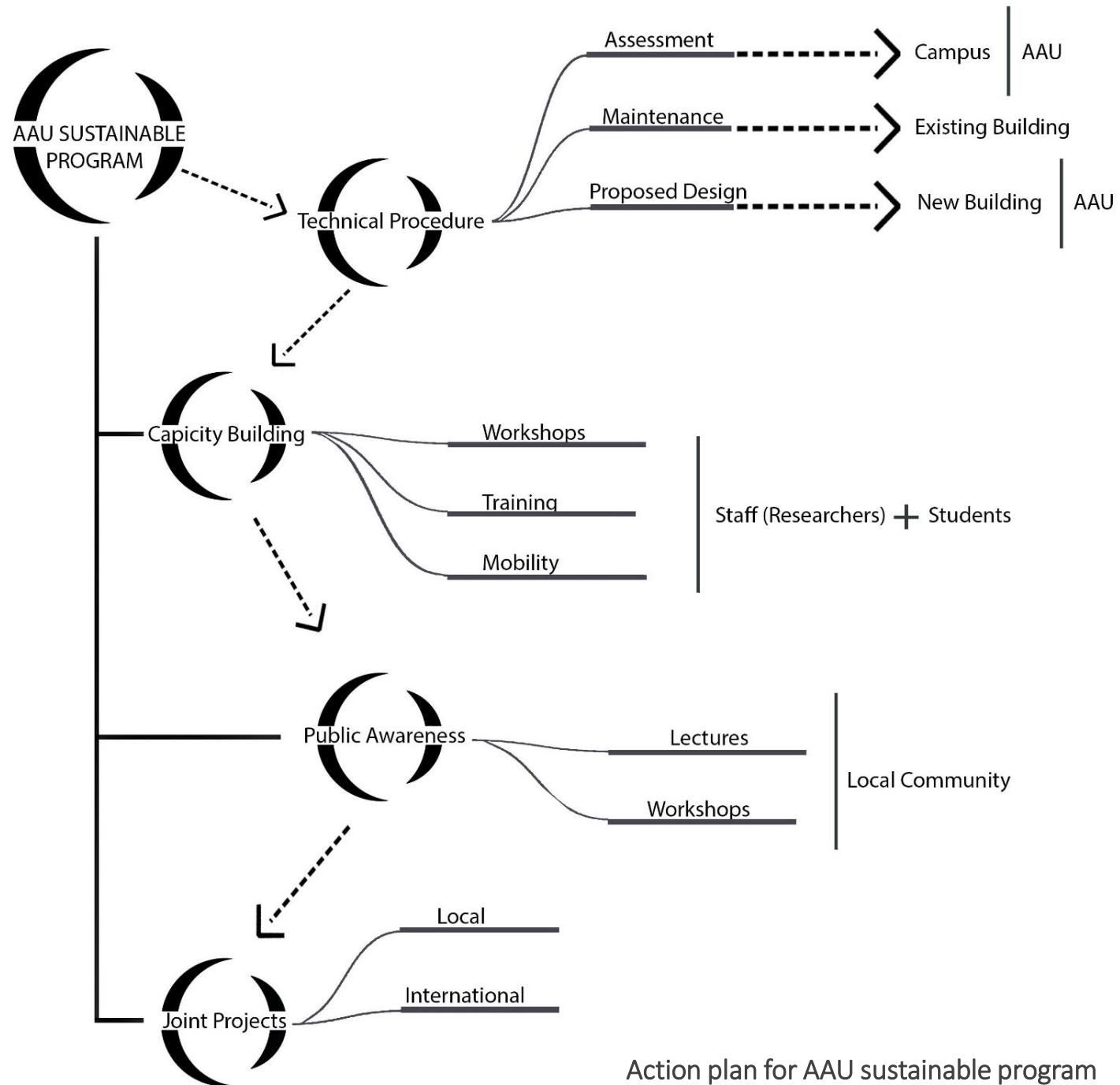
Promote construction and capacity for creating a high-performance built environment that is sustainable, comfortable, more energy and water-efficient, and environmentally responsible, according to the Jordanian context.

Mission of the programme

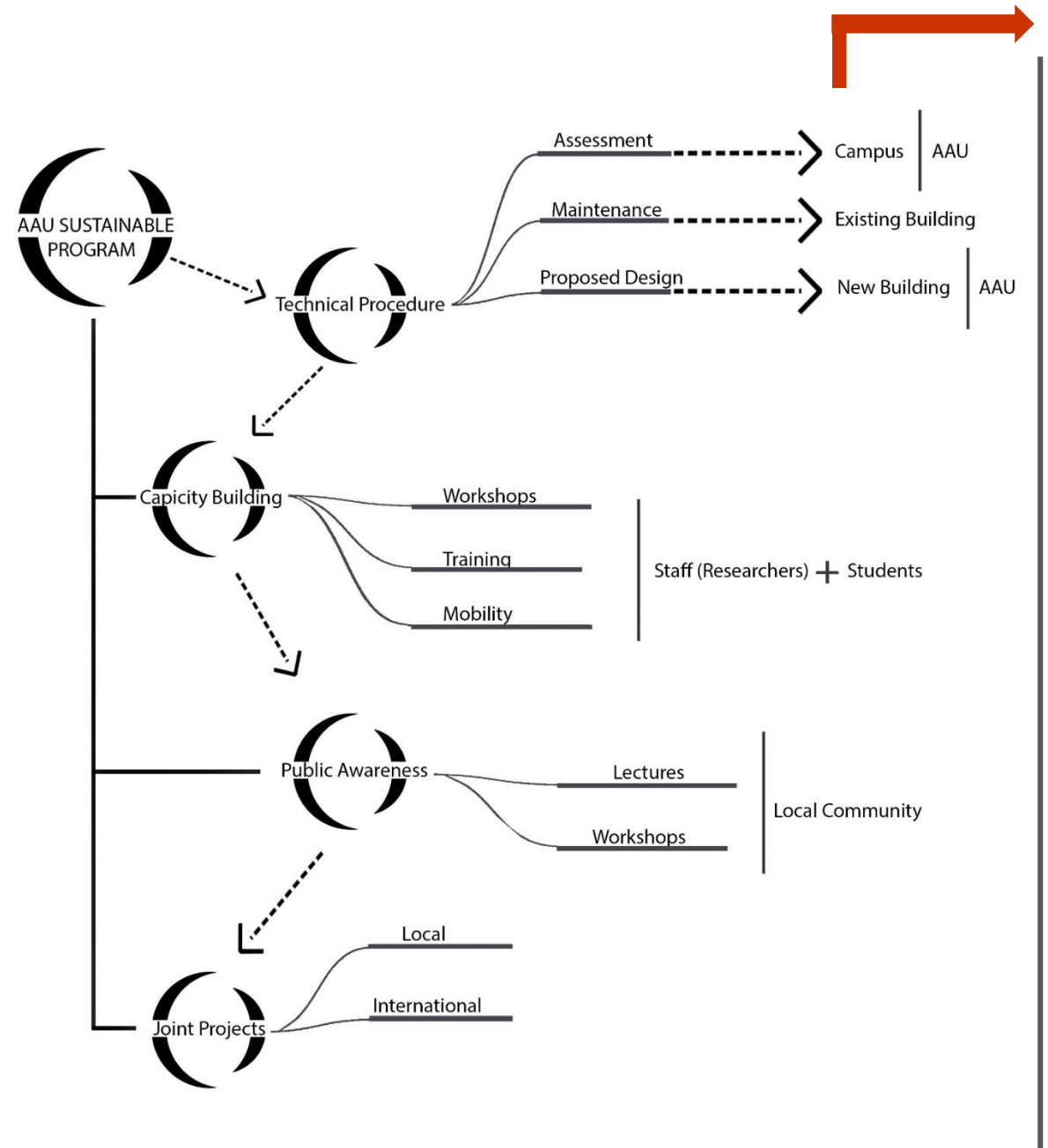
Achieve the social, environmental, and economic goals indicated in the vision by supporting and accelerating the adoption of green building construction, awareness, principles, education, policies, practices, standards, and tools. This plan will help to create sustainable architecture and sustainable communities that are environmentally responsible, profitable, and healthy places to live, work, and play.

