



Umm Al-Qura University
College of Engineering & Islamic Architecture
Department of Islamic Architecture

جامعة أم القرى
كلية الهندسة والعمارة الإسلامية
قسم العمارة الإسلامية

Facilities and Equipment

Department of Islamic Architecture

(UQU-14)



التجهيزات الفنية والمرافق بقسم العمارة الإسلامية

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Prince Khalid Al-Faisal Research Chair for upgrading Informal Areas

Chair Vision

Chair Mission

Introduction

To meet the needs of teaching and learning in the programme, adequate facilities and equipment should be provided. The DIA programme requires a durable laboratory support.

The objective of such support is to accomplish various labs and problem sessions as required by some courses. It is also to offer opportunities to students to explore various design ideas and to have hands-on experience at their convenience. Furthermore to the labs available within the college and the university that are shared by different departments, the DIA has its own labs that are self-managed and utilised.

Maintenance of these labs takes place either through in-house support staff or ITC specialists. The department ensures that the number of computers and their supporting equipment is more than the maximum number of students enrolled in a course that requires lab sessions.

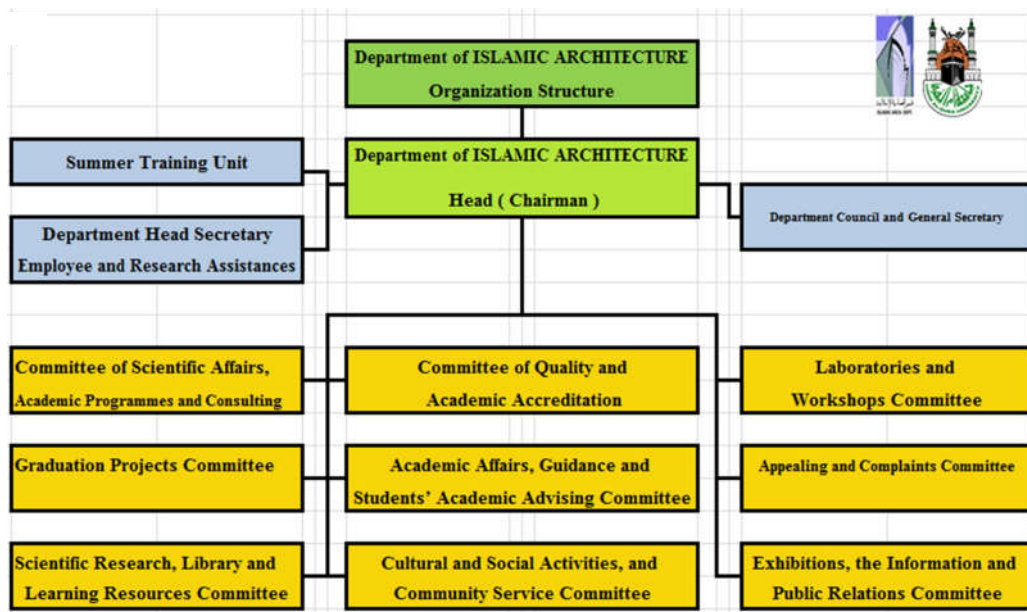


Figure 4.1, Organisational Structure for DIA

Umm al-Qura University, as all Saudi universities, is funded by the Ministry of Education and assigned an annual budget based on its strategic plans and development. The annual funding is approved each year by the Supreme Council of Universities.

Faculty members of Department of Islamic Architecture (DIA)

The faculty member is the key element in the learning process. The structure of the faculty members in the DIA is based on five categories; Professor, Associate Professor, Assistant Professor, Lecturer, and Teaching Assistant.

The following Table 4.1, shows the distribution of the faculty member in the DIA in functional framework.

Table 4.1, the Distribution of the Faculty Member in the DIA

Occupation	Number	Saudi	Non-Saudi
Professor	10	1	9
Associate Professor	8	6	2
Assistant Professor	13	9	4
Lecturer	3	3	-
Teaching Assistant	20	20	-

