THE HASHEMITE UNIVERSITY
The Presidency
الجامعة الهاشمية
رئاسة الجامعة

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National Architectural Accrediting Board
1735 New York Avenue, NW
Washington, DC 20006
USA

Reference: Program Self-Evaluation Report (PSER) for Visit Three
The Hashemite University,
Faculty of Engineering, Architectural Engineering Department
Bachelor of Architectural Engineering Degree Program

To whom it may concern:

At their February 2021 meeting, the directors of the National Architectural Accrediting Board (NAAB) voted to accept the Visiting Team Report for Hashemite University's Bachelor of Science in Architectural Engineering degree. HU's professional architecture degree program can proceed to visit three in the NAAB's International Certification process.

We have attached the required Program Self-Evaluation Report (PSER) for Visit Three as defined in the 2019 Conditions and Procedures for NAAB International Certification for your review and for determination by the NAAB review panel. We understand that the review panel will decide whether to accept the report provisionally or whether request additional information.

We are also furnishing this report materials by e-mail to info@naab.org, including " Program Self-Evaluation Report (PSER) for Visit Three" in the subject line.

Thank you in advance for your consideration of our PSER report. We look forward to hearing from you and the outcome of your initial review and to discussing the last steps in this important process, including Visit three arrangements. Please advise us if we can be of assistance in providing and clarification of additional materials for your consideration.

Sincerely,

Prof. Fawwaz Al-Abed Al-Haq

President,
The Hashemite University,
Jordan

CC: Prof. Awni Itradat – Dean, Faculty of Engineering
Dr. Ahmad A. Alhusban – Chairman, Department of Architectural Engineering

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Program Self-Evaluation Report (PSER)

The Hashemite University
Faculty of Engineering
Department of Architectural Engineering
Zarqa, Jordan

Application for NAAB International Certification
For the degree of:
Bachelor of Architectural Engineering (172 Credit Hours)

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Part One, Section 1. Identity and Self-Assessment

I.1.1 History and Mission

A. History and Mission of the Institution

The Hashemite University (HU) is one of the Jordanian state-run universities. It is named after the Jordanian Royal family -the Hashemites- and was established under Royal Decree dated 19 June 1991. Teaching at the University started on 16 September 1995 with three faculties and 600 students in its first year.

The HU is located in Zarqa's city's vicinity on a site parallel to two international highways. The west gate of the University, which is the main gate, opens to the international highway that links Amman with Mafraq and Irbid and from there to Syria. The south gate opens to the highway leading to AzZarqa and to Iraq and Saudi Arabia. The university's campus's total area is 8519 acres, 15% of which was used for buildings, 25% for planting and agriculture, and 200 Acers have been planted with various vegetation.

The HU is considered among the best universities in Jordan and the region. Over the last 25 years, HU has expanded its academic and research profile to reach nineteenth faculties with more than 230 laboratories in different colleges, all equipped with the latest technological equipment. Each college has its own number of credit hours. Currently, the University consists of 53 departments, 696 faculty members, more than 21000 students, and 30+ master and Ph.D. programs. It also offers an international admission program that allows non-Jordanian students to enroll at the University.

The HU applies the credit hour system. This system provides students with the needed amount of flexibility and freedom to choose the courses that satisfy their preferences and academic, cultural, and social aspirations. It also intensifies students' opportunities from different faculties and institutes to effectively interact and communicate with each other.

The HU adopted a comprehensive environmental management strategy directed towards a green campus and mitigating climate change. The strategy is a multi-faceted spectrum of practices enabled and implemented throughout the campus. This strategy can be summarized as the following spectrum of practices: Renewable energy, energy efficiency, greenery and forestry, water management, pollution mitigation, and capacity building. These practices were realized into the campus's fabric, in all infrastructure projects and real estate expansion, along with all social and academic procedures.

The HU has implemented a 5 MWp photovoltaic (PV) renewable energy project that achieved 100% energy independence for the University. The HU environmental sustainability policy focused on achieving sufficiency and sustainability through energy reduction practices, along with energy-efficient approaches, building techniques, and electromechanical devices. These measures were employed in all of the new building expansions on campus (with more than 70,000m2) of newly added building areas.

A major focus of the university strategy in environmental sustainability was the increase in its green square footage, within the campus ground, between the buildings, and throughout the campus grounds, which expand over more than 8.5 square kilometers. The University, located in a semi-arid region with desert-like conditions, aims to provide its users with green areas planted with shrubs and trees native to the local environment, including pine trees, sumac trees, and date and olive trees.

The university water needs are about 650 m3 daily. The primary source of this water is the municipality main. The University has three aquifer wells, as well. These wells have reached a high level of salinity, rendering them useless for the water and irrigation needs due to previous over-pumping and lack of environmental supervisory policies at the time. The University is constructing a water desalination plant that will cover all the university potable and irrigation water needs, eliminating its dependence on the

municipality main (subsequently lessening the demand for water for the Zarqa municipality, a historically drought-prone location).

With its expanded renewable energy projects, producing more than 10 GWh annually, the University decreases CO2 emissions by more than 5,000 tons annually. This is concurrent with a decrease in Jordan's oil requirements by more than 25,000 barrels of oil annually. This is translated to more than US$ 4 million of savings to the annual university budget. The University has started a program to encourage its users to adopt electric and hybrid-electrical cars, with plans to install electricity-charging stations throughout the parking areas. Moreover, HU has moved towards electronic teaching and testing, reducing the amount of paper used for its courses. Paper waste is continuously collected and used at nearby paper recycling plants, and aluminum cans collection bins are distributed throughout the campus. These are sold and used for aluminum recycling plants.

The new Faculty of Pharmaceutical Sciences building is the largest and most unique in the Middle East and has a total area of (21,860) square meters. It is designed according to the world's best architectural specifications. The building consists of four floors that include classrooms in interactive modern multi-use capacity, sophisticated labs, pharmaceutical libraries, interactive theatre, and other educational services.

The HU received the order of Independence of first-class for its achievements in renewable energy and higher education. HU is considered the Sustainability leader in Jordan with its Mega Photovoltaic renewable energy project, green building, and vast green areas on campus. The University believes that the model it has set forth has high replicability due to its economic feasibility and mitigation of environmental effects and effects.

The institution vision, mission, and values of the Hashemite University are as follows:

A.1 Vision

HU is oriented toward achieving an academic pioneering position and excellence in university teaching, scientific research at both the national and regional levels, serving society through its educational functions and participating in the advancement of knowledge.

A.2 Mission

The Hashemite University, as a youthful and prominent higher education institution, is committed to actively participate in achieving the goals of comprehensive national development through preparing loyal men and women who are not only technically competent in their professional fields but also life-long learners who have a breadth vision, loyalty to their nation, and a sense of civic and moral responsibility and devotion to the fundamental values of human life

A.3 Values

The values of the Hashemite University guide our internal culture and provide connections to the stakeholders and communities we serve.

We Value:

- Human rights of equity, justice, dignity, diversity, and respect for ourselves, the communities, and the individuals that we serve.
- A culture of appreciation, service, transparency, social responsibility, and integrity, both institutional and individual.
- An environment of professional excellence and quality, innovation, creativity, research, and intellectual curiosity with ethical bounds.

- Institutional and personal roles simultaneously include leadership, participation, and partnership.
- A spirit of mutual enabling and improvement in all professional activities; and
- An entrepreneurial atmosphere that prizes ethical standards, as well as solution and application.

A.4 Immediate Priorities

The Hashemite University has also set a series of immediate priorities to shape the institution's near-term future. These include efforts to:

- Enable, prepare and equip all Faculties for quality assessment and academic accreditation;
- Enhance all aspects of students' learning experience with close attention to the use of new technologies, learning resources, and enhancing levels of student/staff contact;
- Sign fruitful agreements with national, regional, and international organizations and universities;
- Fulfill our vision by working to initiate, approve and implement new programs oriented toward economic development and diversification;
- Improve marketing of our assets in service, research, healthcare, and consultation;
- Become more aware of the community and environmental issues and develop joint research programs to seek practical solutions;
- Create and sustain a broad range of continuing professional development programs;
- Enhance the physical environment and facilities of the University, particularly teaching and learning and research facilities in addition to students' services to support our students, faculty, and staff;
- Set up mechanisms to communicate effectively with industrial and business communities, alumni, parents, and other friends to build a base of advocacy for the Hashemite University;
- support research-rich teaching and learning culture and practice and improve research productivity and quality;
- increase and diversify the University's income base, especially from non- Government sources;

and

- Implement best practices in managing people, resources, and systems, ensuring equality of opportunity for all staff.

A.5 Future Outlooks

- First: Within the area of the national strategy for higher education: To realize the royal vision related to higher education, the University is heading forward in implementing its strategy and plans for the coming five years to guarantee the quality of the learning outcomes that ensure its competitive potentials.
- Second: Building on campus a dormitory for girls, Implementing the housing project for the university employees, and Implementing the investment agreement with the Free Zones Corporation on the university land.

B. History and Mission of the Engineering College

In response to the needs and requirements of the marketplace in Jordan and the region, the faculty of engineering was established in August 1998, with an enrollment of 300 students and a total teaching staff of 20, and the first batch of engineers was graduated in June 2003. The Faculty of Engineering at the Hashemite University is recognized for its academic excellence in undergraduate programs in its eight academic departments: Civil, Mechanical, Industrial, Electrical, Mechatronics, Biomedical, Computer, and Architectural Engineering.

The faculty has 136 faculty members: 107 Ph.D. holders and 29 teaching assistance, 62 administrative staff positions, and 46 laboratory supervisors and technicians, and students' enrollment increased to 4800, in addition to the engineering workshop staff composed of 16 engineers and technicians.

Integral to this need is building an infrastructure and facilities that can support professional engineering education and research in important areas of specified applied sciences and technologies in eight different majors to qualify the engineers based on high quality and professional standards. Through teaching, the faculty provides students with an effective and high-quality education at the undergraduate level in eight different departments and encourages an environment that stimulates the learning purposes for a successful career and promotes the diversity needed for the local market.

The college research strategy includes encouragement of inter- and multi-disciplinary research addressing the needs of industry, government, and society. Its education strategy consists of the continuous improvement of engineering curricula both in content and method and applying the world quality standards ABET in the faculty's seven departments. Faculty of Engineering at the Hashemite University successfully achieved entire Board for Engineering and Technology (ABET) accreditation for seventh bachelor engineering programs: Computer Engineering, Electrical Engineering, Industrial Engineering, Mechanical Engineering, and Mechatronics Engineering, Civil Engineering and Bio-Medical Engineering. The Faculty of Engineering at the Hashemite University is working progressively toward obtaining and maintaining the ABET accreditation to continuously improve the faculty in achieving its own vision and mission. This can help satisfy the educational objectives and outcomes, which will improve the quality of the faculty graduates.

The Faculty of Engineering Vision Statement is:

The vision of the College of Engineering at the Hashemite University is to become the leading engineering college in the region for providing high-quality engineering education, applied scientific research, technology transfer, and community services.

The Faculty of Engineering Mission Statement is:

1) To prepare highly qualified graduates for careers in the engineering profession, providing them with a broad, stimulating, and rigorous engineering education, professional skills, and knowledge will enable them to succeed in their future careers.
2) To prepare graduates to work environments, handling the different local, regional, and global marketplace challenges.
3) To conduct research that leads to recognized scientific contributions in the applied field globally and locally, supporting comprehensive sustainable national development plans.

C. History and Mission of the Architectural Department

The Architectural Department was established in 2005. It started with students' reception in the second semester of 2006, with an enrollment of 27 students and a total teaching staff of 3. Currently, the Department has 18 faculty members, 5 Scholarship awardees to get Ph.D., 3 Lab supervisors, 2 Technicians, a Library supervisor, and 230 students' enrollment. The program was revised in 2009 due to the Faculty of Engineering re-organization and local and NAAB International Certification plan. It was also revised in 2009 and 2011 to satisfy the Higher Education Accreditation Commission's requirements at Jordan. In 2011, the program was accredited by the Higher Education Accreditation Commission at Jordan. At the January 2020 meeting of its Board of Directors, The National Architectural Accreditation Board voted to accept the report from visit one regarding the application for International Certification for the Bachelor of Architecture degree at Hashemite University.

At their February 2021 meeting, the National Architectural Accrediting Board (NAAB) directors voted to accept the Visiting Two Team Report for Hashemite University’s Bachelor of Science in Architectural Engineering degree. As a result, HU’s professional architecture degree program can proceed to visit three in the NAAB’s International Certification process.

The Architectural Department currently offers one full-time study track leading to the degree of Bachelor of Science in Architectural Engineering. Therefore, there are no other options, tracks, or concentrations in the program.

The Architectural Program is delivered through 10 full semesters (5 academic years). The program consists of 172 credit hours and is delivered in class and design studio, during the daytime, and at the Hashemite University (HU), Zarqa, Jordan. The classes and studios are offered 5 days a week (Sunday through Thursday) through traditional face-to-face lectures, design studios, and tutorials. Recently, the University started offering some of the university-requirement courses online.

The academic year consists of two main semesters (14 weeks/semester excluding final exams) in addition to one optional 8-weeks summer semester. In addition, students conduct their practical training (Architectural Engineering Training) for eight weeks, usually at the end of the 4th academic year, but necessarily, during the summer break. There are currently no dual degrees or international partnerships associated with the architectural program.

The Department aims to provide a specialized program to prepare architects who are familiar with the various schools of architectural design, theories of architecture history, technology applications in design and construction methods, work, and how to prepare the engineering plans and project management as the focus is on their definition of the architectural reality in Jordan through the introduction of projects related to the local community and regional as well as hosting local architects to arbitrate their projects in different years of study.

The Architectural Engineering Department was established to prepare qualified scientific and professional graduates who would be specialists in architectural engineering and the built environment. This Department, upon its formation, was awarded a Bachelor of Science degree in Architectural Engineering. The program is designed for qualified professionals who are competent in the methods and techniques appropriate for architectural design, restoration, supervision, and project management. Besides taking courses on architectural design, students are trained on applications of the latest scientific approaches in different areas such as architectural rendering and communication, construction techniques, history and theory of architecture, urban design and planning, landscape architecture, physics of architecture, environmental control and cultural heritage protection and restoration. Graduates of this program will be qualified to hold positions in the architectural engineering field as architects, project managers, and supervisors in both the public and private sectors.

The Architectural Engineering Department also grants a postgraduate degree, which is a Master's of Architectural Engineering. The philosophy of education in the architectural engineering department has been based on several principles, such as commitment to architectural and design values to create the appropriate environment for creativity and innovation. It has also concentrated on developing students' design skills and communications methods, focusing on technical sciences and professional training. This is achieved by teaching various courses on design, construction, architecture, and engineering science theories and implementing the curriculum's local environmental, economic, and social characteristics.

The Vision, Mission, Core Values, Program Education Objectives, and Student Outcomes for the architectural program are entirely consistent with the Faculty of Engineering and the Hashemite University's mission statements.

C.1 Program Vision

At HU, the architectural engineering department seeks to be one of the best architectural departments in the region and gain international recognition as a leader in providing outstanding comprehensive Architectural Engineering Education, Research, and Community Services to enhance life quality by using architectural design. The department encourages creativity, collaboration, collegiality, sustainability, a

balance between theory and practice, high ethical standards, and openness in all that we do. The department strives to use design thinking and creative problem solving to address the issues faced by contemporary society.

C.2 Program Mission

The architectural engineering department at HU aims to educate students for future architectural design practices to meet environmental, social, political, and cultural challenges that face the local, regional, and international contexts for the benefit of society. This student-centered learning program is emphasized through studio-based holistic curricula. It focuses primarily on the knowledge, practices, and technical skills in the fields of architectural design, critical and integrative design thinking, communication and representation skills, construction material and technology, structural systems, computer-aided design, sustainable design, urban design and planning, history and theory, heritage conservation and landscape, and professional practice. The graduates are expected to cope with rapid global changes, react rationally and creatively to contemporary architecture issues, problems, and challenges.