Goals of the programme

- To promote environmentally responsible design and building methods and solutions based on Jordan's standards of green building.
- To contribute to capacity building for researchers and students at AAU.
- To participate in community awareness about sustainability.
- To build collaboration and establish new research links locally and internationally.



Action plan for AAU sustainable program



Towards a Sustainable University Campus: The case of AAU in Jordan

Aim: to achieve a World University Ranking in terms of green campus. Suggested accreditation is UI Green Metric World University Rankings Network (UIGWURN)).

Towards a Sustainable University Campus: The case of AAU in Jordan

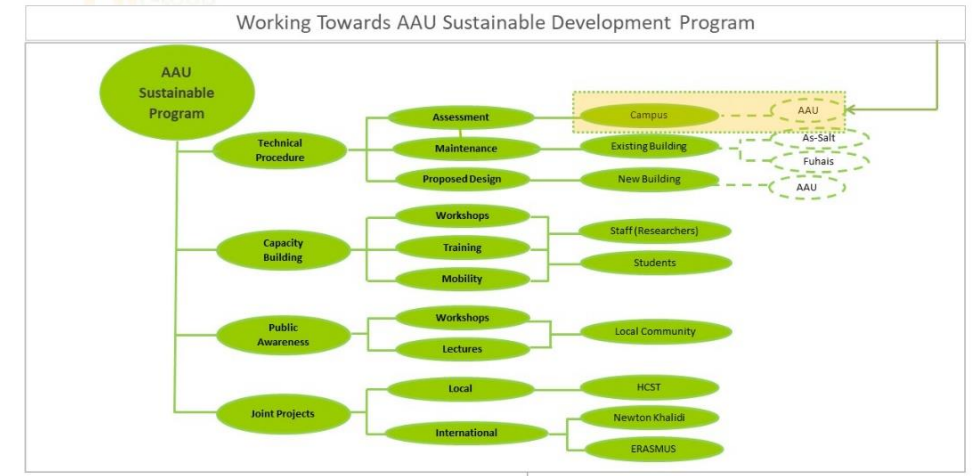


Saba Al-Nusairat, PhD
Zahraa Al-Shatnawi, MSc
Anan Kaakani, MSc



Goal

To achieve a **World University Ranking** in terms of green campus. Suggested accreditation is UI Green Metric World University Rankings Network (UIGWURN)).



Objectives

1. To investigate AAU campus sustainability in terms of different environmental and social categories used in the UI-Green Metric International rating system.
2. To demonstrate and develop (low cost- medium cost – high cost) strategies for a healthy and eco-friendly campus environment.
3. To promote university-led social change concerning sustainability goals.
4. To outline recommendations for constructing a sustainable environment in the AAU campus that can ensure accreditation of the campus in the UI Green Metric World University Ranking.
5. To participate as a member of UI Green Metric World University Rankings Network (UIGWURN).

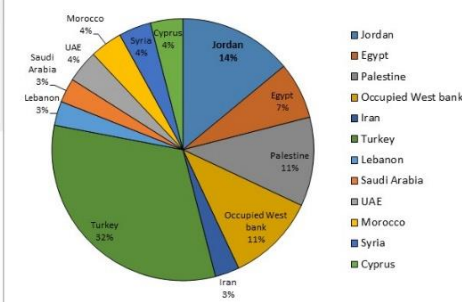
References

1. Lozano, R. (2010). Diffusion of sustainable development in universities' curricula: An empirical example from Cardiff University. J. Clean. Prod. 18, 637–644.
2. Tumbas, P.; Matkovic, P.; Sakal, M. and Pavlicevic, V. (2015). Sustainable university: Assessment tools, factors, measures and model. University of Novi Sad, Faculty of Economics Subotica (SERBIA).
3. UI GreenMetric WUR, Overall Ranking (2015). URL: <http://greenmetric.ui.ac.id/overall-ranking2015/>.