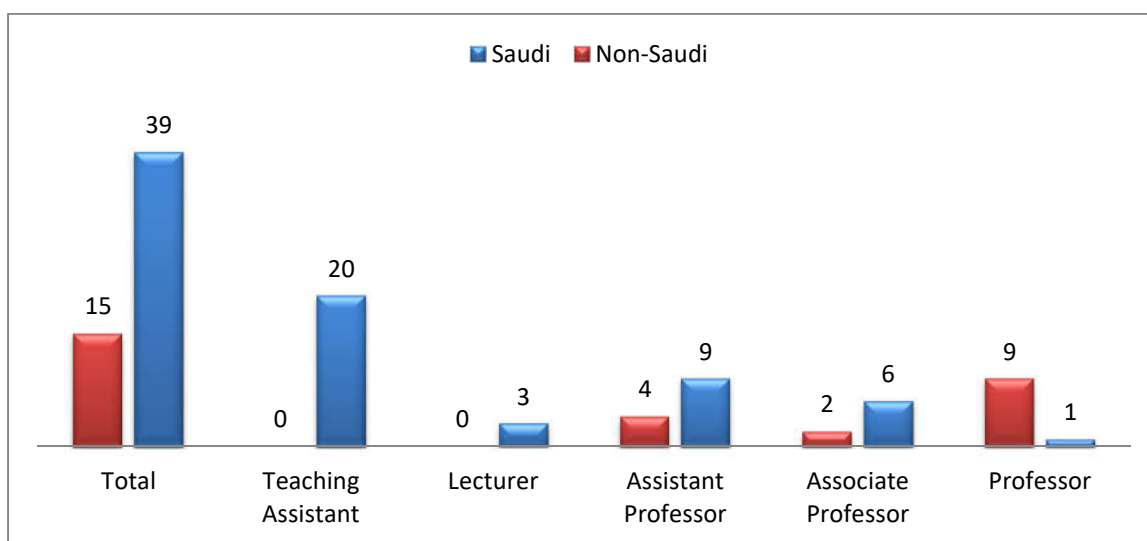


Figure 4.2, Illustrates the Percentage of Saudi to non-Saudis Faculty Members

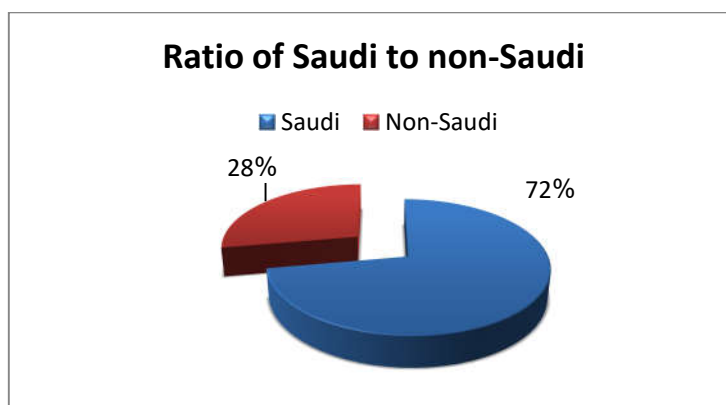


Figure 4.3, Illustrate the Ratio of Saudi to non-Saudi

Table 4.2, Requirements to Cover Study Plan 37

Statement	Faculty member's					Administrators	Technicians
	Teaching Assistant	Lecturer	Assistant Professor	Associate Professor	Professor		
Available	23	3	15	8	10	2	4
Required	30	15	25	15	10	5	12






Table 4.3, List of Faculty Members at DIA

	<p>Name: Ibraheem Nooruddeen Al-bukhari</p> <p>Academic rank: Assistant Professor</p> <p>General Academic specialty: Construction Management</p> <p>Specific field of specialty: BIM Applications in Construction Management</p> <p>Graduation University:</p> <p>Contact: ialbukhari@gmail.com</p>
	<p>Name: Adel M Binyaseen</p> <p>Academic rank: Professor</p> <p>General Academic specialty: Architectural Design</p> <p>Specific field of specialty: Architectural Design of Office Buildings</p> <p>Graduation University: Strathclyde- UK</p> <p>Contact: Binyaseen@yahoo.com</p>
	<p>Name: Magdy ElBastawisy</p> <p>Academic rank: Professor</p> <p>General Academic specialty: Architecture</p> <p>Specific field of specialty: Urban Design and Development</p> <p>Graduation University:</p> <p>Contact: mbstwsy@yahoo.com</p>
	<p>Name: Khaled Nasser Mohamed Barashed</p> <p>Academic rank: Professor</p> <p>General Academic specialty: Architecture</p> <p>Specific field of specialty: Architecture & Urban Design</p> <p>Graduation University: Bauhaus-University, Germany</p> <p>Contact: Barashed@hotmail.com</p>
	<p>Name: Abdo Thabit Mohammed alabsi</p> <p>Academic rank: Professor</p> <p>General Academic specialty: Architecture Design</p> <p>Specific field of specialty: Urban Planning And Design</p> <p>Graduation University: Tonight University shanghai - China</p> <p>Contact: Abdoabsi2003@yahoo.com</p>
	<p>Name: Khaled Mahmoud Samy Hassan Sayed</p> <p>Academic rank: Professor</p> <p>General Academic specialty: Urban Planning</p> <p>Specific field of specialty: Urban Planning</p> <p>Graduation University: Cardiff University, UK</p> <p>Contact: Kmsayed@uqu.edu.sa</p>
	<p>Name: Mohamed Atef Elhamy Kamel</p> <p>Academic rank: Professor</p> <p>General Academic specialty: Architecture</p> <p>Specific field of specialty: Urban Design</p> <p>Graduation University: Alex. University, Egypt.</p> <p>Contact: makamel@uqu.edu.sa</p>