C.3 Core Value

In order for the department to be able to pursue the stated vision, the community of staff, students, technicians, and administrators that constitute the architectural engineering department at HU must adhere to the following core values:

- Establish an architectural engineering program with clear and measurable objectives that will benefit members, enhance the profession of architecture, and improve the quality of the built environment in Jordan and the region.
- Maintain the highest architectural ethical, and professional standards in all our endeavors.
- Work as a team by recognizing the vital role of each academic staff member, students, non-academic staff, and those in the university's administrative structure.
- Respect for each other's achievement, including our peers and students' ideas, views, work, property, and opinions. We recognize that a healthy studio environment is a place that encourages growth and diversity.
- Respect our workspaces and each other's personal property, tools, materials, models, drawings, desk space, personal space, etc.
- Promote respectful, constructive, and productive criticism. At the same time, faculty are responsible for listening and responding to students' ideas and design processes. Students have an equal obligation to respond to such criticism through the consistent development of their work. We recognize that good design is crafted both physically and intellectually.
- Ensure that an ongoing and pervasive quest for the quality, evolution, and completion of our work. At the same time, faculty should clearly articulate their teaching methods and performance expectations through comprehensive syllabi, and students should be self-driven, committed, and accountable for the work produced. Back up files and print on time!
- Manage our time effectively; while faculty should be mindful of the amount of time required to complete assignments, students should use studio time productively, plan for and anticipate deadlines, and aim to exceed expectations.
- Focus on achieving our educational mission; while faculty should be passionate and dedicated teachers, students should be fully committed to their coursework, recognizing that they are responsible for establishing personal goals and working toward achieving them.
- Foster the studio teaching/learning environment as a form of higher education; while faculty should work hard to be the best teachers, students should work hard to be the best learners and doers they can be.
- Help, interact, and share information and knowledge by recognizing that HU's architectural department will only grow if we mutually support future generations' intellectual growth. WE are willing to help others through critiques when appropriate and possible.

- Foster, value, and support collaboration by recognizing those novel ideas are often rooted in the complexities of multiple voices, interests, concerns, and abilities.
- Provide a supportive environment for innovation in all aspects of what we do and encourage responsible action. At the same time, faculty should be open to new ideas, and students should also be willing to venture outside of their comfort zones, think critically, and pursue novelty.
- Maintain a strong culture supportive of inter/multi/trans/disciplinarily.
- Support an environment that is welcoming and encouraging to students, faculty, and staff of all backgrounds and perspectives.
- Foster engagement in the multiple communities that intersect us (local, national, international, and professional).

C.4 Program Educational Objectives

The Architecture Department at HU is deeply committed to ensuring that every graduate of the program meets the goals and learning objectives necessary to achieve the highest level of excellence in their future endeavors. Graduates of the program should solve architecture-related problems within a greater societal context by doing the following:

1) Practice Architecture profession with confidence, global competitiveness, and superior work ethics and character.
2) Apply professional knowledge, expertise, and technical skills to identify, examine, present, communicate, perform, and produce efficient, creative, and sustainable architectural design concepts and realistic solutions.
3) Demonstrate high proficiency in critical thinking, communication, and solving complex design problems.
4) Pursue life-long learning skills to meet evolving built environment and architectural challenges facing the society.
5) Work effectively in multi-disciplinary teams within the building industry by providing knowledge in built environment-related disciplines relevant to architecture's ethical responsibilities and professional obligations.
6) Be able to pursue advanced study and research at the graduate level.

The HU's architectural engineering program reflects that architecture is an intellectual and interdisciplinary discipline, both an art and professional science. Therefore, the detailed objectives of the architectural engineering program at HU are to:

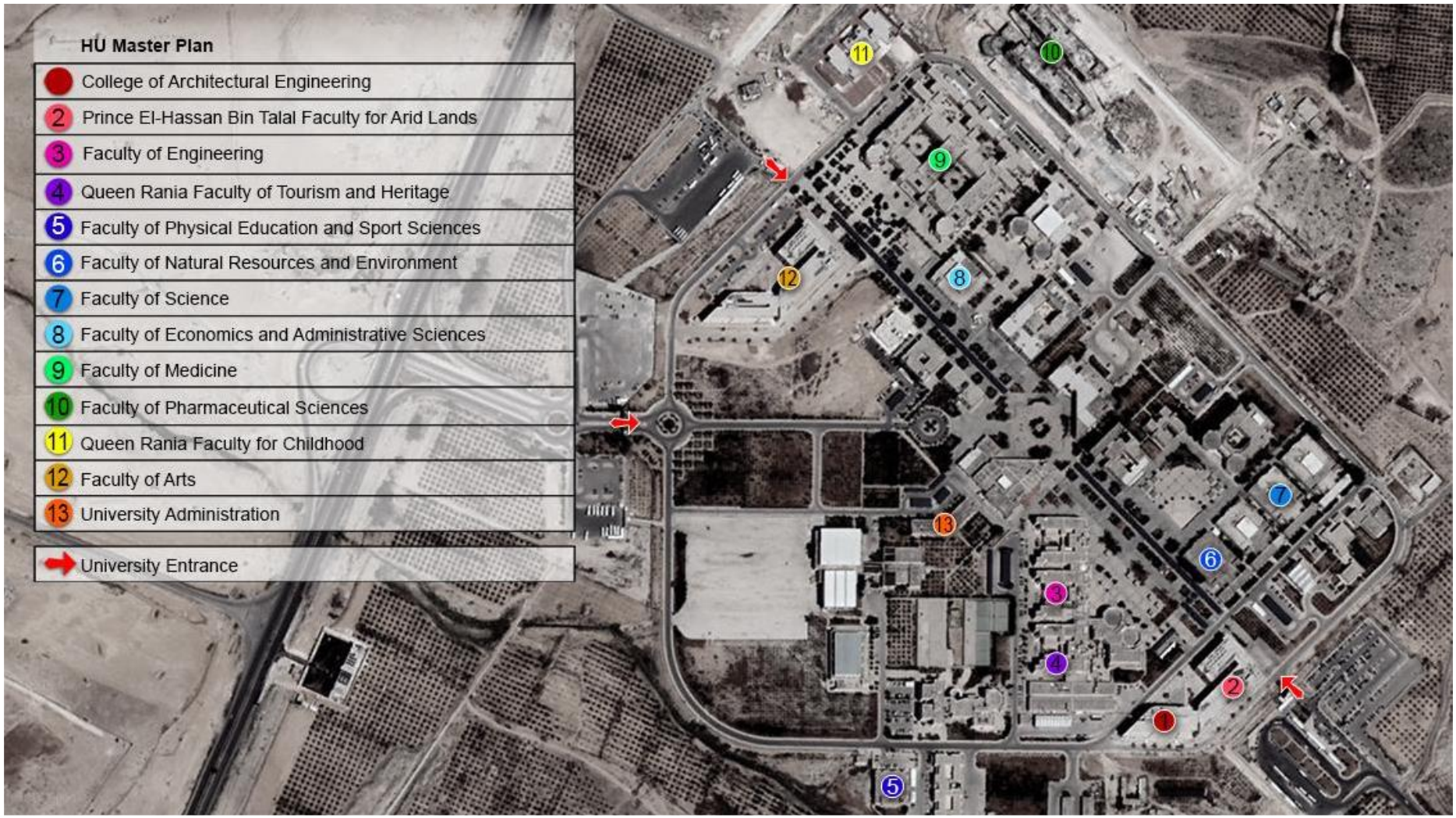
1) Develop and foster students' abilities in analytical, critical, creative, and interpretative thinking skills. Our design teaching method focuses on how the students acquire, organize, and apply design knowledge base on the instructor's knowledge, teaching style, personal experience, and ability to build a conceptual understanding of the design knowledge domain. Therefore, our architectural design program has three objectives: to teach new skills, teach new languages, and teach students how to think in architectural terms.
2) Develop and foster the students' ability to communicate effectively by using oral, written, and graphical forms and their abilities to analyze and interpret data and provide the necessary results to design buildings.
3) Provide students with knowledge, skills, and proficiency to meet the future profession's growing demands in dealing with the dynamic, fluid, and progressive architecture trend. The curriculum is crafted to enhance and foster students' and instructors' abilities to face global competition and work in different environments.
4) Provide students with adequate knowledge of design principles, communication and representation systems, architectural design, ecological, environmental, and sustainable design, construction material and technology, computer-aided design, urban design, structural systems

and behaviors, conservation and rehabilitation, history and theory, landscape architecture, housing and city planning.
5) Draw knowledge from humanities, social and physical science, technology, environmental science, the creative arts, and the liberal arts.
6) Train students and teachers in research techniques as an inherent part of architectural learning.
7) Develop the students' ability to effectively communicate with colleagues, clients, and the local community.
8) Prepare students to acquire and develop creative problem solving and lifelong learning skills, including critical thinking and assessment of existing environments and active and experiential learning to create design concepts and solutions.
9) Prepare students to work effectively in multi-disciplinary teams within the building industry by providing knowledge in built environment-related disciplines relevant to architecture's ethical responsibilities and professional obligations.
10) Prepare students for future architects' professional and technical roles wherein they need to solve architectural design problems creatively.
11) Prepare students to apply architectural engineering design' knowledge of the science of contemporary issues, which allows them to appreciate the impact of architectural solutions on humankind in general and local communities in particular.
12) Develop the program continuously to meet the recent advancement and the diverse market needs of the local, national, and international.

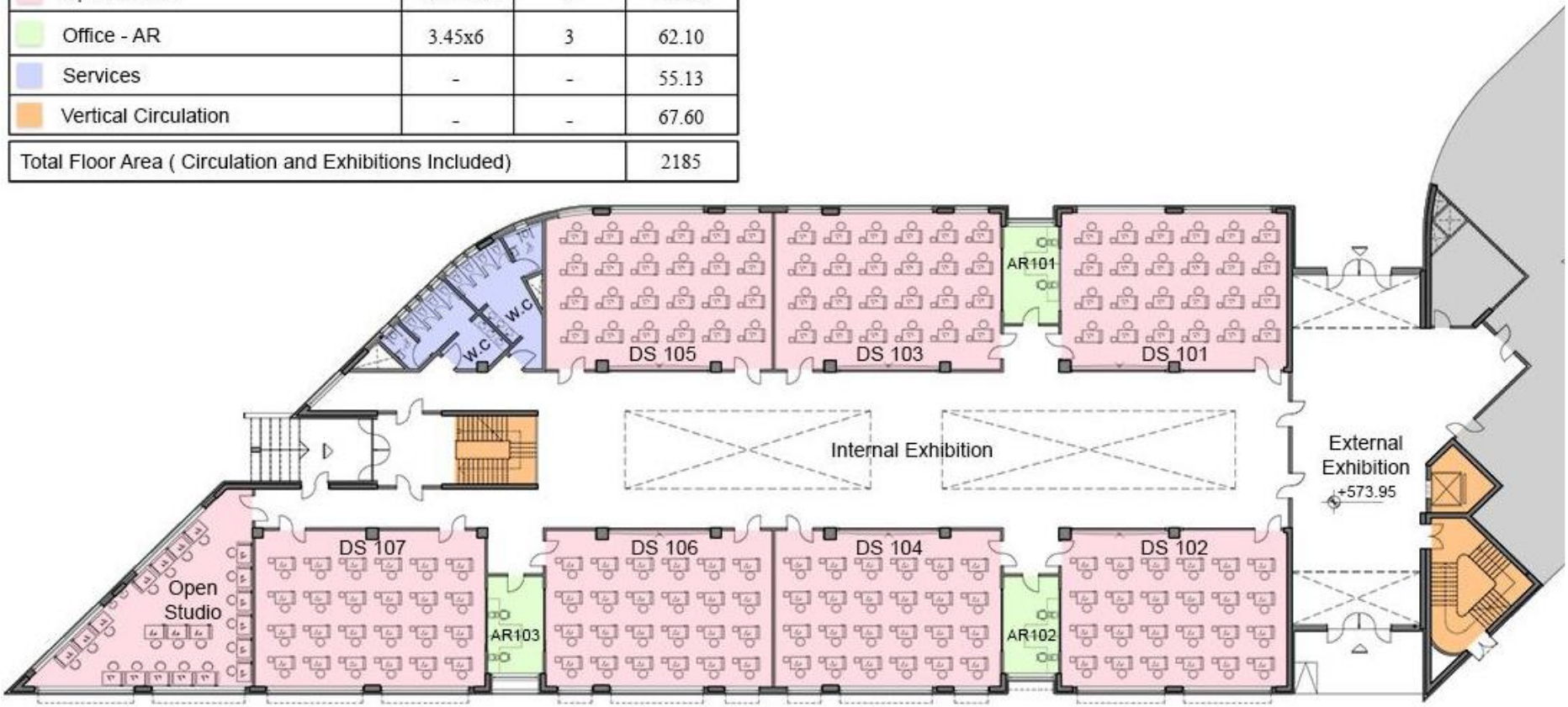
C.5 Occupations and the Potential Fields/Sectors for the Employment of Graduates

Students who have earned a bachelor degree in architectural engineering from HU may pursue these career options:

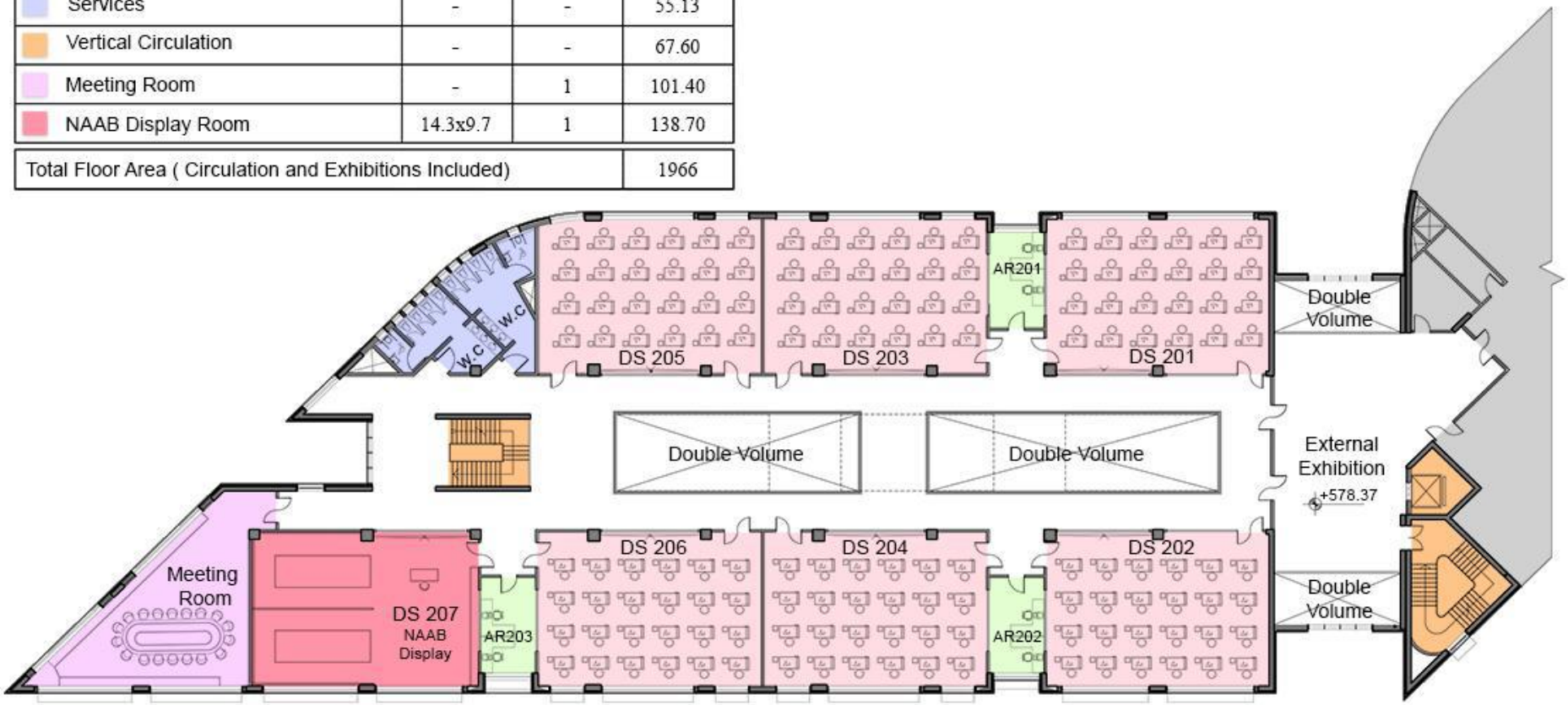
1) Architecture designer (Architect)
2) Architectural visualization
3) Architectural drafter/technician
4) Model maker
5) Architectural technologists are specialists in the science of architecture, building design, and construction.
6) Interior designer architect
7) landscape architect
8) Independent practice in architecture and urban development
9) In Construction Field: Site engineer, construction manager, consultant, quantity surveyor
10) University lab supervisor/academic (teaching and research assistant)
11) Surveyor
12) Working for a public authority
13) Architectural journalism


HU Master Plan
College of Architectural Engineering
2 Prince El-Hassan Bin Talal Faculty for Arid Lands
3 Faculty of Engineering
4 Queen Rania Faculty of Tourism and Heritage
5 Faculty of Physical Education and Sport Sciences
6 Faculty of Natural Resources and Environment
7 Faculty of Science
8 Faculty of Economics and Administrative Sciences
9 Faculty of Medicine
10 Faculty of Pharmaceutical Sciences
11 Queen Rania Faculty for Childhood
12 Faculty of Arts
13 University Administration
University Entrance

Ground Floor Plan Spaces	Dim. m	Num.	T.Area m²
Design Studio - DS	14x9.7	7	950.60
Open Studio	≈14x14/2	1	97.20
Office - AR	3.45x6	3	62.10
Services	-	-	55.13
Vertical Circulation	-	-	67.60
Total Floor Area (Circulation and Exhibitions Included)			2185



First Floor Plan Spaces	Dim. m	Num.	T.Area m²
Design Studio - DS	14x9.7	6	814.8
Office - AR	3.45x6	3	62.10
Services	-	-	55.13
Vertical Circulation	-	-	67.60
Meeting Room	-	1	101.40
NAAB Display Room	14.3x9.7	1	138.70
Total Floor Area (Circulation and Exhibitions Included)			1966



Second Floor Plan Spaces	Dim. m	Num.	T.Area m^2
College of Architectural Design	-	-	1989
Theater	11.4x25.9	1	295.26
Architectural Class Rooms	10.3x10.5	3	324.45
Vertical Circulation	-	-	-

Second Floor Plan Spaces	Dim. m	Num.	T.Area m²
Design Studio - DS	14x9.7	3	407.4
Office - AR	3.45x6	3	62.10
Services	-	-	55.13
Vertical Circulation	-	-	67.60
Labs	-	3	318.40
Computer Lab - CAD	9.7x6.95	5	337.00
Total Floor Area (Circulation and Exhibitions Included)			1989

Third Floor Plan Spaces	Dim. m	Num.	T.Area m^2
Library	1	1	256.65
Office - AR	-	41	≈ 720
Services	-	-	68.43
Vertical Circulation	-	-	67.60
Meeting Room	-	2	66.35
Total Floor Area (Circulation and Exhibitions Included)			1966

1) Digital Technology, Audio-Visual Resources, and Laboratories

The new building of Architectural Engineering is provided with fully digital technology and Audio-visual recourses, with wireless access throughout and wide distribution of power and data connections. This includes a grid of connections in floor boxes in computer labs. The classrooms and studio spaces provided with:

- SmartBoard
- Projector
- PC

2) Al Hussain Albani complex buildings contain three amphitheaters. The capacity of the first one is 720 students, while the capacity of the two others is 260 students each. Additionally, the complex consists of 32 classrooms equipped with the latest teaching and learning smart technologies. The capacity of each classroom is between 75-110 students. And the total capacity of all classrooms is 3000 students/hour.