Sustainable University Campus UI Green Metric Rating Criteria



ME countries participation in green universities movement according to UI Green Metric



Towards a Sustainable University Campus: The case of AAU in Jordan

Project Highlights

New international rank 2019: UI GreenMetric

1 Annual report 2019

Sustainable website

4 Publications

1 Fulbright award (JFDP)

2 Workshops and awareness campaign



World University Ranking 2019 **256**

154



World University Ranking 2018 **410**

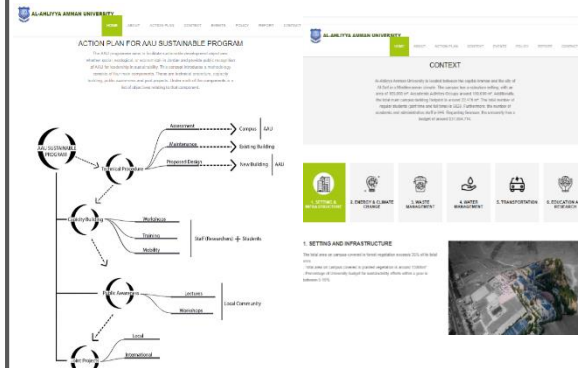
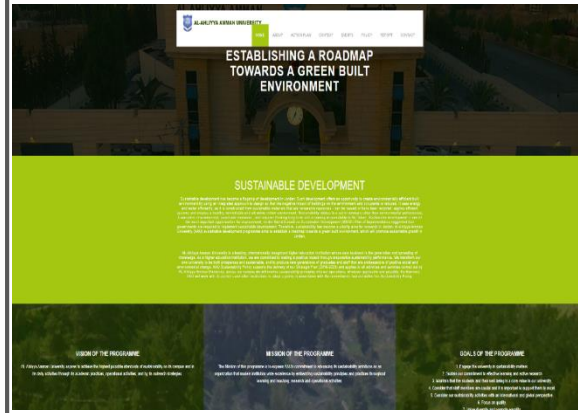


University: Al-Ahliyya Amman University
Country: Jordan
Web Address: <https://www.ammanu.edu.jo/English/Home/Home.aspx>



Topics of the project

1. Setting and Infrastructure
2. Energy and Climate Change
3. Waste Efficiency
4. Water Efficiency
5. Transportation
6. Education



<https://www.ammanu.edu.jo/English/Sustainability/Sustainability.aspx>

FORMAL INTRODUCTION TO AAU SUSTAINABLE PROGRAMME
 30 November 2019

WHAT DOES SUSTAINABILITY MEAN TO YOU?
 15 December 2019

HOW TO BE SUSTAINABLE?
 16 March 2020

FORMAL INTRODUCTION TO AAU SUSTAINABLE PROGRAMME
 30 November 2019

You are cordially invited to attend the lecture on "Formal Introduction to AAU Sustainable Programme" in Nizar Gabbani Auditorium @ 10:30 AM organised by Teaching And Learning Center

PLEA 2020 A CORUÑA

Dr. Saba Fawzi Almusairat
 Al-Ahliyya Amman University
 Architecture Engineering
 19328 Amman
 Jordan, Hashemite Kingdom of

To Whom It May Concern

This is to confirm that Dr. Saba Fawzi Almusairat is welcome to participate in PLEA 2020 - Planning Post Carbon Cities, to be held in A Coruña, Spain from 1st-3rd September 2020.

Dr. Saba Fawzi Almusairat is author/co-author of the following accepted contribution(s):

1st: 120 Towards an Integrated Sustainable University Campus: The case of Al-Ahliyya Amman University- Jordan
 Author(s): Almusairat, Saba Fawzi; Al-Shamari, Zahra; Kakani, Anan
 Presenting Author: Almusairat, Saba Fawzi
 Submission Type / Conference Track: Technical Paper Submission

Please note that registration fees, travel, living and accommodation expenses will not be supported by the conference organisers.

We look forward to seeing Dr. Saba Fawzi Almusairat in PLEA 2020 conference.

With kind regards,

Dr. Jorge Rodriguez Alvarez
 ICAI 2019 Conference Chair
 ICAI Architecture, Urbanism and Construction Dept.
 School of Architecture, University of A Coruña
 Souto de Cabalo Campus 15008 de Galicia Spain
 www.iplea2020.org www.icaui.org

kauniversity.edu.jo

**KAUNIVERSITY OF TECHNOLOGY
 INSTITUTE OF ENVIRONMENTAL ENGINEERING**

Public Institution, K. Dončića St. 73, 48029 Kaunas, Lithuania
 Data are collected and stored in the Register of Legal Entities, Code 111955581.
 Date of Institute: Godman St. 50, 44239 Kaunas, Lithuania
 tel. +370 37 30 00 25 fax. +370 37 30 91 72, http://kta.ekd.gamti.lt, e.p. spini@kta.lt

To whom it may concern 2020-11-20 Nr. DV19-MI-50-41

Confirmation letter

This is to confirm that the manuscript "Towards Zero Solid Waste in Jordanian Universities: The Case of Al-Ahliyya Amman University" by Zahra Al-Shatnawi, Saba Almusairat, Anan Kakani is accepted to the scientific journal *Environmental Research, Engineering and Management* and will be published in the upcoming issue (Vol. 76 No. 4 (2020)).

EREM is included in SCOPUS database since 2016, Print ISSN: 1392-1649; Online ISSN: 2029-2139.

Editor-in-Chief
 Environmental Research, Engineering and Management

Austra Raudė, e-mail: aura.norkkeviciute@kta.lt

prof. dr. Jolita Kruopienė

الجهة المستهدفة	اسم الورشة
أعضاء الهيئة التدريسية في الجامعة	ورشة عمل تعريفية للمترجم الاستثنائية في جامعة عمان الأهلية
طلبة الجامعة	ورشة عمل بعنوان: Introduction to AAU Sustainable Programme
موظفو الجامعة والهيئة	ورشة عمل بعنوان: What does sustainability mean to you?
	ورشة عمل بعنوان: How to be sustainable?

Re: 2020 Jordanian JFDP Awards- Primary Candidate

Dear Dr. Almusairat,

Greetings from the Fulbright Office!

I am pleased to inform you that, based on the results of your interview with the Selection Review Committee (SRC) of the Binational Fulbright Commission and receiving Washington, DC's final approval, you have been nominated as one of our **Primary Candidates** for an award on the 2020 - Fulbright Junior Faculty Development Program (JFDP).

However, due to the current situation of the COVID-19, the JFDP program will not take place this summer. It has been deferred to summer 2021. Details will be shared in the coming months.

As our Primary Candidate, you need to notify your Dean or Supervisor(s) and, the President of your home university that you have been nominated for a Fulbright JFDP award. Please send an email to Ms. Rana Al-Anani (raa.a@fulbright.org) with a copy to Mr. Naser Al-Malkawi (naser.m@fulbright.org) and Ms. Aya Al-Abdallat (aya.a@fulbright.org) to acknowledge receipt of this message.

We would appreciate, also, if you would notify us as soon as possible if you still wish to be considered as a Primary candidate on the JFDP for next year or, if you are declining your candidacy no later than June 15, 2020.