	<p>Name: Mohamed Wahba Ibrahim Khalil</p> <p>Academic rank: Professor</p> <p>General Academic specialty: Architecture</p> <p>Specific field of specialty: Sustainable Urban Design</p> <p>Graduation University: Alexandria University. Egypt</p> <p>Contact: mwahb2003@yahoo.com - mwkhalil@uqu.edu.sa</p>
	<p>Name: Ehab Farouk rached</p> <p>Academic rank: Professor</p> <p>General Academic specialty: Architecture</p> <p>Specific field of specialty: Environmental design</p> <p>Graduation University: Cairo University- Egypt</p> <p>Contact: efrached@uqu.edu.sa</p>
	<p>Name: Ahmed M. A. Shehata</p> <p>Academic rank: Professor</p> <p>General Academic specialty: Architecture</p> <p>Specific field of specialty: Computer aided urban design</p> <p>Graduation University:</p> <p>Contact: elsherouk@hotmail.com</p>
	<p>Name: Ali Yahya Ali Atwah</p> <p>Academic rank: Associate Professor</p> <p>General Academic specialty: Landscape Architecture</p> <p>Specific field of specialty: Landscape Architecture</p> <p>Graduation University:</p> <p>Contact: AYATWAH@gmail.com</p>
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	<p>Name: Thamer Hamdan AlHarbi</p> <p>Academic rank: Associate Professor</p> <p>General Academic specialty: Architecture</p> <p>Specific field of specialty: Housing</p> <p>Graduation University</p> <p>Contact: thHARBI@uqu.edu.sa</p>
	<p>Name: Amjed Abdulrahman Maghrabi</p> <p>Academic rank: Associate Professor</p> <p>General Academic specialty: Architecture</p> <p>Specific field of specialty: Smart Buildings and Systems - Building Science</p> <p>Graduation University: University of Sheffield -United Kingdom</p> <p>Contact: Amjed2000@hotmail.com</p>
	<p>Name: Mohamed M. Shawky Abou Liela</p> <p>Academic rank: Associate Professor</p> <p>General Academic specialty: Architecture</p> <p>Specific field of specialty: Urban and Architecture Heritage</p> <p>Graduation University Mansoura university egypt</p> <p>Contact: m_shawky_lila@yahoo.com</p>


	<p>Name: Tarek Farouk Abdelsalam</p> <p>Academic rank: Associate Professor</p> <p>General Academic specialty: Architecture</p> <p>Specific field of specialty: Urban design</p> <p>Graduation University of Alexandria- Alexandria</p> <p>Contact: Drtarekouf64@Yahoo.com</p>
	<p>Name: Jameel M. ALSALAFI</p> <p>Academic rank: Associate Professor</p> <p>General Academic specialty: Architecture</p> <p>Specific field of specialty: Architecture</p> <p>Graduation University: The University of IDAHO, USA</p> <p>Contact: jmsalafi@uqu.edu.sa</p>
	<p>Name: Samir Abdull Hamid Ashi</p> <p>Academic rank: Assistant Professor</p> <p>General Academic specialty: Architecture</p> <p>Specific field of specialty: Environment and Behavior</p> <p>Graduation University:</p> <p>Contact: sameerashi1377@gmail.com</p>
	<p>Name: Abdulghani H Monawar</p> <p>Academic rank: Associate Professor</p> <p>General Academic specialty: Architecture</p> <p>Specific field of specialty: Building Science, Energy Studies</p> <p>Graduation University:</p> <p>Contact: ahmonawar@uqu.edu.sa</p>
	<p>Name: Faisal M. A. Alshareef</p> <p>Academic rank: Assistant Professor</p> <p>General Academic specialty:</p> <p>Specific field of specialty:</p> <p>Graduation University: University of Liverpool, UK</p> <p>Contact: Alshareeff@uqu.edu.sa</p>
	<p>Name: Samir M N Felmban</p> <p>Academic rank: Assistant Professor</p> <p>General Academic specialty: Architecture</p> <p>Specific field of specialty: Room Acoustics</p> <p>Graduation University:</p> <p>Contact: Sfelmban@hotmail.com</p>
	<p>Name: Abdull Hafiz Ahmed Al Wafi</p> <p>Academic rank: Assistant Professor</p> <p>General Academic specialty: Architecture</p> <p>Specific field of specialty: Interior design</p> <p>Graduation University:</p> <p>Contact: dralwafi@hotmail.com</p>
	<p>Name: Waal Saleh Al Halbi</p> <p>Academic rank: Assistant Professor</p> <p>General Academic specialty: Architecture</p> <p>Specific field of specialty: Crowd Managmrnt</p> <p>Graduation University:</p> <p>Contact: walhalabi@gmail.com</p>

	<p>Name: Wadi Ali Al Barqai</p> <p>Academic rank: Assistant Professor</p> <p>General Academic specialty: Architecture</p> <p>Specific field of specialty: Digital Design Techniques</p> <p>Graduation University:</p> <p>Contact: w_brgwai@hotmail.com</p>
	<p>Name: Amr Mohamed Zin Eldin Elzawahry</p> <p>Academic rank: Assistant Professor</p> <p>General Academic specialty:</p> <p>Specific field of specialty:</p> <p>Graduation University:</p> <p>Contact: amr_zaineldin@hotmail.com</p>
	<p>Name: Ali Abd alla Hassan Elmansoury</p> <p>Academic rank: Assistant Professor</p> <p>General Academic specialty: Architecture</p> <p>Specific field of specialty: Theory & History of Architecture</p> <p>Graduation University:</p> <p>Contact: Mansory74@yahoo.com</p>
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	Specific field of specialty:
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	General Academic specialty:
	Specific field of specialty:
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	General Academic specialty:
	Specific field of specialty:
	Graduation University: Chatham University- U.S
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	<p>Name: Ahmed Saleh Aljuhani</p> <p>Academic rank: Teaching Assistant General Academic specialty: Specific field of specialty: Graduation University: Umm AlQura university Saudi Arabia Contact: ahmed733@hotmail.com</p>
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	<p>Name: SALEH FAROUK SALAMAH Academic rank: Teaching Assistant General Academic specialty: Specific field of specialty: Graduation University: Umm AL-Qura University, Saudi Arabia Contact: arch.salehsalamah@hotmail.com</p>
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Facilities and Equipment of the Islamic Architecture Department

The College of Engineering and Islamic Architecture began through the opening of the Department of Islamic Architecture in the year 1402 H, under the umbrella of the College of Applied Science and Engineering as a first engineering department. Then the opening of the other three Departments has been followed; the Electrical Engineering Department, the Department of computer science, the department of Civil Engineering, and finally the department of Mechanical Engineering.