3) The central atrium of the department is open on the four floors, which are used for exhibitions and juries for projects of different years and other student activities.

4) 17 design studios provided with the latest technologies and audiovisual resources. The capacity of each design studio is between 25-30 students. In between two design studios, there is a studio supervisor's office,

5) Printing room services the department, faculty, and university. It contains 2 HP plotters, different printers, hp desktops, laptops, and canners.

6) Two meeting rooms: the small one is located near the department's chair for ten persons, and it is used for small meetings. At the same time, the second meeting room is used for multi-purposes and is equipped with HUAWEI CloudLink Board: All-in-One Collaborative Telepresence. It contains a Built-in 65-inch touch screen, 5K ultra HD camera, arrayed MIC, codec, speaker, and stylus, which can cover all the scenarios. The 65-inch touch screen can satisfy content display in small and medium-sized conference rooms or open discussion spaces, local seminars, and remote interactive collaboration. Additionally, it contains on Built-in 12+1 arrayed MIC for clear voice pickup within 6 meters. Furthermore, it can be equipped with AirPresence, AirPresence Key, etc. to share content wirelessly quickly.

7) The third-floor plan of the department contains a guest hall, staff offices, and the department library.

8) Computer Resources:

The department has **SIX computer LABS**, three Graphic computer labs, a GIS lab, Interactive Pen Displays Lab, and a students' open lab. These labs are equipped with a CAT 6 network tied to campus via fiber optic cables throughout the building.

Each Lab is equipped with the following items:

Hardware	Software
• Smartboard • Projector • 20 PCs (HP EliteDesk, 800 G2, HP 23 LED Monitor)	• Autodesk AutoCAD • Autodesk Revit • 3D MAX • Autodesk Fusion360 • Lumion 8 • Vray 2.032&64 bit (plugin) • Adobe Photoshop &extended adobe illustrator • Design-Builder (for Architects) • GIS software • Microsoft office

	• Microsoft Word • Microsoft Access • Microsoft Publisher • Microsoft PowerPoint • Microsoft Excel

9) Interactive Pen Displays Lab:

In addition to the above hardware and software, this lab is equipped with (30 PCs) each supported with a Wacom creative display, an interactive drawing screen, and a pressure-sensitive pen. (Model: Wacom Cintiq 27 QHD) andHP Z 240 Tower workstation.

10) Printing Room:

The printer shop serves the department, faculty, and the university. It contains the following resources:

- HP DESIGN JET T 1100ps Plotter.
- HP DESIGN JET Z6100-60 Inch Plotter.
- LEXMARK C530 DN.
- Laser JET HP 5200.
- HP Printer 2015 N LASER.
- Scanner HP N 9120 as per catalogue.
- Scanner Epson GT 20000.
- Scanner wide teck 48C.
- Copy machine -Toshiba e-studio 352.
- Laptop- Fujitsu Lifebook AH 531.
- Laptop- HP ProBook 450 SI 7.
- Laptop- HP 250 G6 Notebook.
- Brochure Printer, Copier, and Scanner: Maximum Printing Resolution.
- A3 Color Printer

11) 40 Digital Drawing and Graphics Tablets (including drawing pen):

- Active Area: 152 x 95 mm (6.0 x 3.7 in)
- 4 Express Keys.
- Pressure Levels: 2048.
- Wireless Support.
- Resolution: 2540 LPI.
- Reading Speed (pen): 133pps.
- Technology: Patented electromagnetic resonance method.

12) Archiving Room:

Desktop Computer for archiving:

- CPU I7 6800K
- RAM 64 GB DDR5
- Display 24'' (3840*2160) 4K
- GPU NVIDIA GeForce – GTX 1080 TI, 512 GB SSD, 2 TB HDD.
- External drives: My book drives with an external power supply 6TB.

13) Fabrication Lab:

This lab's main goal is to enhance students' ability to produce a professional, accurate architectural model. This lab contains:

- Two Laser Cutter machines with the following specifications: laser-cutting machine RJ 1280P model, 130w, tube CW 3000, water chiller with air fan, and air compressor.
- Ultimaker S5: Powerful, reliable, versatile 3D printing
- CNS Machine (The tender for purchasing a CNS machine has been finished, with a value of 12828 JD (18 326 $), and it will be delivered during the month of 1/2022).
- Two 24-Sheet Cross-Cut Page
- Hot Wire Foam Cutter Table
- 30 Cutting Mat, Cutters, Rotary cutters, Art Knife, Triangular Architect Scales, Stainless Steel Rulers, 40-color Alcohol Marker, Artist Round Watercolor paint Brusher Set-12 Pcs, Oil Pastels Set of 48 Assorted Colors, Professional Watercolor Paper Block,

14) Acoustical Lab:

This lab is supplied with the following:

- Samurai software
- SINUS Acoustic Multichannel Universal Real-time Analysis Instrument
- Noise Pad
- Acoustic Calibrators
- Bedrock® BTB65 TalkBox
- QAM – Portable DSP Controlled Signal Generator Measurement Amplifier
- QREF – Sound Power Reference Source
- Sound Intensity Probe SIS 190
- Sound-intensity Calibrator Type 51AB

15) Lighting Lab:

This lab is supplied with the following:

- Orchard HELIODON
- Daylighting/ calculations
- Artificial lighting/methods of calculations

16) Energy Laboratory

The following machines are available in the energy lab:

- Subsonic Wind Tunnel:
- Thermal Conductivity Apparatus:
- Temperature control demonstration unit:
- TXC/FF. Free and Forced Convection Heat Transfer Module:
- Electronic console

17) Surveying Laboratory:

The following tools are available in the surveying lab:

- Laser Measure
- Range Poles

- Level staff
- Tripod
- Theodolite
- Total station
- Diameter
- GPS

18) Building Materials Laboratory:

The following devices are available in the building materials lab:

- Manual Vicat Apparatus
- Gilmore Apparatus
- Vibrator
- Flow Table

19) Engineering Workshops

The Faculty of Engineering is responsible for running engineering workshops, which include:

- Carpentry Workshop
- Electrical Wiring & Installation Workshop
- Heating & Pipe Fitting workshop
- Metal Cutting Workshop
- Sheet Metal Workshop
- Sand Casting Workshop (foundry)
- Welding Workshop

I.2.3 Financial Resources

The Department of Architecture Engineering is funded through annual budget allocations from the University Financial Affairs Unit. These allocations are determined in response to budget requests made by the Faculty of engineering. The Department of Architecture Engineering budget lines is divided between operations, capital, and scientific research. The tables below represent the budget for the Hashemite University, Engineering College, and the architectural Engineering Department.

The Hashemite University Budgets

Revenue/Expense Category	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**FY 2020**	**FY 2021 Up to (1-6-2021)**
Revenue (Jordanian Dinar JD)						
Self - Revenue						
Government Support						
Donations and Grants.						
Provisions for Retained Liabilities						
Budget Ddeficit						
Grants, Aid and Loans to Finance Buildings and Constructions						

Revenue Total (JD)						
Revenue Total ($)						
Expenditures (Jordanian Dinar JD)						
Recurrent Expenditures						
Capital Expenditures						
Scientific Research and Scholarships						
credit Expenses						
Buildings and Constructions Conditional on Financing						
Previous Budget Ddeficit						
Total Expenditures (JD)						
Total Expenditures ($)						

Engineering College Budgets

Revenue/Expense Category	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**FY 2020**	**FY 2021** Up to (1-6-2021)
Revenue (Jordanian Dinar JD)						
Undergraduate Students Tuition / Regular Program						
Undergraduate Students Tuition / Parallel Program						
Undergraduate Students Tuition / International Program						
Graduate Students Tuition						
Grants and other Revenues						
Revenue Total (JD)						
Revenue Total ($)						
Expenditures (Jordanian Dinar JD)						
Faculty Salaries						
Administrative Salaries						
scholarships cost						
Labs, computers, and other supplies						

Total Expenditures (JD)						
Total Expenditures ($)						

Architectural Department Budgets

Revenue/Expense Category	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**FY 2020**	**FY 2021** Up to (1-6-2021)
Revenue (Jordanian Dinar JD)						
Undergraduate Students Tuition / Regular Program						
Undergraduate Students Tuition / Parallel Program						
Undergraduate Students Tuition / International Program						
Graduate Students Tuition						
Grants and other Revenues						
Revenue Total (JD)						
Revenue Total ($)						
Expenditures (Jordanian Dinar JD)						
Faculty Salaries						
Administrative Salaries						
scholarships cost						
Labs, computers, and other supplies						
Total Expenditures (JD)						
Total Expenditures ($)						

Tuition fees in JDs for the Bachelor's degree in Architecture

The additional fees required for the Bachelor's degree are as follows:

Item	**Regular Program (JDs)**	**Parallel Program (JDs)**	**International Program (JDs)**
Admission fees (one time upon acceptance)	80.0	80.0	80.0
Non-refundable insurances (one time upon acceptance)	10.0	55.0	55.0
Placement test fees (one time upon acceptance)	15.0	15.0	15.0
Semester registration fees	30.0	135.0	135.0
Computer usage fee for each semester	10.0	35.0	35.0
Total	80.0 (upon registration) 40.0 (each semester)	320.0 (upon registration) 170.0 (each semester)	320.0 (upon registration) 170.0 (each semester)
Graduation fees	35.0	35.0	35.0

Credit hours fees for the Bachelor's degree in Architecture are as follows:

Minimum Admission Rate (High school average)	Regular Program (JDs)	Parallel Program (JDs)		International Program (JDs)
	Jordanian students with Jordanian high school certificate	Jordanian students with Jordanian high school certificate	Jordanian students with Non-Jordanian high school certificate	Non-Jordanian students
80%	50.0	90.0	100.0	120.0

Financial aid and Scholarships: There are various financial aids and scholarships provided by both university and external sources. Most scholarships are awarded based on academic merit, and some are also based on financial needs. The university works on the principle of equal opportunities and provides fair mechanisms for financial support to students. Applying for the grants and funding opportunities is done according to the donors' specific procedures, ensuring that the grants are given to the most in-need students and who meet the grant terms.

Additionally, the university and the Ministry of Higher Education offer student support loans for those in need. They cannot afford to cover the tuition fees at the beginning of the semester. Loans are typically offered at the beginning of the academic year or the beginning of the semesters, targeting a broad spectrum of students from all faculties and specialties.

Following is a list of donors and financial aid opportunities available for The Hashemite University students:

Fund / Scholarship	Number of university students benefiting from the scholarship	Donor
Royal fund scholarship	2807	External
Special Needs	44	The Hashemite University
University Employees	281	The Hashemite University
Arab Bank	3	External
Ministry of Higher Education / Non-Jordanians	68	Ministry of Higher Education
Arab Cultural Association	2	External
Promising Hands Association	8	External
Military Training Directorate	1	External
Royal Court Grants	140	The Hashemite University
The Jordanian Hashemite Fund for Development	18	Ministry of Higher Education
Student Support Grants (45 credit hours fees)	848	Ministry of Higher Education
Student Support Loans (45 credit hours fees)	2211	Ministry of Higher Education
Princess Mona Fund (Credit hours fees)	16	Ministry of Higher Education
First Ranked Students on the	74	Ministry of Higher Education

Governorate Levels		
Jordan Phosphate Mines Company	5	External
University Employees (other universities)	9	The Hashemite University
Queen Rania Award Scholarship	7	The Hashemite University
Al-Aman Fund for the Future of Orphans	50	External
Martyrs and Wounded in the Armed Forces	670	The Hashemite University
Royal Air Force Command - Training Directorate	5	External
Elia Nuqul Foundation Association	9	External
Employees of the Ministry of Education	1376	External
Saudi Arabia Consulate	3	External
Poverty Pockets Schools	68	Ministry of Higher Education
Petra Development and Tourism Region Authority	4	External
Embassy of Kuwait	102	External
Royal Medical Services	4	External
Top Ranked Students in the Jordanian High School Certificate	7	Ministry of Higher Education
Prince Hassan Award	1	Ministry of Higher Education
Noor Al Hussein Foundation	7	External
Central Bank of Jordan	1	External
Kuwaiti Scholarship	Number not available	The Hashemite University
Student Employment	Number not available	The Hashemite University
Student Support Fund	Number not available	The Hashemite University

Hashemite University
Financial Affairs Unit

List of donors and financial aid opportunities available for Architecture students at The Hashemite University

Date: 16/1/2021

Semester: Fall 2020 /2021

Fund / Scholarship	Amount JD	Number of University students benefiting from the scholarship	**Number of Architecture students benefiting from the scholarship**	Doner

Royal fund scholarship	1402080	2807	**11**	External
Ministry of Higher Education / Non-Jordanians	39517,50	68	**1**	Ministry of Higher Education
Fund / Scholarship-Student Support Grants (45 credit hours fees)	411195,50	848	**11**	Ministry of Higher Education
Student Support Loans (45 (credit hours fees	933869,00	2211	**22**	Ministry of Higher Education
Employees of the Ministry of Education	865158,00	1376	**54**	Ministry of Education
Sum	3651820,00	7310	**99**	

Instructions for loans provided at the Hashemite University

Loans granted to the students aim to encourage them to continue their studies at the university.

- Quarterly or annual loans are paid for students registered at the Hashemite University to obtain a university degree, as the committee deems appropriate, according to the following conditions:

1. The student provides proof of his need for the fund to match the criteria set by the committee.
2. The student applicant should not be sponsored by an official entity.
3. The student does not benefit from other scholarships or funds.
4. The student is not an employee or receives a salary from any official entity.
5. The student has enrolled in the university for at least one academic semester.
6. The student has not been issued any disciplinary penalties.

- The applicant student provides a financial guarantor to sign the bills of exchange for the amount borrowed based on the guarantee and the value of the amount borrowed and determined by the committee.

- Repayment of the loan begins six months after graduation, subject to the capability of the graduate. The committee may postpone repayment for a period upon a request from the beneficiary if it is satisfied with the reasons for that.

- The borrowed amount is to be paid in monthly installments, which is determined by the committee.

The following are details about a group of grants and funding opportunities offered by the university.

Student employment: The university offers students working opportunities while enrolled in their study programs as part of its policy to support students to help them cover their study expenses, provided that it does not conflict with the times of lectures. Students subject to the conditions are distributed among the various departments in the university according to their needs and in line with students' preferences and interests. Students are employed during the first and second semesters of each academic year and within the following conditions:

1. The student studies at his own expense.
2. The student has enrolled in the university for at least one academic semester.
3. The student has not been issued any disciplinary penalties.
4. The student's cumulative average is not less than 2.00 points.

Student Support Fund: The Fund receives, studies, and follows up requests for refunds of loans for needy students. Requests are applied for during the first and second academic semesters of each academic year at rates ranging from (60% to 90%) and within the following conditions:
1. The student studies at his own expense.
2. The student has enrolled in the university for at least one academic semester.
3. The student has not been issued any disciplinary penalties.
4. The student's cumulative average is not less than 2.00 points.
5. The student provides proof of his need for the fund.