With kind regards,

Iman Abdul-Wahid
 Deputy Director

Towards a meaningful university places: Satisfaction with and perceptions of the quality of open spaces for students

Saba Almusairat
 Faculty of Architecture and Design, Al-Ahliyya Amman University, Jordan
 s.abmusairat@ammanu.edu.jo

Zahra Al-Shatnawi
 Faculty of Architecture and Design, Al-Ahliyya Amman University, Jordan
 zahraa_shatnawi@hotmail.com

Yara Aywad
 Faculty of Architecture and Design, Al-Ahliyya Amman University, Jordan
 y.aywad@ammanu.edu.jo

Reactivating Open Spaces in University Campus to Enhance Health through Enabling Comfort Conditions: Architecture Post Pandemic

Saba Almusairat
 Faculty of Architecture and Design, Al-Ahliyya Amman University, Jordan
 s.abmusairat@ammanu.edu.jo

Yara Aywad
 Faculty of Architecture and Design, Al-Ahliyya Amman University, Jordan
 y.aywad@ammanu.edu.jo

Zahra Al-Shatnawi
 Faculty of Architecture and Design, Al-Ahliyya Amman University, Jordan
 zahraa_shatnawi@hotmail.com

Abstract
 Purpose: This study seeks to maximize the benefits of outdoor spaces towards the use of outdoor open spaces in universities through specifying the most useful outdoor conditions and Equitable factors of outdoor space including thermal, visual, acoustic, air quality conditions, physical design features, health and behavior.

Methodology/Approach: A questionnaire was adopted in this study. Feedback was conducted on three open outdoor spaces located in the campus of the case study university. Climate measurements on the peak hours of outdoor spaces completed in summer and winter seasons were conducted to define the appropriate conditions. Space analysis was done using various methods to define parameters of temperature, space, and connectivity. Statistical analysis was conducted and a questionnaire was used to investigate the perception of outdoor spaces.

Findings: The findings showed that there is a high interest in the environmental conditions and the use of outdoor spaces in university campus. However, there are limitations to outdoor spaces through the restrictive conditions on use. Therefore, the study established a new list of data to facilitate active outdoor spaces between social related factors (space, experience and perception), not the related factors, such as providing general outdoor spaces using proper materials and design.

Research limitations/implications: The study was representative of students from the case university as a case study, although it includes a wide range of outdoor spaces. Therefore, the study was limited to the perception of outdoor spaces, and it did not include the presence of other users.

Originality/value: Outdoor open spaces in universities are essential factors that facilitate in increasing societal places where students can relax, interact, and learn. In addition, these places play a vital role in the students' experience and psychological development. Such environments can encourage shared learning and foster connections between students in order to build a solid link with the campus and challenge the student life which is important to achieve the academic and life growth. Therefore, there is a greater need to understand the relationship between open spaces and students, particularly, in related factors that make outdoor spaces attractive to university students.

Keywords: University campus, Outdoor open spaces, User's feedback on using people's perceptions and facilities, Behavior through perception, Spatial design.

Paper type: Research paper

Towards a Sustainable University Campus: The case of AAU in Jordan

Project Highlights

New international rank 2019: UI GreenMetric

1 Annual report 2019

Sustainable website

4 Publications

2 Workshops

1 Fulbright award (JFDP)

2 Awareness campaign



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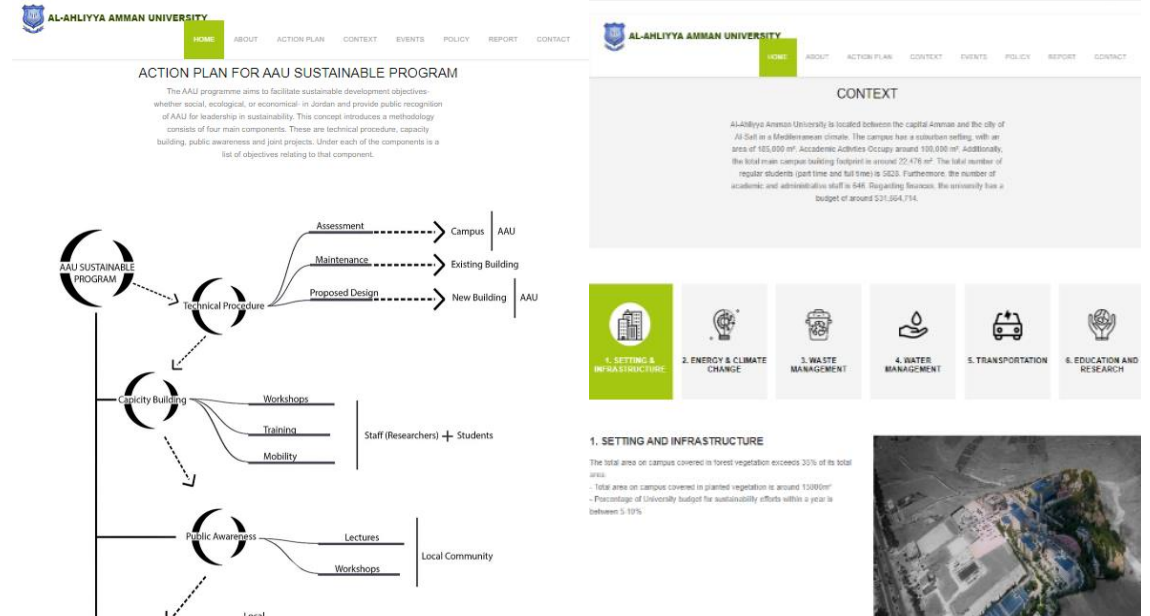
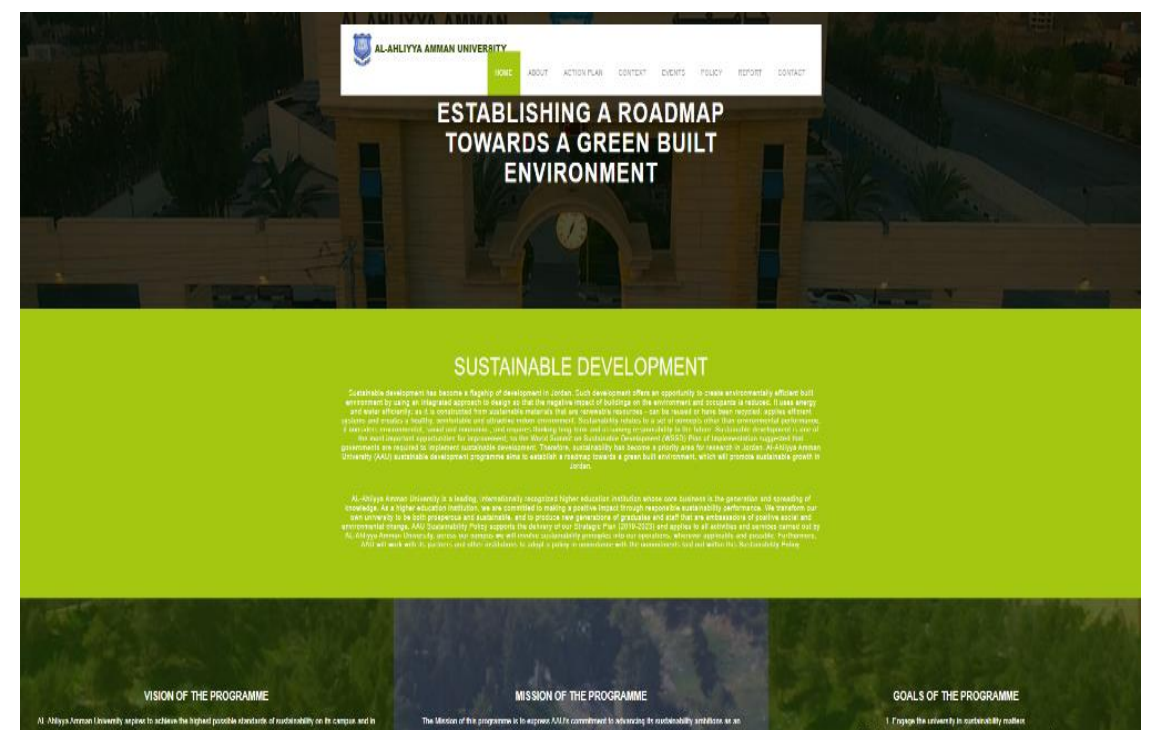
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University: Al-Ahliyya Amman University
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Dr. Saba Fawzi Alnusairat
Al-Ahliyya Amman University
Architecture Engineering
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19328 Amman
Jordan, Hashemite Kingdom of