Department Spaces

The DIA is located in a modern three-story building within the faculty of Engineering and Islamic Architecture building in the main Campus. The building has good and complete facilities for the educational environment. The DIA has allocated a number of office rooms for faculty members. The rooms have good ventilation and lighting, cable and wireless NET with good office furniture (See attached plans). The DIA, also, has a number of studios, classrooms and lecture halls suitable for teaching architecture programme. Faculty members and students enjoy sufficient teaching spaces and excellent resources encouraging to delivering the degree programmes (See attached table and plan).

The DIA has two laboratories for computer with full equipment fitted for laboratory-based activities. The DIA has 13 studios, and classrooms are obtainable on demand from the college, they are distributed as shown in the next figures and the following table.

All teaching spaces are prepared with effective technical tools such as fixed or portable Data show. Moreover there are 7 Labs and workshops, two of them are computers Labs equipped with 50 PCs. The DIA aspire in the foreseeable future to add another 7 studios, and equipping the existing laboratories and workshops with required equipment.

In the faculty building, there is a restaurant and a cafe available for students, staff and other people. Faculty staff has their own restroom. A room has been reserved for students' Activities. Table 4.4 shows the distribution of the classrooms and the laboratories in Department. (Appendix DIA 14).

Table 4.4, Needs of Classrooms and Laboratories and other Academic Spaces in the DIA

Possibilities	Available	Required
Studios	10	20
Labs and workshops	5	0
Offices for faculty members and administrative staff	32	50
Conference Room	1	
Multi-Purpose Hall	1	
Academic Accreditation Room	1	
Research Room	1	
Lounge for Faculty staff	1	
Summer Training Unit	1	
Registration and academic supervision	1	
Students' Activities Room	1	
Library/showroom/Multi-Purpose Room	1	1
Exhibition	1	



Figure 4.4, Ground Floor Plan, Faculty of Engineering and Islamic Architecture



Figure 4.5, First Floor Plan, Faculty of Engineering and Islamic Architecture



Figure 4.6, Second Floor Plan, Faculty of Engineering and Islamic Architecture.