The Jordan Dinar (JD) Initiative: Students are granted financial aid through the JD initiative. This is offered quarterly and within the following conditions:
1. The student is registered for the semester in which they apply to benefit from the initiative.
2. The student has not been issued any disciplinary penalties.
3. Submit a certificate of good behavior signed by the Dean of Student Affairs.
4. The student provides proof of his need for financial aid.
5. The student does not benefit from other scholarships or funds or has been financially supported by any party.
6. The student is in his second academic year or above.
7. To benefit from the amounts granted in the same semester, the student applies for the initiative.
8. Priority is given to students who have not previously benefited from financial support.

I.2.4 Information Resources

The library has started serving students and researchers since the establishment of the Hashemite University in 1995, with a total area (12,000 m 2). In addition to the main building, the university has established a specialized library for the medical facilities located in the medical complex in the university. By the end of 2019, two new specialized libraries are expected to be opened for the Architectural department and the faculty of pharmaceutical science.

The library is centrally located in the university, which makes it a prime location surrounded by all faculties; it operates in an administrative hierarchy that guarantees the high quality of services for both academic and administrative staff, along with researchers and students, besides serving the local community. Around 3000 – 5000 researchers or users use the library daily to circulation, reading, studying, and searching. The library opens for users five days a week from Sunday to Thursday from 8 AM – 4 PM.

Goals and aspirations of the library:

The Library aspires to be the center of intellectual, cultural, and scientific life in the university Through its strategic plan, looking to acquisition and holding high-quality content, and make them available for users as soon as they are required, enhancing the role of the library in raising the quality and the ranking for the research and graduate students, through enabling all recent and required resources for researchers and students.

Library Holding

The library holds around (183.000) printed books and (36.000) different items, including periodicals, university thesis, reports, and references, in various disciplines of scientific and humanitarian majors. Additionally, the library provides access to more than 300000 online books.

Services: The Hashemite University Library offers the following services:

- Digital Library is effective and easy-to-entry for library users to see the electronic content provided by the library through the deep knowledge portal, from inside and outside the campus of the university,
- Unified search system (Summon) is an advanced search system (a comprehensive search engine, a central search engine) that provides the ability to searching and entrance by the easy procedure to all the sources of electronic information at the digital library,
- A radiofrequency identification system (RFID) effectively manages the library's holdings and facilitates their use through easy access, circulate, and return.
- Online Systems & Integrated Library system,
- Ask a librarian through Help Desk & via E-mail,
- Photo Copy Services,
- Mutual circulation services and articles requesting: the university library allows its users to secure the accessibility to the contents of a large collection of libraries partner (Jordanian Government Universities, the British Library) and circulated through the library.
- Online Public Access Library Catalogue for searching,
- Audio-visual services are available to researchers and 20,000 references in various disciplines,
- 3D techniques. This service allows users to print, photograph, and view data in a 3D format,
- The Library of the Family and Childhood: The library of the Hashemite University has distinguished itself from other universities in Jordan and the Middle East by establishing a library for children,
- Several cultural agreements have been signed between the Hashemite University and several foreign embassies in the Hashemite Kingdom of Jordan and some local institutions. Some cultural corners were established in the library, such as: (American Corner, Social Work Corner, Prince Al Hassan Bin Talal Corner),
- Prince Al Hassan Bin Talal Corner: A specialized and well-equipped hall in a worthy manner of His Highness's global, regional and local status as researcher, scientist, and thinker, especially in the field of interfaith dialogue and global cultural dialogue,
- The University Library provides a wide range of entertainment facilities, including access to journals and magazines as well as the means of viewing and watching films of various kinds, in addition to the possibility of using a set of interactive games (Wii),
- Providing Academic privacy sessions.
- Providing Specialized Hall for Master and dissertation defense,
- Providing an Open Budget to Purchase Books and references in different disciplines,
- Library special event support services (i.e., Seminar rooms),
- Wi-Fi Services,
- Local community: The library and within the University's mission in the field of community service providers and facilitate the use of the available information tools and services to obtain the full text of studies and scientific research and use of audiovisual materials and reading materials as well as the use of publications and publications of its own the university.
- Group study rooms and cafeteria (Under Construction),
- Book drop facilities during off times,
- A Specialized Corner That Serves People With Special Needs Is Available In The Hashemite University Library,
- Monthly Activities & training program for new students,
- Document Delivery through British Library,

ICT equipment & SW available at the central library and Medical library:

ICT Facilities	Ground Floor	1st.Floor	2nd. Floor
General use computers	44	4	2
Computers (special needs)	3	-	-
Computers (lab)	-	82	-
Computers(medical library)	-	8	-
Computers (AM)Laptop	9	-	-
OPACs	8	3	-
OPACs (special needs)	2	-	-
Self-checkout Machines	2	-	-
Scanner	4	-	-
BW printer	10	2	-
Receipt printer	2	-	-
Printer (3D)	1	-	-
Label printer	3	-	-
Projector	1	-	-
Video Conference Facility	1	-	-
Barcode reader	5	-	-
UPS	1	-	-
Desktop RFID Acquisition workstation	1	-	-
Desktop RFID circulation work station	1	1	-
Security gate single corridor	-	1	-
Security gate double corridor	1	-	-
Semi-Automatic external book droop from outside the library walls	1	-	-
Turnstile tripod	4	-	-
Data show	3	-	-
Photocopy	2	-	-
Smartboard	1	-	-
DVD player	3	-	-
Radio & cassette player	1	-	-
Sound system (speakers)/main	1	-	-
Sound system	3	-	-
Video player	1	-	-
Display screen (monitor)	8	-	-
TV	4	-	-
Microfilm and Microfiche	1	-	-

ICT types of equipment & SW available at the Architectural library:

Item	Qty
RFID Workstation Shielded Added : • Receipt printer (1) • Barcode scanner(1)	1
Security gate single corridor direct mount (RFID gate premium)	1
UPS	1
Computer (Employee)	1
Computer (OPACs)	2
Computer (Online DB)	2
Computer (Special Needs)	1

Printer	1
Scanner	1
Photocopy	1

Software Available

- Adobe Dream Weaver
- Adobe Flash Professional
- Adobe Photoshop
- Adobe After Effects
- Adobe Audition
- Adobe Bridge
- Adobe Character Animator (Preview)
- Adobe Illustrator
- Adobe In Design
- Adobe Media Encoder
- Adobe Premiere Pro
- Adobe Premiere Rush
- Adobe reader/write
- AutoCAD
- EndNote
- Microsoft Office
- Microsoft Visio and MS-Project professional
- Real player
- SPSS
- WinZip / Win RAR
- Plagiarism

Total number of Books and Periodicals in the Hashemite University library

E-Books	300000
Printed books (Copies)	183000
Periodicals	27853
Titles of The Arabic Periodicals	602
Titles of The Foreign Periodicals	1064
Number of Arabic Periodicals Volumes	11660
Number of Foreign Periodicals Volumes	16193

Databases: It is available on the Library page through the portal of the Deep Knowledge Portal (Accessible from the campus or outside of all beneficiaries)
(These rules are always changing because there are trial periods of companies for the Library and Center of Excellence)

First: The databases shared by the library

- Scopus
- Clarivate Analytics (Web of Science)
- IEEE / IEL (individual subscription)
- EBSCO
- Proquest Central
- Proquest SciTech
- Springer
- Taylor & Francis (Medical Collection)
- Emerald (individual subscription)
- Up-to-date:(individual subscription) work on the renewal of the convention
- Dar Almandumah (Human Index, EduSearch, Thesis, AraBase, IslamicInfo, Ecolink) (individual subscription)
- E Library (E-books)

Second: More than 300 free electronic databases are available on the Library's website (through the Library of Congress). Databases proposed by the Library Unit for the year 2019-2020:

- Visible Body
- Lippincott's Nursing Procedure
- Lippincott's Nursing Advisor
- Scival
- Science Direct
- Wiley
- RSC
- AMS
- SciFinder

- Ulrich's

Number of the books related to architecture

Topics (classification)	Dewey Decimal Classification (DDC)	Titles	Copies
Technical drawing	604-604.25	87	124
Buildings	690-698.9	374	540
Civic & landscape Art	710-729.8	753	1012
Total		1214	1676

Architectural Department Library

The architectural department has created a disciplinary library within its building. It costs approx 100,000.00 JD (143,000.00 $). It is now ready for students to use. All students, faculty, and staff have convenient, equitable access to the literature, information, and online electronic library and appropriate visual and digital resources that support professional education in the field of architecture. The HU university relies on a large university system within the country to support students' research and study needs and for course preparation. Additionally, the main library can provide any articles requested from students, faculty, and staff.

Approx 1000 titles related to the discipline of architecture were transferred from the main HU library to the department library, and the rest remains at the main library. Additionally, 200 new books were purchased. The university relies on a larger university system within the country and an online electronic library to support students' research and study needs and for the course preparation. Moreover, the department will purchase new books for 12000$ next year. The new library is equipped with the latest technologies, as shown in the table below.

Description	**Brand & Country of Origin**	**Qty**
Bibliotheca RFID Workstation Shielded	Bibliotheca/Germany	1
Epson EPSON TM-T88VI	Epson	1
HONEYWELL BARCODE SCANNER 9540	Honeywell/American Brand Manufactured in China	1
Bibliotheca RFID gate premium direct mount, 1 aisle, Operating frequency: 13,56 MHz, Max. Transmitting power: 8 W	Bibliotheca/Germany	1
(SRV6KI) APC UPS On-Line SRV 6000VA 230V	APC European Brand Manufactured in China	1

bibliotheca RFID gate premium: the most accommodating, wide aisle security gate

Offering the most accommodating aisle entrance for libraries, the RFID gate premium is perfect for wheelchairs, wide strollers, and large students. With a modern and stylish clear panel design, the bibliotheca RFID gate premium effectively deters the theft of valuable library materials while enhancing the library aesthetic.
By increasing the width of the aisles, libraries create a more welcome and inviting entrance, easy for wheelchairs and strollers to pass through. In addition, the extended aisle gate allows libraries to place gates wider apart without compromising on detection rates.
The intuitive and easy-to-use software helps libraries analyze foot traffic and triggered alarm patterns quickly and easily from a staff workstation. By providing library staff with detailed and reliable insights, they can make better data-informed decisions about their library.

bibliotheca RFID workstation shielded :desktop solutions designed to assist staff with administration activities

The workstation shielded provides staff with a fast and efficient solution to program and verify RFID tags. Library staff can now have the ability to add or remove item security without the LMS/ILS. The system can be used with multiple items of mixed media placed on the antenna at any time.

Additionally, using our staff Connec circ software, the workstationTM allows staff to perform multiple item issues, return and renew processes at the staff desk using a direct link with the LMS/ILS, including the ability to print receipts for the customer.

Voyager 9520/VoyagerCG 9540 :Single-Line Laser Scanners

Honeywell's Voyager 9500 series of hand-held, single-line laser scanners scan all standard 1D bar codes aggressively. As a result, the Voyager series of hand-held, single-line bar code scanners have united form with function in becoming the industry benchmark for value and performance.

These sleek scanners feature patented automatic infrared activation and decode all standard 1D bar codes, including GS1 DataBarTM (formerly known as RSS codes).

VoyagerCG 9540 also includes patented CodeGate technology which allows the user to easily target the desired bar code and complete data transmission with the press of a single button.

I.2.5 Administrative Structure and Governance

A. Administrative Structure

The Hashemite University is one of the Jordanian state-run universities governed by the Board of Trustees (appointed by the government) and the Ministry of Higher Education in Jordan. The Board of Trustees is the final governing body of the institution. The Board of Trustees is responsible for controlling and directing the university's affairs, property, and interests. It may exercise all powers and authorities conferred upon the University by law. It consists of Board President, 11 members, and the University President. The HU President, Prof. Fawwaz M. Al-Abed Al-Haq, is responsible for the administration of the University, subject to the control of the Board of Trustees. President fosters and promotes education, research, and service as the primary aims of the University. The university is divided into several units, which handle its financial, academic, legal, communications, human resources, student development, alumni relations, and external affairs. All units are connected either by the President or by four vice presidents and shown in Table (9). The Three Vice Presidents report directly to the University President as they are the institution's second-in-command. They have the chief responsibility for advancing the academic and administrative mission of the university.

The HU faculty and students can participate in governance at many levels, from the institution to individual programs. The University Council includes two faculty representatives and two students. The University Council supports Faculty responsibility and accountability concerning duties in teaching, research, publications, and University and community service.

B. Student Government

The HU Student Council (HUSC) plays an essential role on the campus. It gives students and student leaders many opportunities to actively affect the direction of the university and promote effective change on campus. Each college has a student council that interacts with each other and with HUSC to solve

specific problems within each college and university-wide issues. The Engineering College Student Council has student representation from each department.

C. Engineering College Governance

The academic programs of the Engineering College are organized into eight departments: and the Architectural Department is one of them. The Dean (Prof Awni Itradat) is the Chief Academic and Administrative Officer of the College. HU organizational structure facilitates the direct reporting of each Department Chairperson to the Dean. HU organizational structure also fosters regular meetings to collectively pursue opportunities to explore creative sharing of facilities, spaces, faculties, staff, and technology assets. The Dean is responsible for developing and implementing college-wide policies supported by two Vice Dean, two Dean Assistances (one for Students Affairs and the other for Industry Outreach), and Working Committees. The Faculty Council consists of the Dean, Vice Dean, two Dean Assistances, Department Chairs, and one Representative from each department. The Dean's office directs college operations and reports directly to the Vice President for Academic and Administrative Affairs (Prof Khalid AlHyari). This results in a short, effective, and responsive decision-making relationship with the University administration. Within the College, the goal is to keep lines of communication short and simple. Within this structure of the College, the Architectural Department Chair is the head of that academic unit and chief administrator of the Architectural program. Faculty and staff from each department may participate in the College governance service through participating in the different College Committees, as Shown in Table (10).

Table (9). Deanships, Colleges, Units, and Centers that report directly to HU President or Vice Presidents

HU President, Prof Fawwaz M. Al-Abed Al-Haq	Vice President, Prof Abidalbasit Alzyoud	Vice President, Prof Khalid Alhyari	Vice President, Prof Hussam AlDeen Khadash	Vice President, Prof Sultan Al Manni
• Deanship of Students Affairs • Admissions and registration Unit • Financial Affairs Unit • Human Resources Unit • Public Relation Unit • Presidency Office • Medical Health Center and Hospitals • Legal Affairs Office • Faculty of Medicine • University Security Department	• Faculty of Education and Sport Science • Faculty of Arts • Community-based Rehabilitation Center • Refugees affairs Studies Center • Queen Rania Faculty for Tourism and Heritage • Queen Rania Faculty for Childhood • Faculty of Strategic government Studies • Center for Women's Studies in the Community	• Faculty of Engineering • Prince Al Hussein Bin Abdullah II Faculty of IT • Faculty of Natural Resources & Environment • Prince Al Hassan Bin Talat Faculty for Arid Lands • Faculty of Science • Faculty of Pharmaceutical Science • Faculty of Applied Health Science • Faculty of Nursing • Language Center • Applied Research Center in Therapeutic Care Management and Patient Services • Creativity and innovative projects Center • Productive Services and Workshops Center	• Faculty for Economics and Administrative Science • Information, Communication, and e-Learning Technology Center • Engineering and Maintenance Department • Public Services Department • Department of Environment and Public Safety • Supplies Department • Health Insurance Department • Central Tenders Office • Big Data and Artificial Intelligence Center	• Faculty of Graduate Study • Deanship of Scientific Research • Deanship of Academic Development and International Outreach • Center for Studies, Consultations, and Community Services • Service-Learning Center • Library Unit

Table (10): Working Committees in the Engineering College (2020-2021)

Committee	Involvement in Collage Governance
The scientific research and accreditation committee	• departments chairs
The graduation projects and practical training committee	• one faculty member elected from each department working committee
The Curriculum development committee	• one faculty member elected from each department working committee or departments chairs
The Strategic Plan committee	• one faculty member elected from each department working committee
The NAAB committee	• All Ph.D. Holders in the Architectural Department
The Laboratories committee	• one faculty member elected from each department working committee
The Social Committee	• one faculty member elected from each department working committee
The Examinations Committee	• one faculty member elected from each department working committee
The Appointment and Promotion Committee	• Collage Council
The class schedule committee	• departments chairs
The graduate follow-up committee	• one faculty member elected from each department working committee
Courses equation committee	• one faculty member elected from each department working committee
The education resources and technologies committee	• one faculty member elected from each department working committee
The advisory committee	• departments chairs
Simplification of academic and administrative procedures committee	• one faculty member elected from each department working committee
Research groups and opportunities committee	• one faculty member elected from each department working committee
Scientific incubator and Leadership committee	• one faculty member elected from each department working committee
Electronic publications committee	• one faculty member elected from each department working committee
Academic programs marketing committees	• one faculty member elected from each department working committee
Projects and international funds committee	• one faculty member elected from each department working committee
Environmental and spatial development of the College committee	• one faculty member elected from each department working committee
Initiatives for the development of academic, administrative and technical work at the university committee	• one faculty member elected from each department working committee

D. Department Governance

Department Chairs are also responsible for supervising their faculties, studios, computer labs, facilities, and labs, hiring faculty, scheduling academic offerings, administering academic and institutional policies, coordinating with the registrar, and overseeing aspects of the academic program and student advisement.