A Coruña, 29/Jul/2020

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Presenting Author: Alnusairat, Saba Fawzi
Submission Type / Conference Track: Technical Paper Submission

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We look forward to seeing Dr. Saba Fawzi Alnusairat in PLEA 2020 conference.

With kind regards



Dr. Jorge Rodríguez Álvarez
PLEA 2020 Conference Chair
Prof. Architecture, Urbanism and Composition Dep.
School of Architecture - University of A Coruña
Zasadora Campus 15005 A Coruña Spain
www.plea2020.org www.etrac-usc.es



KAUNAS UNIVERSITY OF TECHNOLOGY
INSTITUTE OF ENVIRONMENTAL ENGINEERING

Public Institution, K. Donelaičio St. 73, 44029 Kaunas, Lithuania
Data are collected and stored in the Register of Legal Entities, Code 111950581.
Data of Institute: Gedimino St. 50, 44239 Kaunas, Lithuania.
tel. +370 37 30 03 23 fax: +370 37 20 93 72, http://ktu.edu/apini/, el. p. apini@ktu.lt

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Editor-in-Chief
Environmental Research, Engineering and Management

prof. dr. Jolita Kruopienė



Re: 2020 Jordanian JFDP Awards- Primary Candidate

<s.alnusairat@ammanu.edu.jo>

Cc: Alain.mcn@fulbright.org.jo <Alain.mcn@fulbright.org.jo>; Iman.aw@fulbright.org.jo

<Iman.aw@fulbright.org.jo>; naser.m@fulbright.org.jo <naser.m@fulbright.org.jo>;

aya.a@fulbright.org.jo <aya.a@fulbright.org.jo>

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Towards a meaningful university places: Satisfaction with and perceptions of the quality of open spaces for students

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Faculty of Architecture and Design, Al-Ahliyya Amman University, Jordan
s.ahnusairat@ammanu.edu.jo

Zahra Al-Shatnawi
Faculty of Architecture and Design, Al-Ahliyya Amman University, Jordan
zahraa_shatnawi@hotmail.com

Yara Ayyad
Faculty of Architecture and Design, Al-Ahliyya Amman University, Jordan
y.ayyad@ammanu.edu.jo

Abstract
Purpose – This study seeks to examine the attitudes of students towards the use of outdoor open spaces in universities through questioning the most comfortable conditions and **favorable** factors of outdoor specs: including thermal, visual, acoustic, air quality conditions, physical design features, beside user behavior.
Design/methodology/approach – A quasi-experiment was adopted in this study. Fieldwork was conducted on three open outdoor spaces located in the campus of the case study university. On-site measurements on the peak hours of outdoor spaces occupancy in summer and rainy seasons were conducted to define the microclimate conditions. Spatial analysis using space syntax was recruited to define parameters of integration, agent, and connectivity. Students activities were observed, and a questionnaire survey was undertaken to capture students' behavioral preferences.
Findings – The findings showed that there is a link between the microclimate conditions and the use of outdoor spaces in university campus. However, students show tendency to use outdoor spaces although the microclimate conditions are not favorable. The study established a base line of data to facilitate actions towards integration between social-related factors (users' experiences and perspectives), and site-related factors, with providing a special emphasis on young people (university students age).
Research limitations/implications – The sample was representative of students from one university as a case study, although it includes students from various faculties. However, the study was limited to an exploration of students' opinions, and it did not include the points of view of other users.
Originality/value – Outdoor open spaces in universities are essential features that function as community oriented places where students can meet, interact, and relax. In addition, these places play a vital role in the students' experience and psychological development. Such environments can encourage shared living and thriving communities where a friend is close to hand to talk over the stresses and challenges of student life which is important to achieve the academic and life growth. Therefore, there is a greater need to understand the relationship between open spaces and emotions, particularly as related to factors that make outdoor spaces attractive to university students.

Reactivating Open Spaces in University Campus to Enhance Health through Enabling Comfort Conditions: Architecture Post Pandemic

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Faculty of Architecture and Design, Al-Ahliyya Amman University, Jordan
s.ahnusairat@ammanu.edu.jo

Yara Ayyad
Faculty of Architecture and Design, Al-Ahliyya Amman University, Jordan
y.ayyad@ammanu.edu.jo

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Keywords University campus, Outdoor open spaces, Users' (students/young people) perception and satisfaction, Behaviour pattern, Spatial layout
Paper type Research paper

FORMAL INTRODUCTION TO AAU SUSTAINABLE PROGRAMME

Architecture Department In Partnership With The Teaching And Learning Center 📅 30 November 2019

WHAT DOES SUSTAINABILITY MEAN TO YOU?