Figure 4.7, Main Entrance Court

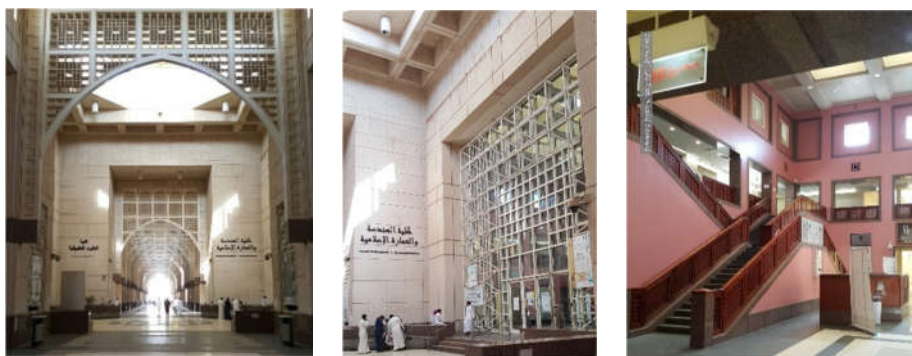


Figure 4.8, College of Engineering and Islamic Architecture Main Corridor

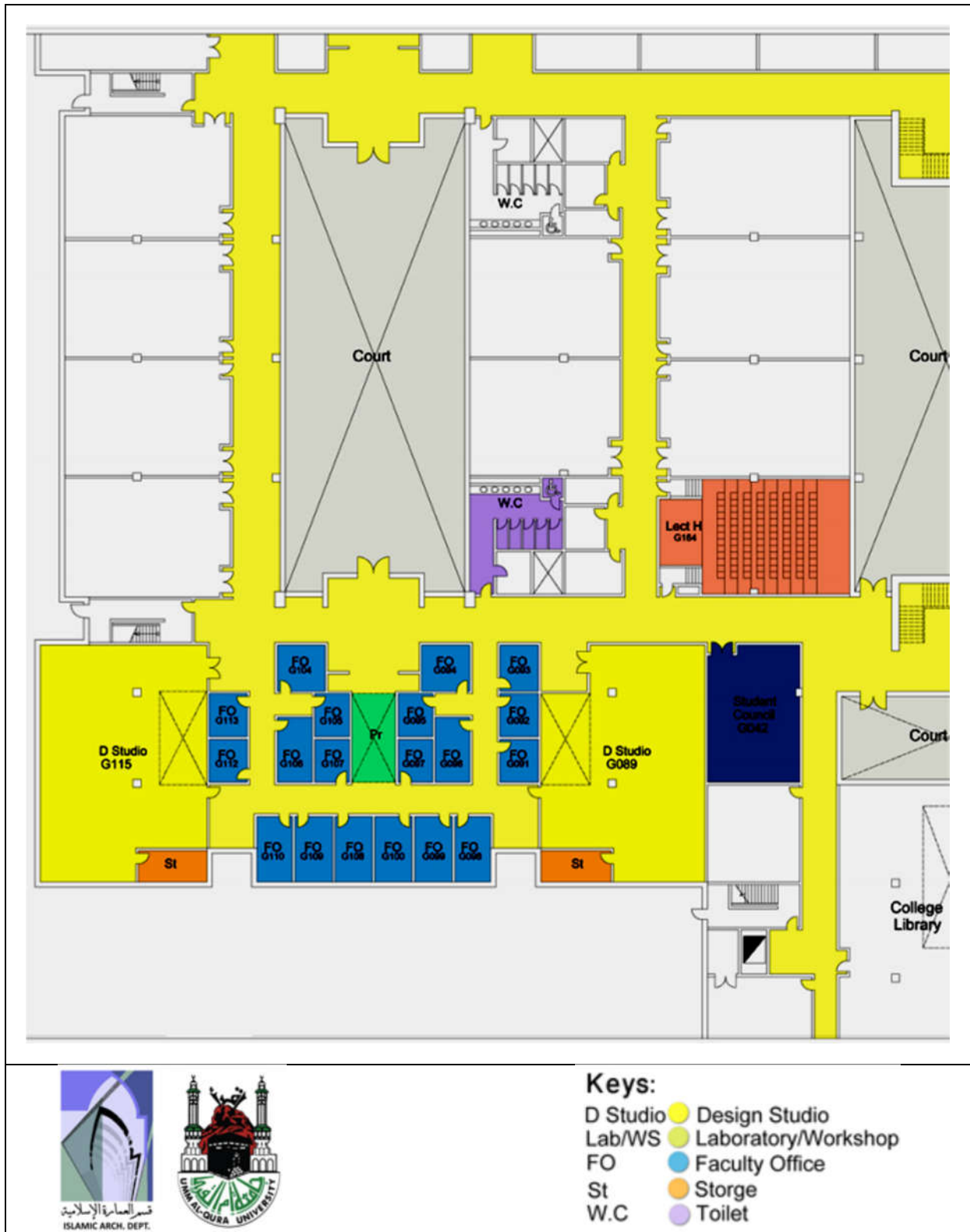


Figure 4.9, Ground Floor Plan, DIA



Figure 4.10, 1st Floor Plan, DIA

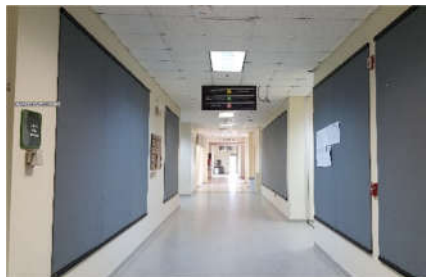


Figure 4.11, 1st Floor Plan, DIA Corridor (left), Faculty Members Room (right)



Figure 4.12, 2nd Floor Plan, DIA



Figure 4.13, DIA Conference Room



Figure 4.14, DIA Multi-Purpose Hall

Teaching Rooms

Studios and classrooms are distributed over the three floors of the department. They are in different sizes. Some of them suited 30 students; other rooms can suite more (figure 14 and 15). Teaching rooms are well-lit and ventilated, and the whole building is central air conditioned.

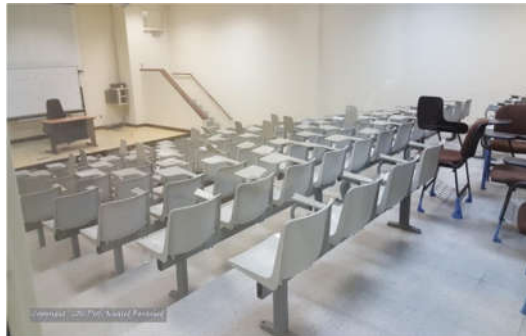


Figure 4.15, Lecture Hall at the Main College Building



Figure 4.16, Conference Room in the DIA, also used for Postgraduate thesis Viva

Laboratory

The laboratories and workshops at the DIA are the practical part to complete the academic program. By visiting these labs the students learn various construction methods and how to use different materials. They also learn thermal insulation methods, sound and moisture. The student recognizes some equipment to study thermal behavior and humidity inside and outside buildings. They also use some temperature and humidity measuring instruments, to measure the air speed and to learn the behavior between buildings and the physical environment, as well as measure the intensity of lighting in different places inside and outside the building. They recognize the quality and quantity of lighting needed for different spaces according to the quality of use, measure sound at different distances from the source, and determine the physical behavior of sound in different media. They also study the phenomenon of reflection and sound absorption, the characteristics of absorbent and reflective materials.

Table 4.5 showing list of laboratories or workshops in the DIA.

No.	Name of laboratory or workshop	Story	Room No.
1	Materials Lab	First Floor	1133
2	Environment Lab	First Floor	1134
3	Construction Workshop	First Floor	1135
4	Models Workshop	Second Floor	2053
5	Computer Lab	Second Floor	2055

Note: The laboratories are currently used for display through a collection of samples of materials used in construction and some devices and systems on which the use of the building and some operating systems depend.

In turn, the Department of the College and the Department seeks to develop the use of laboratories and workshops as a fundamental part of the educational process and help students to carry out some of the work related to their projects in the architectural design.