The department chair is the faculty member responsible for the daily operation of the program as well as long-term oversight of planning, scheduling, and curriculum development. The department chair reports directly to the dean of the college. The Architecture Department Chair has complete academic autonomy, together with the Department faculty. Major resource decisions are made in consultation with the Dean.

The program chair is primarily responsible for the Architectural Engineering Program, assisted and supported by several working committees. All decisions are taken in the department council. The Dean, the vice-dean, and the Collage Council support and facilitate the execution of these activities through the provision of the necessary resources and guidance when needed.

Faculty members in the Architectural Department are highly empowered and heavily involved in the guidance of the program, as well as in the definition and the execution of the assessment and evaluation processes that pertain in particular to the program's educational objectives and student outcomes through several committees created for this purpose. Table (11) summarizes these committees and their roles and responsibilities in the program. Most of these committees fall under the umbrella of a parent committee at the Faculty of Engineering level. Departmental working committees work coherently and coordinated with college committees to achieve their various roles and responsibilities. For example, the "curriculum development committee" studies any proposed development to the curriculum and makes its recommendations to the engineering faculty council. The department council discusses proposals to develop the curriculum so that all faculty members participate in decision-making.

Table (11). Working Committees in the Architectural Department (2020-2021)

Committee	Members	Role and Responsibility
	●	●
	●	●
	●	●
	●	●
	●	
	●	●
	●	●
	●	●
	●	●
	●	●
	●	●
	●	●
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	●	●
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	●	●
	●	●
	●	●
	●	●
	●	●
	●	●
	●	●

All faculty members are involved in the NAAB accreditation activities and are responsible for the following:

- Providing syllabi of the courses they are teaching
- Providing their updated CV
- Performing a direct assessment of their courses
- Evaluating the results of indirect assessments of their courses
- Proposing action plans to improve student's performance in their courses
- Providing the course portfolios of their courses
- Participating in advising students

The Department Council consists of all faculty members. They meet regularly and discuss curricular matters, appointments, promotions, proposals, and recommendations from Department Committees. The regular Department Council meetings provide opportunities for questions, comments, and inputs; the faculty committees further organize involvement.
All important decisions and conclusions drawn by the committees listed in Table (11) are submitted to the Department Council for final discussions and approval. The recommendations from the Department Council have to be verified and approved by the dean, dean's council, and the president. The entire search procedure must be carefully documented and submitted to the HU Precedence office for approval (see Criteria and Procedures in Faculty Appointments section as an example). Figure (3) shows the HU organizational chart illustrates the Department, College, and University.

Figure (3): the HU organizational chart illustrates the Department, College, and University.

Part One, Section 3 – Program Characteristics

I.3.1 Statistical Reports

Number of faculty members of the University and Engineering Faculty as per the academic year 2020/2021.

Academic Rank	Engineering Faculty		The Hashemite University		Architectural Department	
	Male	Female	Male	Female	Male	Female
Professor	21	0	137	18	1	0
Associate Professor	32	4	172	45	1	2
Assistant Professor	37	13	200	63	1	3
Teacher	4	5	18	31	0	1
Teacher Assistant	4	16	18	31	1	8
Total	98 (72%)	38 (28%)	545 (74%)	188 (26%)	4 (22%)	14 (78%)

Note: Race and ethnicity are unknown

Number of the academic staff and students

Year	Academic Staff	Students	Student/Faculty
2011	541	19465	36
2012	573	23629	41
2013	584	25963	45
2014	607	28532	47
2015	649	28672	44
2016	664	26351	39
2017	682	25396	37
2018	685	23367	33
2019	697	21241	30
2020	739	21369	29
2021	745	23523	32

Note: Race and ethnicity are unknown

Number of Administrative staff of University and Engineering Faculty as per the academic year 2020/2021

Administrative staff	Engineering Faculty		The Hashemite University	
	Male	Female	Male	Female
Total Administrative staff	19 (54%)	34 (46%)	560 (64%)	332 (36%)

Note: Race and ethnicity are unknown

Number of the Scholarships awardees in University, Engineering Faculty, and architectural Department as per the academic year 2020/2021

Scholarships awardees	The Hashemite University		Engineering Faculty		Architectural Department	
	Male	Female	Male	Female	Male	Female
1/1/2013 – 31/12/2013	15	5	1	1	0	0
1/1/2014 – 31/12/2014	11	8	3	3	0	0
1/1/2015 – 31/12/2015	16	6	7	1	0	0
1/1/2016 – 31/12/2016	27	12	14	3	1	0
1/1/2017 – 31/12/2017	23	8	6	3	0	1
1/1/2018 – 31/12/2018	18	15	2	1	0	0
1/1/2019 – 31/12/2019	6	8	0	0	0	3
1/1/2020 – 31/12/2020	15	13	1	2	0	0

Total	131 (64%)	75 (36%)	34 (71%)	14 (29%)	1 (20%)	4(80%)
	206 (100%)		48 (100%)		5 (100%)	

Note: Race and ethnicity are unknown

Number of Faculty by Rank: the matrix below indicates the faculty of the Architectural Engineering Department by specialization and academic rank. This includes faculty on deputation or on study leave, (All the faculty members are full time).

Professor	1
Associate Professor	3
Assistant Professor	4
Lecturer	10
Total Faculty Members	18
Scholarship to get Ph.D.	4
Lab Supervisor	3
Nominated to Pd.D.	3
Technician	3

Name	Gender	Specialization	Academic Rank	
Shaher Rababeh	M	Architectural Construction Techniques	Professor	
Rama Al Rabady	F	Architectural Historical Restoration	Associate Professor	
Shatha Abu Khafajah	F	Cultural Heritage Management	Associate Professor	
Ahmad AlHusban	M	Architectural Design	Associate Professor	Chair of architectural dep.
Yamen AlBetawi	M	Urban design and planning	Assistant Professor	
Siba Awawdeh	F	Sustainable Architecture	Assistant Professor	
Umaimah Al Aqtash	F	Building Construction	Assistant Professor	
Ahlam AlShareef	F	Sustainable Architecture	Assistant Professor	
Fadael AlTammoni	F	Architectural Design	Lecturer	
Ebtisam Khasawneh	F	Urban Design	Lecturer	
Lina Shaqra	F	Sustainable Design	Lecturer	
Rabab Muhsen	F	Architectural Design	Lecturer	
Tahani Alkeelani	F	Urban Planning	Lecturer	
Haneen Khamaisah	F	Urban Design	Lecturer	
Ruba Odeh	F	Structural Engineering	Lecturer	
Rama Al Majali	F	Architectural Design	Teacher Assistant	
Dania Al Harasis	F	CAD	Teacher Assistant	
Qusai Al Khaldi	M	Environmental Design	Teacher Assistant	
Majd Al Beek	F	CAD	Teacher Assistant	
Yahia Qutaishat	M	Traditional Architectural Identity and Sustainability	Scholarship awardees to get Ph.D.	
Halla Ghumaim	F	Landscape Architecture	Scholarship awardees to get Ph.D.	
Muna AlSukkar	F	Architecture and Built Environment	Scholarship awardees to get Ph.D.	

Bayan AlFaouri	F	Local and Contemporary Architecture	Scholarship awardees to get Ph.D.	
Haneen Otham	F	Teacher Assistant	Lab Supervisor	
Shireen Athamnah	F	Teacher Assistant	Lab Supervisor	
Shireen Al Jabari	F	Teacher Assistant	Lab Supervisor	

Students Characteristics:

Academic year	Entering Students Male	Entering Students Female	Total Entering Students	Total Current Student Students
2006-2007	7 (26%)	20 (74%)	27	625 Graduated
2007-2008	5 (14%)	32 (86%)	37	
2008-2009	17 (38%)	28 (62%)	45	
2009-2010	8 (13%)	53 (87%)	61	
2010-2011	11 (24%)	43 (76%)	54	
2011-2012	32 (31%)	72 (79%)	104	
2012-2013	20 (23%)	67 (77%)	87	
2013-2014	15 (17%)	73 (83%)	88	
2014-2015	21 (25%)	64 (75%)	85	
2015-2016	16 (25%)	48 (75%)	64	
2016-2017	11 (26%)	31 (74%)	42	230 Total current Students (24% Male, 77% Female) 23 students transfer to other specialties
2017-2018	9 (20%)	37 (80%)	46	
2018-2019	12 (20%)	47 (80%)	59	
2019-2020	13 (21%)	49 (79%)	62	
2019-2020	15 (30%)	35 (70%)	50	
Total	**212 (23%)**	**699 (77%)**	**911 (100%)**	

The number of students and faculty members of the Architectural Program by Gender and Nationality for the academic year 2020/2021.

The number of students and faculty members of the Architectural Program by Gender and Nationality for the academic year 2020/2021.

Category	Jordanian Nationality	Non-Jordanian Nationality	Total
Male Students	44 (13%)	5 (2%)	49 (13%)
Female Students	177 (87%)	4 (1.7%)	181 (87%)
Male Staff	6 (23%)	0	8 (23%)
Female Staff	20 (77%)	0	18 (77%)

The number of non-Jordanian students of the Architectural Program by Nationality for the academic year 2020/2021.

Nationality	Male	Female	Total
Palestine	5 (56%)	2 (22%)	7 (78%)
Kwait	0 (0%)	2 (22%)	2 (22%
Total	5 (56%)	4(44) (%)	5 (100%)

Part Two, Section 1 – Educational Outcomes and Curriculum

II.1.1 Student Performance Criteria (SPC)

The International Certification degree program must demonstrate that each graduate possesses the knowledge and skills defined by the Student Performance Criteria set out below. The knowledge and skills defined here represent those required to prepare graduates for the path to internship, examination, and licensure and to engage in related fields. The program must provide student work as evidence that its graduates have satisfied each criterion.

The criteria encompass two levels of accomplishment:

- Understanding: The capacity to classify, compare, summarize, explain and interpret information
- Ability: Proficiency in using specific information to accomplish a task, correctly selecting the appropriate information, and accurately applying it to the solution of a specific problem while also distinguishing the effects of its implementation.

II.1.1 Student Performance Criteria (SPC): The NAAB establishes Student Performance Criteria to help substantially equivalent degree programs prepare students for the profession while encouraging educational practices suited to the individual degree program. The SPC is organized into realms to understand the relationships between each criterion more easily.

Realm A: Critical Thinking and Representation

Graduates from substantially equivalent degree programs must build abstract relationships and understand the impact of ideas based on the study and analysis of multiple theoretical, social, political, economic, cultural, and environmental contexts. Graduates must also use diverse skills to think about and convey architectural ideas, including writing, investigating, speaking, drawing, and modeling.

- Being broadly educated
- Valuing lifelong inquisitiveness
- Communicating graphically in a range of media
- Recognizing the assessment of the evidence
- Comprehending people, place, and context
- Recognizing the disparate needs of the client, community, and society

The accredited degree program must demonstrate that each graduate possesses the following:

A.1 Professional Communication Skills: *Ability* to write and speak effectively and use appropriate representational media for both, within the profession and with the public.

A.2 Design Thinking Skills: *Ability* to raise clear and precise questions, use abstract ideas to interpret information, consider diverse points of view, reach well-reasoned conclusions, and test alternative outcomes against relevant criteria and standards.

A.3 Investigative Skills: *Ability* to gather, assess, record, and comparatively evaluate relevant information and performance in order to support conclusions related to a specific project or assignment.

A.4 Architectural Design Skills: *Ability* to effectively use basic formal, organizational, and environmental principles and the capacity of each to inform two- and three-dimensional design.

A.5 Ordering Systems: *Ability* to apply the fundamentals of both natural and formal ordering systems and the capacity of each to inform two- and three-dimensional design.

A.6 Use of Precedents: *Ability* to examine and comprehend the fundamental principles present in relevant precedents and to make informed choices about the incorporation of such principles into architecture and urban design projects.

A.7 History and Global Culture: *Understanding* of the parallel and divergent histories of architecture and the cultural norms of a variety of indigenous, vernacular, local, and regional settings in terms of their political, economic, social, ecological, and technological factors.

A.8 Cultural Diversity and Social Equity: *Understanding* of the diverse needs, values, behavioral norms, physical abilities, and social and spatial patterns that characterize different cultures and individuals and the responsibility of the architect to ensure equity of access to sites, buildings, and structures.

Realm B: Integrated Building Practices, Technical Skills, and Knowledge:

Graduates from a substantially equivalent degree program must be able to comprehend the technical aspects of design, systems, and materials and be able to apply that comprehension to architectural solutions. In addition, the impact of such decisions on the environment must be well considered.

- Student learning aspirations for this realm include
- Creating building designs with well-integrated systems.
- Comprehending constructability.
- Integrating the principles of environmental stewardship.
- Conveying technical information accurately

The substantially equivalent degree program must demonstrate that each graduate possesses skills in the following areas

B.1 Pre-Design: *Ability* to prepare a comprehensive program for an architecture project that includes an assessment of client and user needs; an inventory of spaces and their requirements; an analysis of site conditions (including existing buildings); a review of the relevant building codes and standards, including relevant sustainability requirements, and an assessment of their implications for the project; and a definition of site selection and design assessment criteria.

B.2 Site Design: *Ability* to respond to site characteristics, including urban context and developmental patterning, historical fabric, soil, topography, ecology, climate, and building orientation, in the development of a project design.

B.3. Codes and Regulations: Ability to design sites, facilities, and systems that are responsive to relevant codes and regulations, and include the principles of local life-safety and accessibility standards.

B.4 Technical Documentation: *Ability* to make technically clear drawings, prepare outline specifications, and construct models illustrating and identifying the assembly of materials, systems, and components appropriate for a building design.

B.5 Structural Systems: *Ability* to demonstrate the basic principles of structural systems and their ability to withstand gravitational, seismic, and lateral forces, as well as the selection and application of the appropriate structural system.

B.6 Environmental Systems: *Ability* to demonstrate the principles of environmental systems' design, how design criteria can vary by geographic region, and the tools used for performance assessment. This demonstration must include active and passive heating and cooling, solar geometry, daylighting, natural ventilation, indoor air quality, solar systems, lighting systems, and acoustics.

B.7 Building Envelope Systems and Assemblies: *Understanding* of the basic principles involved in the appropriate selection and application of building envelope systems relative to fundamental performance, aesthetics, moisture transfer, durability, and energy and material resources.

B.8 Building Materials and Assemblies: *Understanding* of the basic principles used in the appropriate selection of interior and exterior construction materials, finishes, products, components, and assemblies based on their inherent performance, including environmental impact and reuse.

B.9 Building Service Systems: *Understanding* of the basic principles and appropriate application and performance of building service systems, including lighting, mechanical, plumbing, electrical, communication, vertical transportation, security, and fire protection systems.

B.10 Financial Considerations: *Understanding* of the fundamentals of building costs, which must include project financing methods and feasibility, construction cost estimating, construction scheduling, operational costs, and life-cycle costs.

Realm C: Integrated Architectural Solutions.

Graduates from a substantially equivalent degree program must be able to demonstrate that they have the ability to synthesize a wide range of variables into an integrated design solution.

Student learning aspirations for this realm include

- Comprehending the importance of research pursuits to inform the design process.
- Evaluating options and reconciling the implications of design decisions across systems and scales.
- Synthesizing variables from diverse and complex systems into an integrated architectural solution.
- Responding to environmental stewardship goals across multiple systems for an integrated solution.
- Knowing societal and professional responsibilities

C.1 Research: *Understanding* of the theoretical and applied research methodologies and practices used during the design process.

C.2 Integrated Evaluations and Decision-Making Design Process: *Ability* to demonstrate the skills associated with making integrated decisions across multiple systems and variables in the completion of a design project. This demonstration includes problem identification, setting evaluative criteria, analyzing solutions, and predicting the effectiveness of implementation.

C.3 Integrative Design: *Ability* to make design decisions within a complex architectural project while demonstrating broad integration and consideration of environmental stewardship, technical documentation, accessibility, site conditions, life safety, environmental systems, structural systems, and building envelope systems and assemblies.

Realm D: Professional Practice.

Graduates from substantially equivalent degree program must understand business principles for the practice of architecture, including management, advocacy, and the need to act legally, ethically, and critically for the good of the client, society, and the public.