Department Of Architecture 📅 15 December 2019

HOW TO BE SUSTAINABLE?

Department Of Architecture 📅 16 March 2020

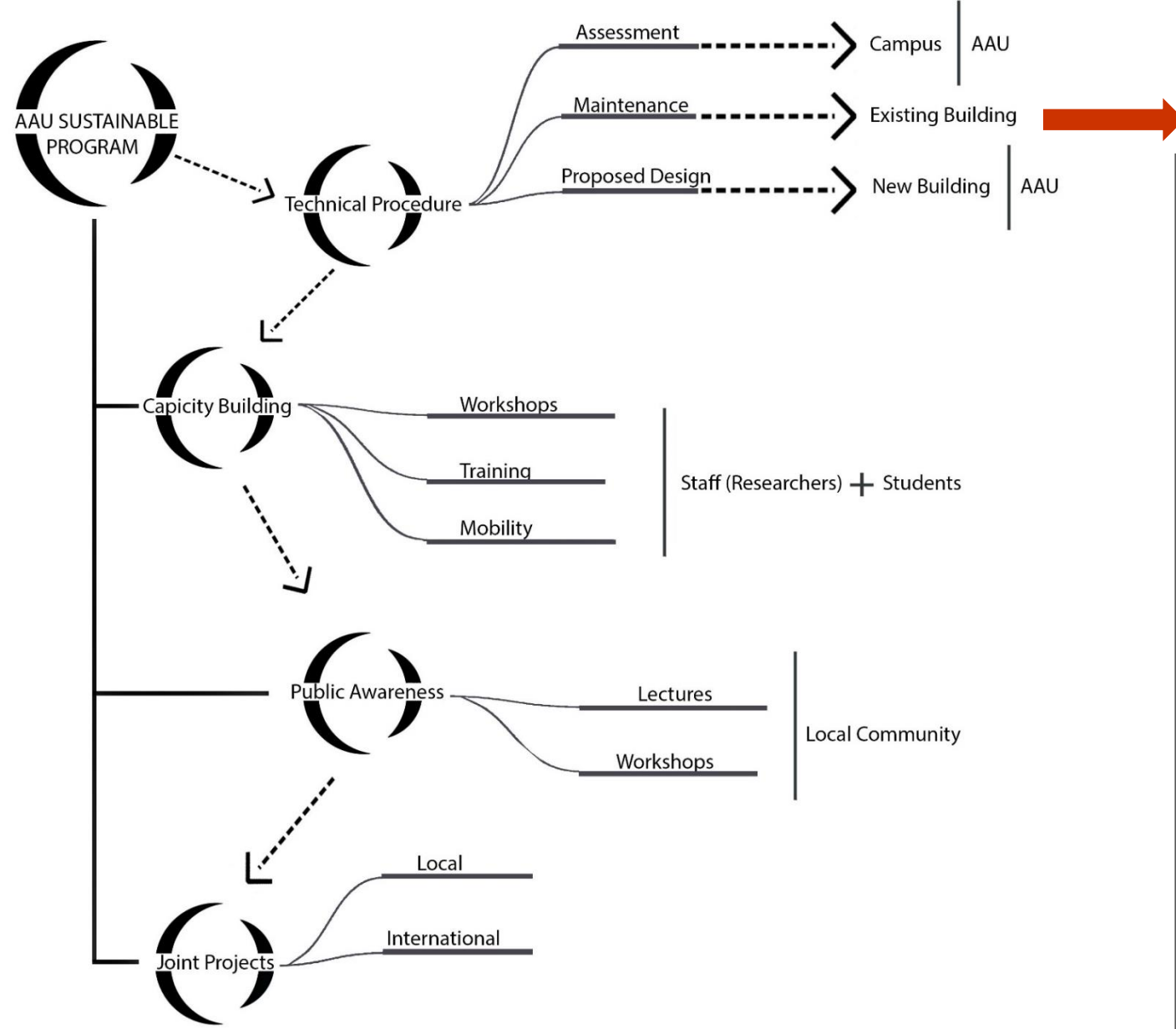


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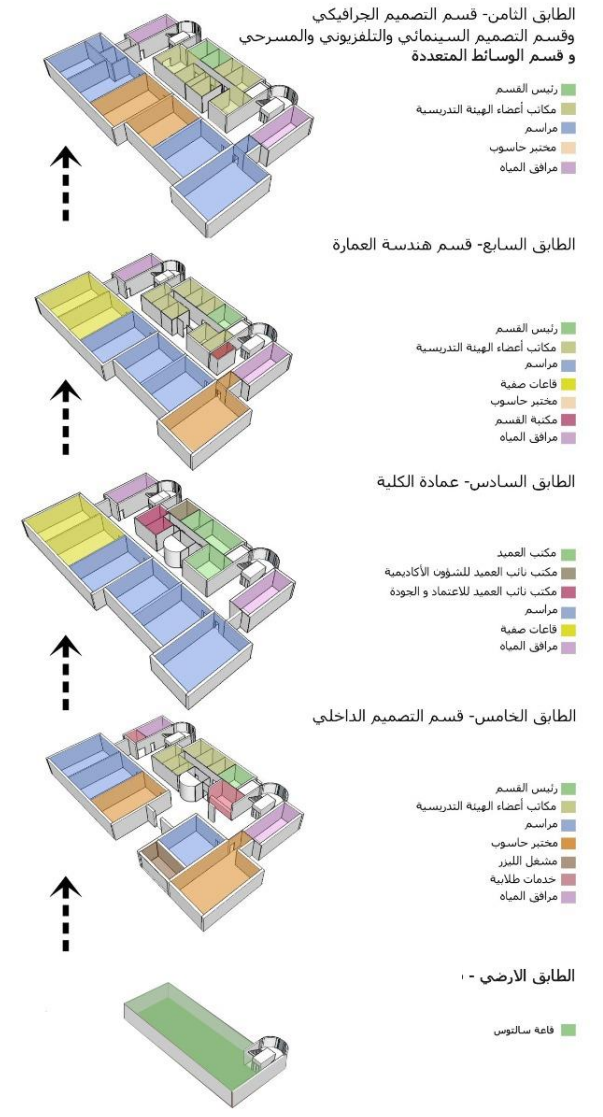
الجهة المستهدفة	اسم الورشة
أعضاء الهيئة التدريسية في الجامعة	ورشة عمل تعريفية لمشروع الاستدامة في جامعة عمان الاهلية بعنوان: Introduction to AAU Sustainable Programme
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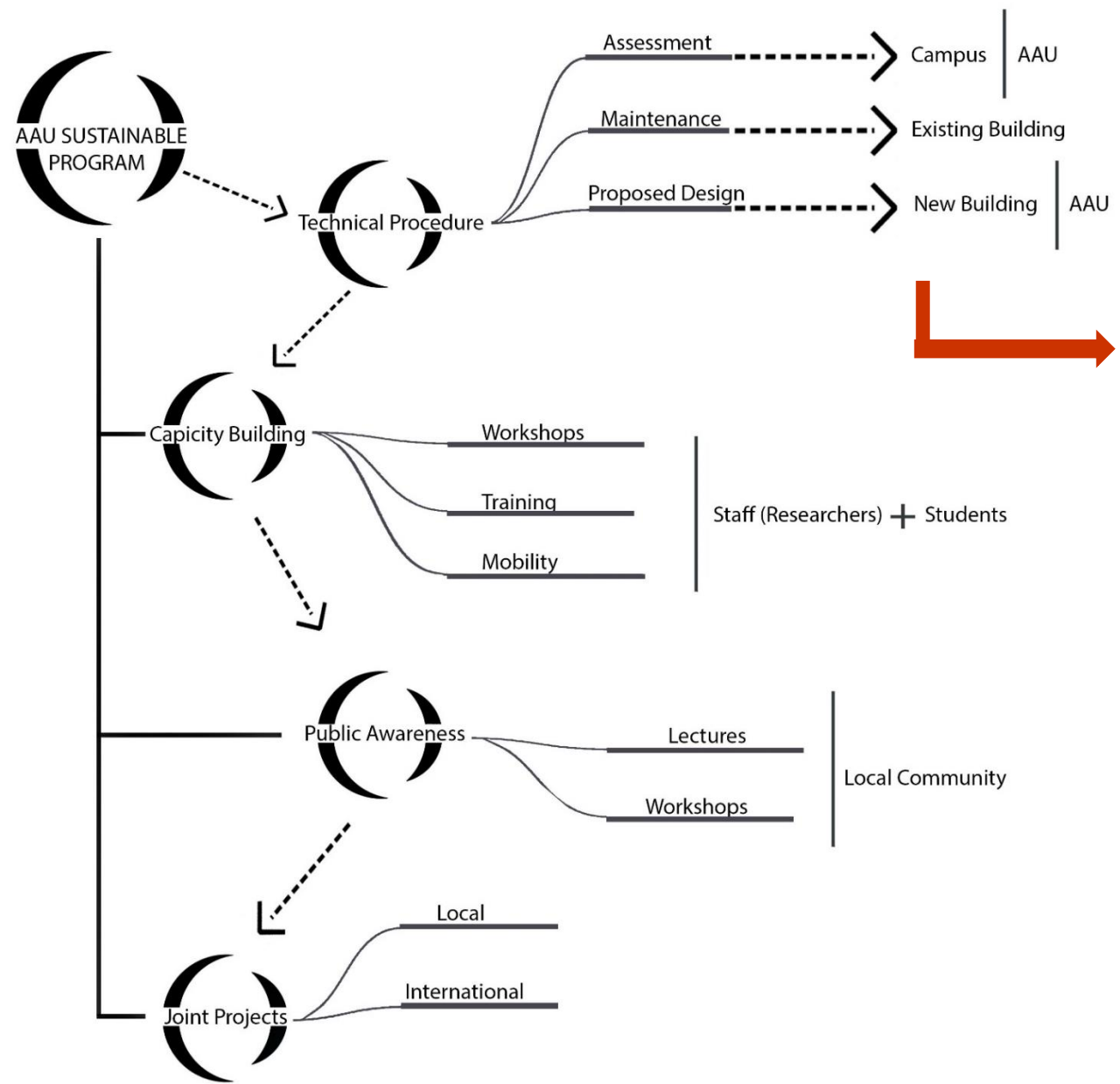


Towards A Retrofit Existing Green Building in AAU

Aim: to achieve a adopt green building principles for an existing building /space in Architecture and Design Faculty Building- the ground floor