In addition to the DIA Labs there are other Laboratories in college are available e.g. geodesy and static Laboratories, and the linguistic Laboratories. However, the DIA aspires to improve its own laboratories, and workshops according to the potential offered by the university. By means of this ambitious development, the DIA aims to develop the environment of the study process and supply the existing labs with tools with modern and appropriate equipment's for raising the efficiency of the educational process in the department.

Computer lab:

Computer lab is one of the most important training laboratories specialized in the field of upgrading the skills of computer drawing for students of architecture.

The Lab includes 30 computers in addition to the smart board. The computer lab aims to train the architectural students to use the computer as a drawing tool, design and architectural output. This is part of the package of skills that an architectural student must learn during his or her career. Which is as follows:

1. Two-dimensional architectural drawing programs.
2. Three-dimensional architectural modeling programs.
3. Software output and modify images.
4. Modeling programs for BIM construction parameters

The Lab is used for the following purposes:

- Training students to use computers as a basic skill required in the labor market.
- Introduce students to the importance of using computers within the architectural scope.
- Strongly introduce students to the possibilities of using the computer as a drawing, design, and output tool.
- Conducting tests to measure students' skill in using computers.
- Organizing periodic theoretical and practical training courses in the areas of upgrading or at least improving the skills of computer use for architects.

As aspiring, the DIA will have two computer labs; each one will accommodate 30 devices with appropriate software. (Table 4.6)



Figure 4.17, Computer Lab at the DIA.

Table 4.6, List of New Original Computer Programmes and their Specifications and Quantities

Item	Name	Description	Qty	Remark
1	Windows 8 64 bit			Computer Lab
2	Anti-virus soft ware			
4	AutoCAD Last Version in 2015	Educational licence (100 USER)	1	
5	Arc GIS at least 8.1	Educational licence (100 USER)	1	
6	Sketch up Pro Last Version in 2015	Educational licence (100 USER)	1	
7	3D Max Last Version in 2015	Educational licence (100 USER)	1	
8	Rivet Last Version in 2015	Educational licence (100 USER)	1	
9	Adobe Photoshop Last Version in 2015	Educational licence (100 USER)	1	
10	Lumin Last Version in 2015	Educational licence (100 USER)	1	
11	Grasshopper Last Version in 2015	Educational licence (100 USER)	1	
12	Envimet Last Version in 2015	Educational licence (100 USER)	1	
13	Design Builder software:	Educational licence (20 USER) tool for checking building energy, carbon, lighting and comfort performance (Site License 3,000, 10 seats of visualization 2,000, Energy Plus 2,000, HVAC 2,000, Day lighting 3,000 and CFD seats 12,000)+ extra support .	1	
14	IES software, Integrated Environmental Solution software (VE-Pro):	Educational licence (20 USER) Building performance simulation tools and creating understanding of the performance impacts of different low-energy design strategies. A flexible integrated system for performance assessment that brings productivity and excellence to every aspect of sustainable building design..	1	Environment al Lab

Table 4.6, List of New Devices and there Specifications and Quantities
(Computers, Plotters, Copy Machine, Printers and other indispensable equipment's and services)

يملاً هذا الجانب بمعرفة المؤسسة/الشركة المتقدمة للعطاء		يملاً هذا الجانب بمعرفة الجامعة		
السعر الاجمالي	سعر الوحدة	العدد	اسم الجهاز/ المعدة و المواصفات الفنية	رقم البند
		٦	طابعة مقاس A0 حسب المواصفات الفنية رقم (١) الواردة في وثائق العطاء.	١
		٦	ماكينة تصوير أوراق حسب المواصفات الفنية رقم (٢) الواردة في وثائق العطاء.	٢
		٢٤	طابعة مقاس A3 حسب المواصفات الفنية رقم (٣) الواردة في وثائق العطاء.	٣
		١٠٠	جهاز حاسب آلي مكتبي حسب المواصفات الفنية رقم (٤) الواردة في وثائق العطاء.	٤
		٢٤	تلفزيون LED بإضاءة خلفية / ثلاثي الأبعاد مقاس ٨٥ بوصة حسب المواصفات الفنية رقم (٥) الواردة في وثائق العطاء.	٥
		٩٥	طاوالت حاسب آلي حسب المواصفات الفنية رقم (٦) الواردة في وثائق العطاء.	٦
		٢١	طاوالت الأساتذة للمعامل والنورش حسب المواصفات الفنية رقم (٧) الواردة في وثائق العطاء.	٧
		٣	الشبكات وتجهيزات المعامل حسب المواصفات الفنية رقم (٨) الواردة في وثائق العطاء.	٨
		١	طابعة رقمية ملونة ذات إنتاجية عالية حسب المواصفات الفنية رقم (٩) الواردة في وثائق العطاء.	٩
السعر الإجمالي				
ملاحظات مهمة جداً: وفقاً للشروط والمواصفات الموضحة أدناه				