Student learning aspirations for this realm include

- Comprehending the business of architecture and construction.
- Discerning the valuable roles and key players in related disciplines.
- Understanding a professional code of ethics, as well as legal and professional responsibilities.

The substantially equivalent degree program must demonstrate that each graduate possesses skills in the following areas:

D.1 Stakeholder Roles in Architecture: *Understanding* of the relationships among key stakeholders in the design process—client, contractor, architect, user groups, local community—and the architect's role to reconcile stakeholder needs.

D.2 Project Management: *Understanding* of the methods for selecting consultants and assembling teams; identifying work plans, project schedules, and time requirements; and recommending project delivery methods.

D.3 Business Practices: *Understanding* of the basic principles of a firm's business practices, including financial management and business planning, marketing, organization, and entrepreneurship.

D.4 Legal Responsibilities: *Understanding* of the architect's responsibility to the public and the client as determined by local regulations and legal considerations involving the practice of architecture and professional service contracts.

D.5 Professional Conduct: *Understanding* of the ethical issues involved in the exercise of professional judgment in architectural design and practice and understanding the role of local rules of conduct and ethical practice.

II.1.1 NAAB Student Performance Criteria (SPC) Matrix

Part Two, Section 2 – Curricular Framework

II.2.1 National Authorization and Institutional Quality Assurance

Part Two, Section 4 – Public Information

II.4.1Statement on NAAB International Certification Degrees

II.4.2 Access to NAAB Conditions and Procedures for International Certification

II.4.3 Access to Career Development Information

II.4.4 Public Access to Program Self-Evaluation Reports and Visiting Team Reports

https://hu.edu.jo/en/facnew/dept/index.aspx?typ=309&deptid=55090000

II.4.5 Admissions and Advising (NOT Applicable):

As described in Part Two, Section 3 – Evaluation of Preparatory Education (Not Applicable): II.3.1 Student Admissions, The Hashemite University is subject to the policies, and a state-run agency handles all admissions. Therefore The Hashemite University does not handle or have any records of admissions. Further, it is not a university policy that advising records are kept. The rigidity of the curriculum makes curricular advising unnecessary.

II.4.6 Student Financial Information

Tuition fees in JDs for the Bachelor's degree in Architecture
The additional fees required for the Bachelor's degree are as follows:

Item	Regular Program (JDs)	Parallel Program (JDs)	International Program (JDs)
Admission fees (one time upon acceptance)	80.0	80.0	80.0
Non-refundable insurances (one time upon acceptance)	10.0	55.0	55.0
Placement test fees (one time upon acceptance)	15.0	15.0	15.0
Semester registration fees	30.0	135.0	135.0
Computer usage fee for each semester	10.0	35.0	35.0
Total	80.0 (upon registration) 40.0 (each semester)	320.0 (upon registration) 170.0 (each semester)	320.0 (upon registration) 170.0 (each semester)
Graduation fees	35.0	35.0	35.0

Credit hours fees for the Bachelor's degree in Architecture are as follows:

Minimum Admission Rate (High school average)	Regular Program (JDs)	Parallel Program (JDs)		International Program (JDs)
	Jordanian students with Jordanian high	Jordanian students with Jordanian high	Jordanian students who with Non-Jordanian	Non-Jordanian students

	school certificate	school certificate	high school certificate	
80%	50.0	90.0	100.0	120.0

Financial aid and Scholarships: There are various financial aids and scholarships provided by both university and external sources. Most scholarships are awarded based on academic merit, and some are also based on financial needs. The university works on the principle of equal opportunities and provides fair mechanisms for financial support to students. Applying for the grants and funding opportunities is done according to the donors' specific procedures, which ensure that the grants are given to the most in-need students and who meet the grant terms.
Additionally, the university and the Ministry of Higher Education offer student support loans for those in need. They cannot afford to cover the tuition fees at the beginning of the semester. Loans are typically offered at the beginning of the academic year or the beginning of the semesters, targeting a broad spectrum of students from all faculties and specialties.

Following is a list of donors and financial aid opportunities available for The Hashemite University students:

Fund / Scholarship	Number of university students benefiting from the scholarship	Donor
Royal fund scholarship	2807	External
Special Needs	44	The Hashemite University
University Employees	281	The Hashemite University
Arab Bank	3	External
Ministry of Higher Education / Non-Jordanians	68	Ministry of Higher Education
Arab Cultural Association	2	External
Promising Hands Association	8	External
Military Training Directorate	1	External
Royal Court Grants	140	The Hashemite University
The Jordanian Hashemite Fund for Development	18	Ministry of Higher Education
Student Support Grants (45 credit hours fees)	848	Ministry of Higher Education
Student Support Loans (45 credit hours fees)	2211	Ministry of Higher Education
Princess Mona Fund (Credit hours fees)	16	Ministry of Higher Education
First Ranked Students on the Governorate Levels	74	Ministry of Higher Education
Jordan Phosphate Mines Company	5	External
University Employees (other universities)	9	The Hashemite University
Queen Rania Award Scholarship	7	The Hashemite University
Al-Aman Fund for the Future of Orphans	50	External
Martyrs and Wounded in the Armed Forces	670	The Hashemite University
Royal Air Force Command -	5	External

Training Directorate		
Elia Nuqul Foundation Association	9	External
Employees of the Ministry of Education	1376	External
Saudi Arabia Consulate	3	External
Poverty Pockets Schools	68	Ministry of Higher Education
Petra Development and Tourism Region Authority	4	External
Embassy of Kuwait	102	External
Royal Medical Services	4	External
Top Ranked Students in the Jordanian High School Certificate	7	Ministry of Higher Education
Prince Hassan Award	1	Ministry of Higher Education
Noor Al Hussein Foundation	7	External
Central Bank of Jordan	1	External
Kuwaiti Scholarship	Number not available	The Hashemite University
Student Employment	Number not available	The Hashemite University
Student Support Fund	Number not available	The Hashemite University

Instructions for loans provided at the Hashemite University

Loans granted to the students aim to encourage them to continue their studies at the university.

- Quarterly or annual loans are paid for students registered at the Hashemite University to obtain a university degree, as the committee deems appropriate, according to the following conditions:

1. The student provides proof of his need for the fund to match the criteria set by the committee.
2. The student applicant should not be sponsored by an official entity.
3. The student does not benefit from other scholarships or funds.
4. The student is not an employee or receives a salary from any official entity.
5. The student has enrolled in the university for at least one academic semester.
6. The student has not been issued any disciplinary penalties.

- The applicant student provides a financial guarantor to sign the bills of exchange for the amount borrowed based on the guarantee and the value of the amount borrowed and determined by the committee.

- Repayment of the loan begins six months after graduation, subject to the capability of the graduate. The committee may postpone repayment for a period upon a request from the beneficiary if it is satisfied with the reasons for that.

- The borrowed amount is to be paid in monthly installments, which is determined by the committee.

The following are details about a group of grants and funding opportunities offered by the university.

Student employment: The university provides students working opportunities while enrolled in their study programs as part of its policy to support students to help them cover their study expenses, provided that it does not conflict with the times of lectures. Students subject to the conditions are distributed among the university's various departments according to their needs and in line with students' preferences and interests. Students are employed during the first and second semesters of each academic year and within the following conditions:

1. The student studies at his own expense.
2. The student has enrolled in the university for at least one academic semester.
3. The student has not been issued any disciplinary penalties.
4. The student's cumulative average is not less than 2.00 points.

Student Support Fund: The Fund receives, studies, and follows up requests for refunds of loans for needy students. Requests are applied for during the first and second academic semesters of each academic year at rates ranging from (60% to 90%) and within the following conditions:
1. The student studies at his own expense.
2. The student has enrolled in the university for at least one academic semester.
3. The student has not been issued any disciplinary penalties.
4. The student's cumulative average is not less than 2.00 points.
5. The student provides proof of his need for the fund.

The Jordan Dinar (JD) Initiative: Students are granted financial aid through the JD initiative. This is offered quarterly and within the following conditions:
1. The student is registered for the semester in which they apply to benefit from the initiative.
2. The student has not been issued any disciplinary penalties.
3. Submit a certificate of good behavior signed by the Dean of Student Affairs.
4. The student provides proof of his need for financial aid.
5. The student does not benefit from other scholarships or funds or has been financially supported by any party.
6. The student is in his second academic year or above.
7. To benefit from the amounts granted in the same semester, the student applies for the initiative.
8. Priority is given to students who have not previously benefited from financial support.

Part Three, Summary of Responses to the Team's Finding from the Last Visit

Part Three, Section 1 - Responses to Conditions Not Met

III.1.1 Information Resources

Architectural Department Library

In addition to the main HU library (see section I.2.4 Information Resources), the architectural department has created a disciplinary library within its building. It costs approx 100,000.00 JD (143,000.00 $). It is now ready for students to use. All students, faculty, and staff have convenient, equitable access to the literature, information, and online electronic library and appropriate visual and digital resources that support professional education in the field of architecture. The HU university relies on a large university system within the country to support students' research and study needs and for course preparation. Additionally, the main library can provide any articles requested from students, faculty, and staff.

Approx 1000 titles related to the discipline of architecture were transferred from the main HU library to the department library, and the rest remains at the main library. Additionally, 200 new books were purchased. The university relies on a larger university system within the country and an online electronic library to support students' research and study needs and for the course preparation. Moreover, the department will purchase new books for 12000$ next year. The new library is equipped with the latest technologies, as shown in the table below.

Description	Brand & Country of Origin	Qty
Bibliotheca RFID Workstation Shielded	Bibliotheca/Germany	1
Epson EPSON TM-T88VI	Epson	1
HONEYWELL BARCODE SCANNER 9540	Honeywell/American Brand Manufactured in China	1
Bibliotheca RFID gate premium direct mount, 1 aisle, Operating frequency: 13,56 MHz, Max. Transmitting power: 8 W	Bibliotheca/Germany	1
(SRV6KI) APC UPS On-Line SRV 6000VA 230V	APC European Brand Manufactured in China	1
Different PC for students use to access online electronic library		4

bibliotheca RFID gate premium: the most accommodating, wide aisle security gate

Offering the most accommodating aisle entrance for libraries, the RFID gate premium is perfect for wheelchairs, wide strollers, and large students. With a modern and stylish clear panel design, the bibliotheca RFID gate premium effectively deters the theft of valuable library materials while enhancing the library aesthetic.
By increasing the width of the aisles, libraries create a more welcome and inviting entrance, easy for wheelchairs and strollers to pass through. The extended aisle gate allows libraries to place gates wider apart without compromising on detection rates.
The intuitive and easy-to-use software helps libraries analyze foot traffic and triggered alarm patterns quickly and easily from a staff workstation. By providing library staff with detailed and reliable insights, they can make better data-informed decisions about their library.

bibliotheca RFID workstation shielded :desktop solutions designed to assist staff with administration activities

The workstation shielded provides staff with a fast and efficient solution to program and verify RFID tags. Library staff can now have the ability to add or remove item security without the LMS/ILS. The system can be used with multiple items of mixed media placed on the antenna at any time.

Additionally, using our staff Connec circ software, the workstationTM allows staff to perform multiple item issues, return and renew processes at the staff desk using a direct link with the LMS/ILS, including the ability to print receipts for the customer.

Voyager 9520/Voyager CG 9540 :Single-Line Laser Scanners

Honeywell’s Voyager 9500 series of hand-held, single-line laser scanners scan all standard 1D bar codes aggressively. The Voyager series of hand-held, single-line bar code scanners have united form with function in becoming the industry benchmark for value and performance.

These sleek scanners feature patented automatic infrared activation and decode all standard 1D bar codes, including GS1 DataBarTM (formerly known as RSS codes).

VoyagerCG 9540 also includes patented CodeGate technology which allows the user to easily target the desired bar code and complete data transmission with the press of a single button.

PART IV: SUPPLEMENTAL INFORMATION

FACULTY RÉSUMÉS

Name: Shaher Moh'd Rababeh

Courses Taught: (Two academic years prior to current visit):

- ARCH 241: History and Theory of Architecture 1
- ARCH 341: History and Theory of Architecture 2
- ARCH 542: Graduation Project (1)
- ARCH 521: Graduation Project (2)

Educational Credentials:

B. Arch.,	Yarmouk University, Jordan, 1987.
Ms. Arch.,	University of Oxford, UK, 2002.
Ph.D.,	University of Oxford, UK, 2005.

Teaching Experience:

- Teaching Assistant — University of Jordan, Jordan, 1995- 1996.
  Assistant Professor — Queen Rania Institute of Tourism and Heritage, The Hashemite University, Jordan, 2005-2006.
- Associate Professor — Architectural Department, The Hashemite University, Jordan, 2006-present.

Professional Experience:

- Architect, Director of Al-Madineh Engineering Office (Owner), Irbid, Jordan, 1987 – 2000.
- Building arbitrator in the Government Courts of Jordan, 1992-2000.
- Chairman of Architectural Department, Engineering Faculty, the Hashemite University, Jordan, 2006-2011.
- Head of Department of Engineering Projects. The Hashemite University, Jordan, 2006-2011.
- Vice Dean, Faculty of Engineering. The Hashemite University, Jordan, 2011-2012.
- Dean, Faculty of Engineering. The Hashemite University, Jordan, 2012- 2016
- Vice President, the Hashemite University, Jordan, 2016-2020.

Published Book:

Rababeh, S. HOW PETRA WAS BUILT: An Analysis of the Construction Techniques of the Nabataean Freestanding Buildings and Rock-cut Monuments in Petra, Jordan. 2005 (Oxford) ISBN: 1-84171-898-x.

Selected Publications and Recent Research:

Rababeh, S., and Al Rabady, R. 2016. Stone Architecture: Stone Dressing in Petra, Jordan. In: Further Studies in the History of Construction: The Proceedings of the Third Annual Conference of the Construction History Society. Cambridge: Queens' College Cambridge, 8-10 April 2016.

Rababeh, S. 2011"The Temples of Zeus and Artemis and Their Relation to the Urban Context of Gerasa", ARAM 23, 177-189, doi 102143/ARAM.23.0.2959656.

Abu Khafajeh, S. and Rababeh, S 2012. "The Silence of Meanings in Conventional Approaches to Cultural Heritage in Jordan: The Exclusion of Contexts and the Marginalisation of the Intangible," in Safeguarding Intangible Cultural Heritage Pp. 71-83.

Rababeh, S. 2010 "Construction Techniques of the Great Temple: How the Great Temple was built." In the Great Temple, Vol. III.

Rababeh, S.; Al Rabady, R.; Abu-Khafajah, S.2014. "Colonnaded Streets within the Roman Cityscape: A 'Spatial' Perspective," in the Journal of Architecture and Urbanism. Vol. 38 (4): 293-305.

Professional Memberships:

Jordanian Engineering Association 1987-present

Name: Shatha Abu-Khafajah

- Courses Taught: (Two academic years prior to current visit):
- ARCH 342: Islamic Architecture
- ARCH 465: Conservation of Architectural Heritage
- ARCH 321: Architectural Design 3
- ARCH 322: Architectural Design 4
- ARCH 563: Landscape Design
- ARCH 542: Graduation Project (1)
- ARCH 521: Graduation Project (2)

Educational Credentials:

- B. Arch., University of Jordan, Jordan, 1997
- M.A. University of Jordan, Jordan, 2000
- Ph.D., Newcastle University, UK, 2007

Teaching Experience:

- Lecturer Hashemite University, Jordan, 2000-2003
- Assistant Professor The Hashemite University, Jordan, 2007-2015
- Associate Professor The Hashemite University, Jordan, 2015-Present

Professional Experience:

- Architect and designer, Zabalawi and Makawi office, Amman, Jordan, 1997-1999.
- Architect and conservator, University of Jordan, Yajuz Excavation team, Jordan, seasons of 1998-2000
- Library Assistant at the American Center of Oriental Research, Jordan, 1999-2000
- Heritage Consultant in Turath Architecture Company, Wadi Musa development Project, 2013
- Heritage and Conservation Consultant in Edge Architecture Company, Jerash, 2019
- Chairman of Architectural Department, Engineering Faculty, the Hashemite University, Jordan, 2016-2017

Selected Publications and Recent Research:

Badran, A., Abu-Khafajah, S., Elliott, S. (2020) Community Heritage in the Arab World: Value and Practices. London: Springer.

Abu-Khafajah, S. (2017) Engaging Heritage, Engaging Communities: An Interview. In Onciul, Bryony; Stefano, Michelle, L. and Hawke, Stephanie (eds.) Engaging Heritage, Engaging Communities. 113-118. Boydell and Brewer: London

Abu-Khafajah, S., Al Rabady, R., Rababeh, S., Al Tamony, F. (2015). Hands-On Heritage! Establishing Soft Authority over Heritage through Architectural Experiment: A Case Study from Jordan. Public Archaeology 14 (3), 191-213.

Abu-Khafajah, S., Al Rabady, R., Rababeh, S., (2015) Urban heritage 'space' under neoliberal development: A tale of a Jordanian Plaza. International Journal of Heritage Studies 21(5), 441-459.