Suggested accreditation is Jordan Green Building Guide, local guidelines for green buildings are considered





Towards A Certified Green Building in AAU

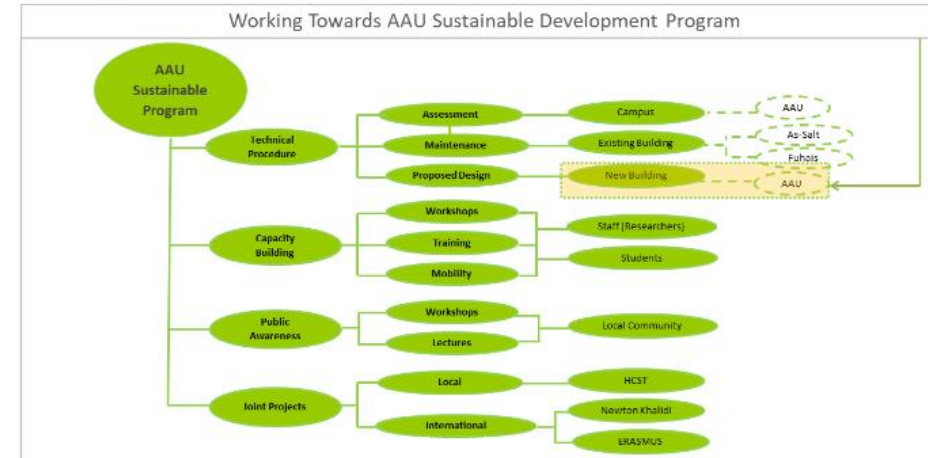
Aim: to achieve a recognised international green certification for new constructed building. Suggested accreditation is Leadership in Energy Environmental Design (LEED). In addition, local guidelines for green buildings are considered

Towards A Certified Green Building in AAU



Goal

To achieve a **recognised international green certification** for new constructed building. Suggested accreditation is Leadership in Energy and Environmental Design (LEED). In addition, local guidelines for green buildings are considered.