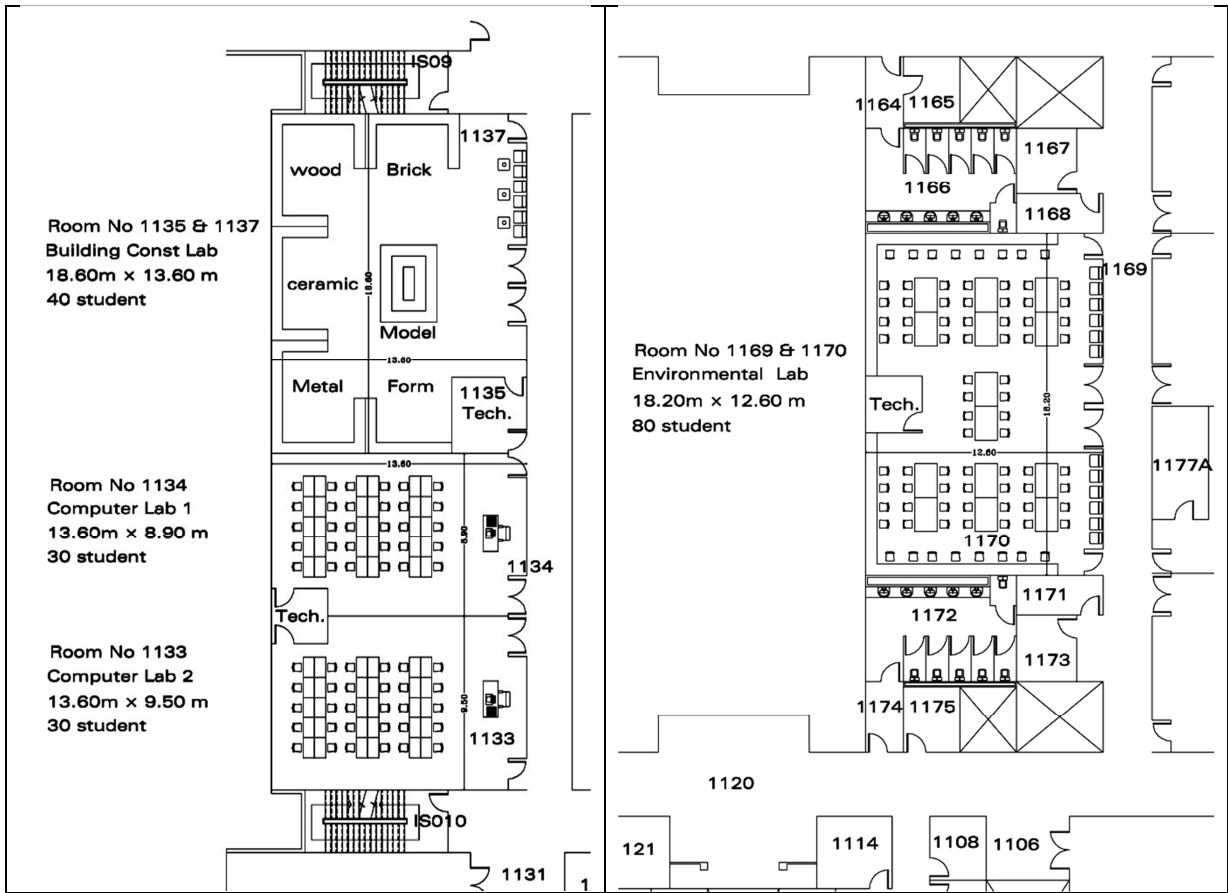


Figure 4.18, Plans Showing Foreseeable Labs

(Computer - Building Construction - Environmental Studies)

In Addition to developing the labs, the DIA is looking for developing the department library and an exhibition room for student projects. (Fig 4.17)