Abu-Khafajah, S.; Al Rabady, R. (2013) The 'Jordanian' Roman Complex: Reinventing Urban Landscape to Accommodate Globalization. Near Eastern Archaeology 76 (3):186-192.

Professional Memberships:

Jordanian Engineering Association 1997-present

Name: Rama Ibrahim Al Rabady

Courses Taught: (Two academic years prior to current visit):

- ARCH 321: Architectural Design 3
- ARCH 343: Theory of Modern Architecture
- ARCH 456: Conservation of Architectural Heritage
- ARCH 542: Graduation Project (1)
- ARCH 521: Graduation Project (2)

Educational Credentials:

- B. Arch., Jordan University of Science and Technology, Jordan, 1994
- Ms. Arch., University of Jordan, Jordan, 2002
- Ph.D., Texas A&M University, College Station, TX, USA, 2006

Teaching Experience:

- Assistant Professor Sultan University, Saudi Arabia, 2010- 2011.
- Assistant Professor The Hashemite University, Jordan, 2007-2011.
- Associate Professor The Hashemite University, Jordan, 2014-present.

Professional Experience:

- Architect, designer, Irbid, Jordan, 1994-1997.
- Architect: designer, Amman, Jordan, 1997-2003.
- Chairman of Architectural Department, Engineering Faculty, the Hashemite University, Jordan, 2011-2015

Selected Publications and Recent Research:

Rababeh, S., and Al Rabady, R. 2016. Stone Architecture: Stone Dressing in Petra, Jordan. In: Further Studies in the History of Construction: The Proceedings of the Third Annual Conference of the Construction History Society. Cambridge: Queens' College Cambridge, 8-10 April 2016.

Al Rabady, R. Abu Khafajah, S. 2015. 'Send in the Clown': Re-inventing Jordan's Downtowns in Space and Time, Case of Amman. Urban Design International, Vol. 20:1-11.

Abu-Khafajah, S.; Al Rabady, R.; Rababeh, S. 2015. "Urban heritage 'space' Under Neoliberal Development: a Tale of a Jordanian Plaza," in International Journal of Heritage Studies, Vol. 21 (5), pages 441-459.

Al Rabady, R.; Rababeh, S.; Abu-Khafajah, S. 2014. "Urban Heritage Governance within the Context of Emerging Decentralization Discourses in Jordan," in HabitatInternational, Vol. 42: 253-263.

Rababeh, S.; Al Rabady, R.; Abu-Khafajah, S.2014. "Colonnaded Streets within the Roman Cityscape: A 'Spatial' Perspective," in the Journal of Architecture and Urbanism. Vol. 38 (4): 293-305.

Professional Memberships:

Jordanian Engineering Association 1994-present

Name: Ahmad AlHusban

Courses Taught: (Two academic years prior to current visit):

- ARCH 345: Theory and Methods of Architectural Design
- ARCH 423: Working Drawing
- ARCH 421: Architectural Design 5
- ARCH 422: Architectural Design 6
- ARCH 451: Specification and Contracts
- ARCH 542: Graduation Project (1)
- ARCH 542: Quantity Surveying
- ARCH 521: Graduation Project (2)
- ARCH 551: Professional Practice

Educational Credentials:

- B. Arch., Jordan University of Science and Technology, Jordan, 1994
- Ms. Arch., Jordan University of Science and Technology, Jordan, 2007
- Ph.D., Washington State University, USA, 2012

Teaching Experience:

- Lecturer Al al Bayt University, Jordan, 2003-2009.
- Assistant Professor The Hashemite University, Jordan, 2012-present

Professional Experience:

- Architect, designer, and consultant, Engineer Mohammed Awidat Office, Mafraq, Jordan, 1994-1995.
- Architect: designer and consultant, EMCO Engineering Consultants, RAK, UAE, 1995-1998.
- Outside Plant Engineer Senior Supervisor/Project Manager, Lucent Technologies Inc. (UAE Branch), UAE (Lead Engineer, OSP manager), 1998-2003
- Design and supervision of Al Al-Bayt University Eastern Gate, 2007-2009
- Assistant Dean for Industrial Outreach and training, Engineering Faculty, the Hashemite University, Jordan, 2015-2016
- Assistant Dean for Allied Engineering Sciences, Engineering Faculty, the Hashemite University, Jordan, 2016-2017
- Chairman of Architectural Department, Engineering Faculty, the Hashemite University, Jordan, 2017-present

Selected Publications and Recent Research:

Abell, J., Alhusban, A., Alhusban, S., & Lurasi, S. (2013). Habitat, housing social connectivity to promote social well-being. Design & Nature and Ecodynamics, 8(4), 356-371. DOI: 10.2495/DNE-V8-N4-356-371.

Al Husban, S. A., Al Husban, A. A., & Al Betawi, Y. (2018). The impact of the cultural beliefs on forming and designing spatial organizations, space hierarchy, and privacy of detached houses and apartments in Jordan. Space and Culture, (), -. https://doi.org/10.1177/1206331218791934.

Al Husban, A. A., Al Husban, S. A., & Al Betawi, Y. (2016). Implementing the Competences-Based Students-Center Learning Approach in Architectural Design Education Based on the T MEDA Pilot Architectural Program that Implemented at the Hashemite University, Jordan. Tuning Journal for Higher Education, 4(1), 43-98. DOI: http://dx.doi.org/10.18543/tjhe-4(1)-2016pp43-98.

Al Husban, A. A., Al Husban, S. A., & Al Betawi, Y. (2019). The degree of the Hashemite university students' desires, needs, and satisfaction with their campus urban design. Journal of Place Management and Development, https://doi.org/10.1108/JPMD-08-2018-0062

Professional Memberships:

Jordanian Engineering Association 1994-present

Name: Yamen Al-Betawi

Courses Taught: (Two academic years prior to current visit):

- ARCH 221: Architecture Design 1
- ARCH 222: Architecture Design 2
- ARCH 321: Architectural Design 3
- ARCH 322: Architectural Design 4
- ARCH 343: Theories of Modern Architecture
- ARCH 423: Working Drawings
- ARCH 463: Urban Planning & Design
- ARCH 465: Housing
- ARCH 542: Graduation Project (1)
- ARCH 521: Graduation Project (2)

Educational Credentials:

- B. Arch., Jordan University of Science and Technology, Jordan, 2001
- Ms. Arch., Jordan University of Science and Technology, Jordan, 2004
- Ph.D., Cardiff University, UK, 2013

Teaching Experience:

- Teaching Assistant Jordan University of Science & Technology, Jordan, 2003.
- Part-time Lecturer Jordan University of Science & Technology, Jordan, 2005.
- Assistant Professor The Hashemite University, Jordan, 2013-present

Professional Experience:

- Chief of the Technical Committee for the Hashemite University Employees' Housing project. The Hashemite University, Zarqa, Jordan, 2019
- Architect & Urban Planner. Amman Institute for Urban Development, Amman, Jordan, 2009
- Architect. Bitar Consultants Architects, Engineers, and Project Managers, Amman, Jordan, 2004-2009.
- Short Term Consultant. Transport & Urban Development Department - The World Bank, Amman, Jordan, 2004.
- Architect. Jadarah Consultant Engineers, Irbid, Jordan, 2002-2004

Selected Publications and Recent Research:

Hikmat H. Ali, Yamen N. Al-Betawi & Hadeel S. Al-Qudah. (2019). Effects of urban form on social sustainability - A case study of Irbid, Jordan. International Journal of Urban Sustainable Development, https://www.tandfonline.com/doi/full/10.1080/19463138.2019.1590367

Al Husban, A. A., Al Husban, S. A., & Al-Betawi, Y. (2019). The degree of the Hashemite university students' desires, needs, and satisfaction with their campus urban design. Journal of Place Management and Development, https://doi.org/10.1108/JPMD-08-2018-0062

Al Husban, S. A., Al Husban, A. A., & Al-Betawi, Y. (2018). The impact of the cultural beliefs on forming and designing spatial organizations, space hierarchy, and privacy of detached houses and apartments in Jordan. Space and Culture, (), -. https://doi.org/10.1177/1206331218791934.

Al Husban, A. A., Al Husban, S. A., & Al-Betawi, Y. (2016). Implementing the Competences-Based Students-Center Learning Approach in Architectural Design Education Based on the T MEDA Pilot Architectural Program that Implemented at the Hashemite University, Jordan. Tuning Journal for Higher Education, 4(1), 43-98. DOI: http://dx.doi.org/10.18543/tjhe-4(1)-2016pp43-98.

Hikmat Ali, Fuad Malkawi & Yamen Al-Betawi**.** (2009). Quality of life in cities: Setting up criteria for Amman-Jordan. Social Indicators Research, 93 (2): 407-432.

Professional Memberships:

Jordanian Engineering Association 2001-present

Name: Ahlam Ammar Sharif

Courses Taught: (Two academic years prior to current visit):

- ARCH 471: Lighting and Acoustics
- ARCH 421: Architectural Design 5
- ARCH 563: Landscape Design
- ARCH 751: Advanced Studies in Housing

Educational Credentials:

- BSc. Arch., University of Jordan, Jordan, 2005
- MA. Arch., University of Manchester, UK, 2012
- Ph.D., University of Manchester, UK, 2016

Teaching Experience:

- Assistant Professor Dar Al Hekma University, KSA, 2016-2017.
- Assistant Professor Philadelphia University, Jordan, 2017-2020
- Assistant Professor The Hashemite University, Jordan, 2020-present

Professional Experience:

- Project manager – Master planning, Saudi real estate company, Riyadh, KSA, 2010-2011.
- Project manager – Architecture and interior design, Architectural and contracting company, Riyadh, KSA, 2006-2010.
- Trainee architect/ interior designer, Interior Design Stufio (IDS), Amman, Jordan, 2005.
- Trainee designer, Al Dar Al Arabiyya, Amman, Jordan, 2004.

Selected Publications and Recent Research:

Sharif A.A., 2020. User Activities and the Heterogeneity of Urban Space: The Case of Dahiyat Al Hussein Park. Frontiers of Architectural Research.

Sharif A.A., 2020. Users as Co-designers: Visual-spatial Experiences at Whitworth Art Gallery. Frontiers of Architectural Research, vol. 9, no. 1, pp. 106-118 [https://www.sciencedirect.com/science/article/pii/S2095263519300275].

Sharif A.A., 2019. Transfer Ethnography: The Recording of a Heritage Building. Archnet-IJAR: International Journal of Architectural Research, vol. 14, no. 2, pp. 289-302.

Sharif A.A., 2018. Ethnography of Transfer: Exploring the Dynamism of Sustainable Architectural Design in Masdar. BOTTEGA: Ecology of Design Practice, no. 2.

Sharif A.A. and Yoshii Y., 2017. Narrow Passages in an Eastern Context: Live-able Spaces or Leftovers? The International Journal of the Constructed Environment, vol. 8, no. 3, pp. 27-37.

Sharif A.A., 2016. Sustainable Architecture, Interactions and Mutual Relations: The Case of Residential Building Facades. Journal of Sustainable Building Technology and Urban Development, vol. 7, no. 3, pp. 146 - 152 [http://www.tandfonline.com/doi/abs/10.1080/2093761X.2016.1237395].

Sharif A.A., 2018. The Transferability of Sustainable Design Concepts, Eco-cities in Focus. In Bamme A., Getzinger G. and Wieser B. (eds), Yearbook 2015 of the Institute for Advanced Studies on Science, Technology and Society.

Sharif A.A., 2014. Rethinking Sustainable Architecture: Beyond the Technological Approach, in Khan A. (Ed.), Architecture and sustainability: Critical perspectives. Brussels: LUCA Press.

Professional Memberships:

Jordanian Engineering Association 2005-present.
Member of Jordan Green Building Council.

Name: Siba Adel Awawdeh

Courses Taught:
ARCH 221: Architectural Design 1
ARCH 222: Architectural Design 2
ARCH 232: Building Materials
ARCH 335: Structural Systems
ARCH 336: Building's Finishings
ARCH 423: Working Drawings
ARCH 424: Interior Design
ARCH 472: Desert Habitation
ARCH 473: Energy and Architecture
ARCH 571: Green Buildings
ARCH 541: Human Behaviour in Architecture
ARCH 542: Graduation Project (1)
ARCH 521: Graduation Project (2)
ARCH 730: Sustainable Design in Built Environment
ARCH 772: Special Topics
ARCH 731: Building Technology and Advanced Structural Systems

Educational Credentials:
- B. Arch., University of Jordan, Jordan, 2016
- PhD. Arch., Queens' University Belfast, UK, 2010

Teaching Experience:
- Assistant Professor The Hashemite University, Jordan, 2010-present

Professional Experience:
- Senior Architect: Cassia Consulting Engineers, Abu Dhabi, UAE, 1996 - 2004
- Chief Architect: Adderah Consultants Office, Abu Dhabi, UAE, 1989-1994.
- Interior Designer: Ritaj Interiors Office, Abu Dhabi, UAE, 1988-1989.
- Architect: Simadi & Rababa Office, Irbid, Jordan, 1987

Professional Memberships:
Jordanian Engineering Association 2016 -present

Name: Umaima Al Aqtash

Courses Taught: (Two academic years prior to current visit):

- ARCH 321: Architectural Design 3
- ARCH 322: Architectural Design 4
- ARCH 336: Building Finishing
- ARCH 423: Working Drawing
- ARCH 542: Graduation Project (1)
- ARCH452: Quantity Surveying
- ARCH 521: Graduation Project (2)
- ARCH 551: Professional Practice

Educational Credentials:

- B. Arch., Jordan University of Science and Technology, Jordan, 2000
- Ms. CE., New Mexico State University, USA, 2008
- Ph.D., New Mexico State University, USA, 2014

Teaching Experience:

- Assistant Professor The Hashemite University, Jordan, 2015-present

Professional Experience:

- Engineer in Training, Irbid Municipality, Jordan, 2000–2001
- Architectural Designer, Palm Real Estate Company, Amman, Jordan, 2002–2005.

Selected Publications and Recent Research:

- Al Aqtash, U., Bandini, P., and Cooper, S. L. (2017). A numerical approach to model the effect of moisture in adobe masonry walls subjected to in-plane loading. *International Journal of Architectural Heritage*, 11(6), 805-815. DOI: 10.1080/15583058.2017.1298010

Al Aqtash, U., Bandini, P., and Cooper, S. (2017). Effect of moisture on the out-of-plane lateral strength of residential adobe masonry walls. Proc., *Earth USA 2017, 9th Inter. Conf. on Architecture and Construction with Earthen Materials*, Santa Fe, New Mexico, September 29-October 1.

Al Aqtash, U., and Bandini, P. (2015). Prediction of unsaturated shear strength of an adobe soil from the soil-water characteristic curve. *Construction and Building Materials*, 98, 892–899. DOI: 10.1016/j.conbuildmat.2015.07

Wosick, E., Gebremariam, T., Weldon, B., Bandini, P., and Al-Aqtash, U. (2014). Strength characteristics of typical adobe material in the southwestern United States, *9th International Masonry Conference*, Guimarães, Portugal, July 7-9.

Al Aqtash, U., and Bandini, P. Prediction of Unsaturated Shear Strength of an Adobe Soil from the Soil-Water Characteristic Curve. Geo-Poster Student Competition, 2014 Geo-Congress, Atlanta, GA. Poster presentation.

Professional Memberships:

Jordanian Engineering Association 2000-present
American Society of Civil Engineers (ASCE) and the Geo-Institute of ASCE

Name: “Fadael Al-Rahman” Mahmoud Al-Tammoni

Courses Taught: (Two academic years prior to current visit):

- ARCH 121: Basic Design 1
- ARCH 111: Free Hand Drawing
- ARCH 102: Computer Applications In Architectural Design 1
- ARCH 122: Basic Design 2
- ARCH 112: Architectural Communication and Presentation 1
- ARCH 332: Building Materials
- ARCH 336: Building Finishing
- ARCH 542: Graduation Project (1)
- ARCH 521: Graduation Project (2)

Educational Credentials:

- B. Arch., Jordan University of Science and Technology, Jordan, 1997
- Ms. Arch. Jordan University of Science and Technology, Jordan, 2001

Teaching Experience:

Lecturer	Sep 2003 – Jan2007, Jordan University of Science and Technology / Department at Architecture. & Al-al-Bayt University,
Lecturer	Institute of Architecture and Islamic Arts. Feb 2007- present, Hashemite University / Faculty of Engineering / Department of Architectural Engineering.

Professional Experience:

Summer 1996: **June – Sep 1996**, designer at Omar Shatat Architect Office.