Objectives

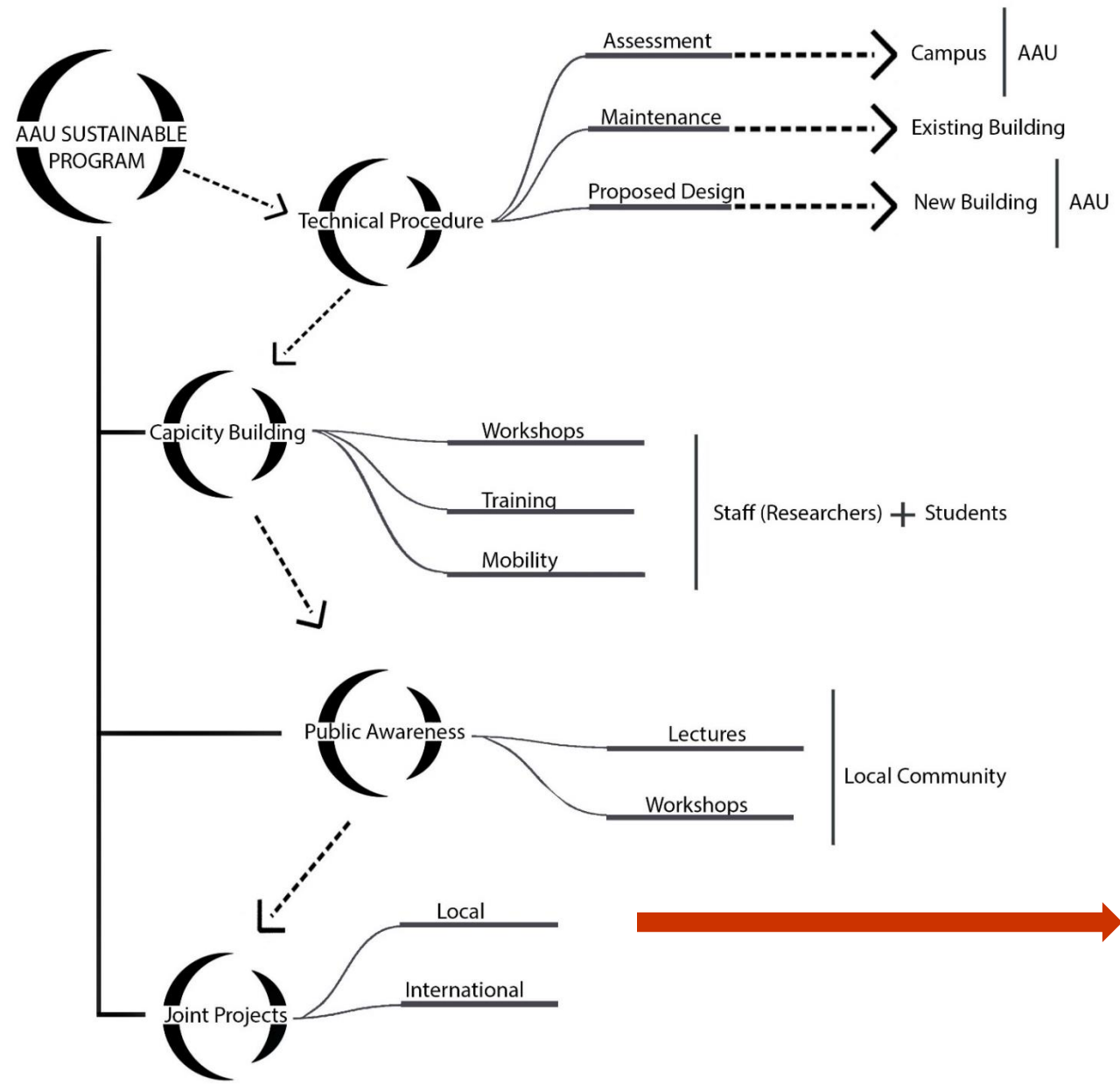
- To study the most known international green building rating systems such as LEED, and the local green guidelines for Jordan CASBEE. Then provide a comprehensive analysis of them considering their categories, issues, criteria, and significances.
- To identify the local context and priorities. Therefore, this research provides an analytical study of the key aspects of Jordan's context, significantly AAU environment that are relevant to the sustainable assessment framework – infrastructure, building policy, social priorities and economic priorities
- To develop green strategies that can be integrated in the proposed design of the new building . Thus strategies can ensure a high score of green accreditation.
- To apply for LEED (new construction) accreditation.

References

- Ali H. H. and Al Nusairat S.F. (2009). Developing a Green Building Assessment Tool for Developing Countries – Case of Jordan". Building and Environment. 44 (5), 1053-1064.
- Gilberd J. (2005). Assessing Sustainable Buildings in Developing Countries – The Sustainable Building Assessment Tool (SBAT) and the Sustainable Building Lifecycle (SBL). Proceedings of the 2005 World Sustainable Building Conference (SB05Tokyo); Sep 27-29, Tokyo. 1605-1612
- USGBC. (2019). LEED v4.1 BUILDING DESIGN AND CONSTRUCTION

Green Certification Credit Categories (LEED V4)





Assessment of Thermal Comfort and Air Quality in Educational Buildings in Jordan and its Impact on Health and Performance

Aim: aims to develop the education in Jordan by improving the internal climatic conditions of the educational environment and demonstrate the impact of carbon dioxide on the health and performance of the users

The Need of Healthy Buildings – Post COVID19.

The poster is for the IAQA Jordan Chapter, Indoor Environment Quality & Occupational Health Conference. It features the IAQA logo and the Jordan Chapter logo. The text reads: 'Indoor Air Quality Association - Jordan in cooperation with Jordan Engineering Association (JEA) are organizing the second Round of Indoor Environment Quality & Occupational Health Conference "Design to Occupancy" 14-16/11/2020 Virtual Conference Seminar Title: Arabic Language'. The main title is 'The Need of Healthy Buildings Post COVID19' and the subtitle is 'Panle Discussion Day 2 - (12:00 pm -2:00 pm) Amman Time.'. A photo of Dr. Saba Alnusairat, PhD, is included. Her bio lists her PhD in Environmental Sustainability, Energy Efficiency and Thermal Comfort from the Welsh School of Architecture, University, UK, her Master's degree in Architecture Engineering from Jordan University of Science and Technology, and her role as an assistant professor of architecture at Al-Ahliyya Amman University, Jordan. It also mentions her work in academia, research on low carbon system technologies, and her involvement in research grants and publications.