Selected Publications and Recent Research:

Hands-On Heritage! Establishing Soft Authority over Heritage through Architectural Experiment: A Case Study from Jordan, Shatha Abu-Khafajah, Rama Al Rabady, Shaher Rababeh & Fadael Al-Rahman Al-Tammoni .Public Archaeology, 14:3,191-213, DOI: 10.1080/14655187.2016.1191924.ISSN:1465-5187 (print) 1753-5530(online) Journal Homepage: http://www.tandfonline.com/loi/ypua20To link to this article: http://dx.doi.org/10.1080/14655187.2016.1191924

Professional Memberships:

Jordanian Engineering Association 1997-present

Name: Ebtesam Khassawneh

Courses Taught: (Two academic years prior to current visit):

- ARCH 121: Basic Design (1)
- ARCH 122: Basic Design (2)
- ARCH 336: Building Finishing
- ARCH 421: Architectural Design 5
- ARCH 422: Architectural Design 6
- ARCH 465: Housing
- ARCH 542: Graduation Project (1)
- ARCH 521: Graduation Project (2)
- ARCG 541:Human Behavior In Architecture

Educational Credentials:

- B. Arch., Jordan University of Science and Technology, Jordan, 2000
- Ms. Arch., Jordan University of Science and Technology, Jordan, 2011

Teaching Experience:

- Lecturer The Hashemite University, Jordan, 2012-2013
- Assistant Tutor The Hashemite University, Jordan, 2013-present.

Professional Experience:

- An architect and urban planner, Al taibah Al jadidah Municipality, 2002-2012.
- Chairman of comprehensive plan, Al taibah Al jadidah Municipality, 2010-2011
- Site Engineer, Hussein Miqdadi & partner company, 2000-2002

Professional Memberships:

Jordanian Engineering Association 1994-present

Name: Lina Shqra

Courses Taught: (Two academic years prior to current visit):

- ARCH 111: Free Hand Drawing
- ARCH 112: Architectural Communication and Presentation (1)
- ARCH 112: Architectural Communication and Presentation (2)
- ARCH 421: Architectural Design (5)
- ARCH 422: Architectural Design (6)
- ARCH 542: Graduation Project (1)
- ARCH 521: Graduation Project (2)

Educational Credentials:

- B. Arch., Jordan University of Science and Technology, Jordan, 2012
- Ms. Arch., Jordan University of Science and Technology, Jordan, 2016

Teaching Experience:

- Lecturer The Hashemite University, Jordan, 2017-present

Professional Experience:

- Architectural Designer, Historical Gate, and Traditional Market Located in a Heritage Village, UAE – Al Fujairah, Under the Supervision of Prof. Dr. Natheer Abu Obeid (German Jordanian University), 2012-2013
- Architectural Designer, Engineer Ahmad Khanfar Office AK, Zarqa, Jordan, 2012
- Architectural Designer, International Gathering for Engineering Consultancies GEC, Amman, Jordan, 2012-2013.
- Architectural Designer, Bitar Consultants, Architects, Engineers and Project Managers, Amman, Jordan, 2013-2014
- Research Assistant, Supervised by Dr. Ahmed Freewan (Jordan University of Science and Technology), European Union SRTD-II Program, Sustainable Technologies in Buildings, 2015-2016.

Selected Publications and Recent Research:

Freewan, A., Shqra, L. (2018). Analysis of energy and daylight performance of adjustable shading devices in the region with hot summer and cold winter. Advances in Energy Research, 5(4), 289-304. DOI: http://doi.org/10.12989/eri.2017.5.4.289

Professional Memberships:

Jordanian Engineering Association 2012-present

Name: Rabab Muhsen

Courses Taught: (Two academic years prior to current visit):

- ARCH 102: Computer Applications in Architectural Design (1)
- ARCH 241: History and Theory of Architecture (1)
- ARCH 335: Building Construction Systems
- ARCH 421: Architectural Design 5
- ARCH 422: Architectural Design 6
- ARCH 423: Working Drawing
- ARCH 563: Landscape
- ARCH 542: Graduation Project (1)
- ARCH 521: Graduation Project (2)

Educational Credentials:

- B. Arch., University of Jordan, Jordan, 2003
- Ms. Arch., University of Jordan, Jordan, 2010

Teaching Experience:

- Part-Time Lecturer University of Jordan, Jordan, 2010-2012
- Assistant Lecturer The Hashemite University, Jordan, 2013-present

Professional Experience:

- Supervision Engineer at Municipality of Great Amman, Amman, Jordan, 2003-2004.
- Architect, designer, and consultant, Abbadi & Anani Consulting Engineers, Amman, Jordan, 2004-2010.
- Architect, designer, Senior Supervisor/Project Manager, Abbadi & Anani Consulting Engineers, Amman, Jordan, 2010-2012.
- Design and supervision of Kings" Academy, Extension Buildings, 2009-2010.
- Architect, designer, Senior Supervisor/Project Manager, Partner and Founder, Ahmed Ghannam Consulting Engineers, Amman, Jordan, 2012-2013.
- Assistant Lecturer of Architectural Department, Engineering Faculty, the Hashemite University, Jordan, 2013-present.

Professional Memberships:

Jordanian Engineering Association 2003-present

Name: Haneen AlKhamaiseh

Courses Taught: (Two academic years prior to current visit):

- ARCH 101: Architectural Drawing
- ARCH 102: Computer Applications In Architectural Design 1
- ARCH 112: Architectural Communication and Presentation 1
- ARCH 122: Basic Design 2
- ARCH 201: Computer Applications In Architectural Design 2
- ARCH471: Lighting and Acoustics
- ARCH 563: Landscape Design

Educational Credentials:

- B. Arch., University of Jordan, Jordan, 2010
- Ms. Arch., University of Jordan, Jordan, 2015

Teaching Experience:

- Lecturer The Hashemite University, Jordan, 2015 -present

Professional Experience:

- Architect, lab supervisor, Hashemite University, Al- Zarqa`a, Jordan, 2010-2015.

Professional Memberships:

Jordanian Engineering Association 2010-present

Name: Rama Al-Majali

Courses Taught:

- ARCH 421: Architectural Design 5
- ARCH 422: Architectural Design 6
- ARCH 542: Graduation Project (1)
- ARCH 521: Graduation Project (2)
  ARCH 121: Basic Design (1)
- ARCH 102: Computer Applications In Architectural Design (1)
  ARCH 201: Computer Applications In Architectural Design (2)

Educational Credentials:

- B. Arch., University of Jordan, Jordan, 2016
- Ms. Arch., University of Jordan, Jordan, 2019

Teaching Experience:

- Teacher Assistant University of Jordan, Jordan, 2017-2019.
- Lecturer The Hashemite University, Jordan, 2019-present

Professional Experience:

- Architect trainee: Engicon Company, Jordan, 2015
- Architect trainee at Fahmi Hazeen engineering office / Design department, Jordan, 2016-2017.
- Teacher assistance at the University of Jordan, Department of Architecture, Engineering Faculty, Jordan, 2017-2019
- Lecturer of Architecture, Department of Architecture, Engineering Faculty, the Hashemite University, Jordan, 2019-present

Professional Memberships:

Jordanian Engineering Association 2016 -present

Name: Majd AlBaik

Courses Taught: (One academic years prior to current visit):

- ARCH 101: Architectural Drawing
- ARCH 111: Free Hand Drawing
- ARCH 112: Architectural Communication and Presentation (1)
- ARCH 213: Architectural Communication and Presentation (1)
- ARCH 422: Architectural Design 6
- ARCH 542: Graduation Project (1)
- ARCH 521: Graduation Project (2)

Educational Credentials:

- B. Arch., University of Jordan, Jordan, 2014
- Ms. Arch., University of Jordan, Jordan, 2018

Teaching Experienced:

- Teacher Assistant Applied Science University, Jordan, 2014-2019.
- Lecturer The Hashemite University, Jordan, 2019-present

Professional Experience:

- Architect, Trainee, Bitar Consultants, Amman, Jordan, May, 2013-Agust, 2013.

Professional Memberships:

Jordanian Engineering Association 2014-present

Name: Quasi Al-Khaldi

Courses Taught: (Two academic years prior to current visit):

- ARCH 336: Building Finishing
- ARCH 423: Working Drawing
- ARCH 335: Building Construction Systems
- ARCH 221: Architectural Design 1
- ARCH 222: Architectural Design 2
- ARCH 542: Graduation Project 1
- ARCH 521: Graduation Project 2

Educational Credentials:

- B. Arch., Al-Albayt University, Jordan, 2014
- Ms. Arch., University of Alberta, Canada, 2018

Teaching Experience:

- Teacher Assistant University of Alberta, Canada, 2015-2018.
- Assistant Tutor The Hashemite University, Jordan, 2019-present

Professional Experience:

- Architect, designer, Azmi Shawaqfa office, Al-Mafraq, Jordan, 2013-2014.
- Architect: designer and consultant, Al-AQOAL GROUP- Al-Mafraq, Jordan, 2014-2015.
- Research assistant, University of Alberta, Edmonton, Canada, 2015-2018
- Landscape Coordinator, Royal Construction Group Ltd, Edmonton, Alberta, Canada 2018-2019
- Assistant Tutor, Department of Architectural Engineering, Faculty of Engineering, the Hashemite University, Jordan, 2019-Present

Selected Publications and Recent Research:

Professional Memberships:

Jordanian Engineering Association 2014-present

Name: Dania H. Al-Harasis

Courses Taught: (Two academic years prior to current visit):

- ARCH 101: Architectural Drawing
- ARCH 121: Basic Design (1)
- ARCH 111: Free Hand Drawing
- ARCH 102: Computer Appliccations In Architectural Design (1)
- ARCH 122: Basic Design (2)
- ARCH 213: Architectural Communications and presentation (2)
- ARCH 542: Graduation Project (1)
- ARCH 521: Graduation Project (2)

Educational Credentials:

- B. Arch., University of Jordan, Jordan, 2017
- Ms. Arch., University of Jordan, Jordan, 2019

Teaching Experience:

- Teacher Assistant University of Jordan, Jordan, 2018-2019.
- Full time Lecturer The Hashemite University, Jordan, 2019-Present

Professional Experience:

- Trainee Architect, Panorama Consultants Engineering. Co. IL, Amman, Jordan, 2016.
- Trainee Architect, Farah Architects, Amman, Jordan, 2019.

Selected Publications and Recent Research:

Al-Harasis, D., Abu Omar, Z. & Amireh, O. (2019). Function Follows Phototropism: Understanding lights as a component of urban infrastructure. 7th Annual International Conference on Architecture and Civil Engineering (ACE 2019), 326-330. DOI: 10.5176/2301-394X_ACE19.541.

Amireh, O., Al-Harasis, D., & Abu Omar, Z. (2019). Nomads' Quality of Life; Sustainability, in the Built Environment. 7th Annual International Conference on Architecture and Civil Engineering (ACE 2019), 319-325. DOI: 10.5176/2301-394X_ACE19.351 .

Professional Memberships:

Jordanian Engineering Association 2017-Present

Name: Tahani Alkailani

Courses Taught: (Two academic years prior to current visit):

- ARCH 336: Building Finishing
- ARCH 463: Urban Design and Planning
- ARCH 465: Housing
- ARCH 101: Architectural Drawing
- ARCH 341: History and Theory of Architecture(2)
- ARCH 335: Building Construction Systems
- ARCH 542: Graduation Project (1)
- ARCH 563: Landscape Design
- ARCH 232: Building Materials
- ARCH 521: Graduation Project (2)

Educational Credentials:

- BA. Arch., The University of Jordan, Jordan, 1994
- Ms. Arch., Jordan University of Science and Technology, Jordan, 2014

Teaching Experience:

- Teacher Assistant Jordan University of Science and Technology (JUST) 2012 – 2013

Professional Experience:

- Architect, designer: Saud Al Tamimi Office,1995-1996
- Architect, designer: Arab Gathering Office \ Engineers Consultants,1996-1997
- Architect, designer: Engineering Dome Office,1997-1998
- Architect, designer, and consultant: Madaba Engineering Office,1998-2012
- Architect, designer, and consultant: Al-Hakim Engineering Center,2013-2014

Selected Publications and Recent Research:

Construction and demolition waste management assessment in Amman / JUST catalog/ Accession Number: JUST.6195132-2014

Professional Memberships:

Jordanian Engineering Association 1994-present

Name: Shereen AL Yousef

Courses Taught: (Two academic years prior to current visit):

- ARCH 421: Architectural Design 5
- ARCH 422: Architectural Design 6
- ARCH 452: Graduation Project (1)
- ARCH 521: Graduation Project (2)
- ARCH 101: Architectural Drawing
- ARCH 121: Basic Design 1
- ARCH 122: Basic Design 2

Educational Credentials:

- B. Arch., Al Al-Bayt University, Jordan, 2006

Teaching Experience:

- Lab Supervisor The Hashemite University, Jordan, 2007-present

Professional Experience:
Lab Supervisor and teaching assistant, The Hashemite University, Jordan, 2007-present

Selected Publications and Recent Research:

Professional Memberships:
Jordanian Engineering Association 2006-present

Name: Hanin Othman

Courses Taught: Lab Supervisor in different courses, especially Architecture Design Studio

- ARCH 423: Working Drawing
- ARCH 419: Architectural Design 3
- ARCH 420: Architectural Design 4
- ARCH 452: Graduation Project (1)
- ARCH 521: Graduation Project (2)

Educational Credentials:

- B. Arch., The Hashemite University, Jordan, 2013.

Teaching Experience:

- Teaching Assistant The Hashemite University, Jordan, 2014 – 2019

Professional Experience:

- Architect, designer, Ruba Housah For Engineering Co, Amman, Jordan, 2013.

Professional Memberships:

Jordanian Engineering Association 2013 -present

Faculty credentials matrices (see p. 8); see the sample matrix in Appendix 3 of these Conditions.

Plans or Images of Physical Resources Assigned to the Program

HU Campus and Architecture Department

HU Gate

Architecture Department

Architectural Department Main Court

Lecture Halls Entrance

Student Center (ZINC

Students Community

Solar Farm

Students Community

Students Community

Architecture Department Facilities

Main theatre

Architectural library


Main hall activity


Main hall activity


Student Center (ZINC)

Student Center (ZINC)

Double volume between design Studios

Main Entrance Lobby


Design Studios

5 Computers Labs.

Interactive Pen Display Lab.


Open Studio


Lecture Halls

Carpentry Workshop

Plumbing Workshop

Smithy Workshop

Turning Workshop

Survey Lab.

Construction Lab.

Administration and Staff Facilities

Chairman Office

Professor Office

Lecturer Office

Meeting Room 2

Meeting Room 1

Department Offices

Lab Supervisor Offices

Secretary Office

Faculty Waiting and Rest Area

HU Prizes

The Order of Independence of First Class (Grand Cordon) 2016

El Hassan bin Talal Award for Scientific Excellence 2015/2018

Emirates Energy Award EEA (GOLD) 2017

Appendix: Course Descriptions

Appendix B: Timeline for Achieving NAAB International Certification
(for inclusion in the Institutional Overview for SE visit one)

This sample timeline shows a very compressed, aggressive schedule for achieving NAAB International Certification. There is a three- or four-month (and sometimes more) lag time between the end of each visit and the Board of Directors' action on the next step. Each program should determine its own timeline based on its resources and readiness, and keeping in mind the time limits on scheduling visits prescribed in the SE Procedures.

The architectural program at HU determines this timeline based on its resources and readiness.

Dates	Events	Fees
May 2019	Submit application and Institutional Overview for a visit one: (eligibility) to NAAB. Determination of eligibility by NAAB. The Institutional Overview must be received by the NAAB 120 days before visit 1.	
18 July 2019	Visit One—Eligibility: The application documents were reviewed and accepted. Additionally, a team of two NAAB representatives conducted a two-day visit to the program (Prof Cornelius "Kin" DuBois and Prof Michael Buono). The purpose of the visit was to review the NAAB Conditions and Procedures, confirm the program's commitment to the SE process, and see the physical arrangements for the program and any visiting team. The Visit One was conducted at the beginning of November 2019.	Visit fee ($8400) plus all expenses for the NAAB team (2 people).
March/April 2020	NAAB Board of Directors approved for visit two.	
August 2020	Assuming board approval of advancement to visit two, the Program Self-Evaluation Report for a visit two must be received by the NAAB 120 days before the visit.	
Nov 2020	Visit Two—Candidacy: Four-day visit by a team of two (one educator, one practitioner).	Visit fee ($8400) plus all expenses for the NAAB team (2 people).
Spring 2021	The decision by NAAB Board of Directors on advancement to visit three.	
June/July 2021	Program Self-Evaluation Report for a visit 3 due to the NAAB office.	
Oct/Nov 2021	Visit Three—NAAB International Certification: Four-day visit by a team of four people	Visit fee ($8400) plus all expenses for NAAB team (4 people)
Dec. 2021/Jan. 2022	NAAB processes report	
Spring 2022	Board of Directors reviews the Visiting Team Report from visit three and votes on whether to grant International Certification to the program. International Certification terms begin on January 1 of the year in which visit three occurred. The terms are for six years.	Annual SE fee ($5300) until the next visit cycle to renew NAAB International Certification