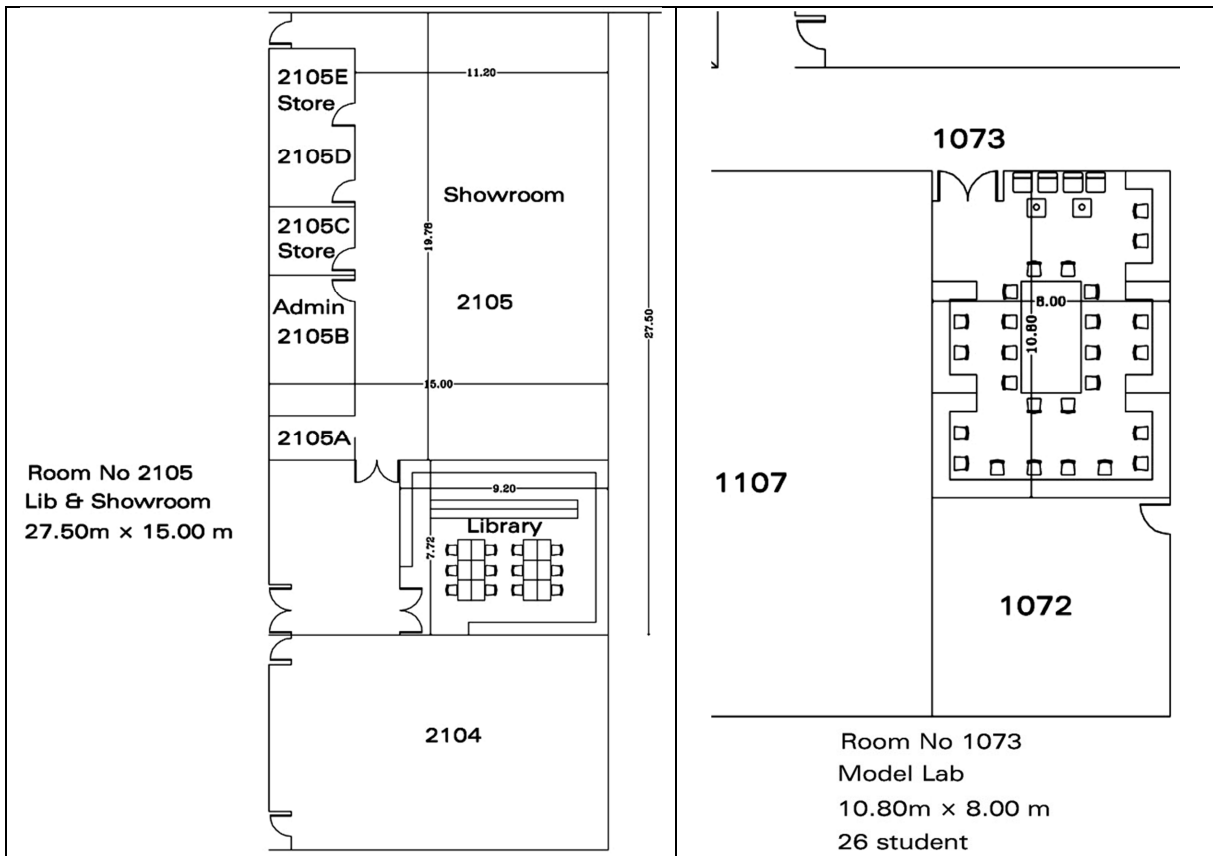


Figure 4.19, Plans Showing Expected Exhibition Room for Student Projects

Table 4.7, Statement Required Devices and Equipment for Models Workshop & labs

الكمية	البيان	م
٢ ثابت	منشار أرکت كهربائي " Dremel " أمريكي	١
٤	منشار أرکت كهربائي " Boch " سويسري	٢
٢	شنيور ١٣ مم " Skic " أمريكي	٣
١	فارة كهربائية متحركة " Decker "	٤
١	حامل فارة " Decker "	٥
٢	كومبيريسور " power pal " أمريكي	٦
٢	طقم باستولا + " inflator " عدد ٨ قطع	٧
١	مكنسة كهربائية " bulldog "	٨
٦	ميزان مياه جونسون أمريكي	٩
٥	منشار يدوي أمريكي " Croat "	١٠
٤	مكواة خشبية ٤/١ بوصة " Croat "	١١
٢	موتول متعدد السرعات " Drawl " أمريكي	١٢
٢	فرشة الراوتر " Drawl " أمريكي	١٣
٢	ستاند الراوتر " Drawl " أمريكي	١٤
٤ + بنطة HSS	طقم بنط الراوتر " Drawl " أمريكي	١٥
٢	قاعدة تثبيت الراوتر " Drawl " أمريكي	١٦
٢	زاوية صلب ٢٠ سم ستانلي أمريكي	١٧
٣	دولاب حديد ٢ ضلفة - ٥ أرفف	١٨
١	مكتب ووحدة أدرج	١٩
١	وحدة معمل (ترابيزة ودولاب علوي)	٢٠
٥	ترابيزة عمل	٢١
١	جهاز حاسب الي كامل	٢٢
٢	قاطع " cutter " دائري " Nippon "	٢٣
٢ من (١٠-٤.٥)	طقم بنط مثقاب " HSS " ألماني	٢٤
٢	مفك عادة أسود طويل ألماني	٢٥
٢	مفك صليبيه أسود طويل ألماني	٢٦
٢ علبة	غيار أسلحة كاتر " Croat "	٢٧
٤ علبه	غيار أسلحة كاتر تايواني	٢٨
٢	منجلة " pony " تايواني ٣	٢٩
١	طقم مبارد ٦ صغيرة " schlag " ألماني	٣٠
٤	طقم زرجينة ٣ أمريكي ١، ٢، ٣ بوصة	٣١
٣	ماسك صنفرة Ace, Hw	٣٢
٢	ماسك كشط صغير ٣ بوصة أمريكي Ace, Hw	٣٣
٢	شريط قياس صلب ٥ متر تايواني	٣٤
٤	سكينه معجون مقاس ٢	٣٥
٤	سكينه معجون مقاس ٢	٣٦
٢٠	مسطرة صلب ٣٠ سم	٣٧
٥	مسطرة صلب ٦٠ سم	٣٨
٢	مسطرة صلب ١٠٠ سم	٣٩
١٠	مشارط " cutters " أولفا ياباني بسمار + جراب حديد مقاس كبير	٤٠
٢٥	مشارط " cutters " أولفا ياباني بسمار + جراب حديد مقاس صغير	٤١
٥ علب	غيارات للمشارط " cutters " أولفا مقاس كبير	٤٢
١٠ علب	غيارات للمشارط " cutters " أولفا مقاس صغير	٤٣
٥	كولا ألماني	٤٤
٢٥	لاصق أوهو كبير أصفر	٤٥
١٠	لوحات تقطيع " Pads " مقاس " AO "	٤٦
٢	Desktop computer : Sprout by HP	٤٧
١	تليفزيون BRAVIA 4K بإضاءة LED خلفية / ثلاثي الأبعاد من السلسلة X مقاس ٨٥ بوصة Model :KD-85X9500B	٤٨
١	Plotter : HP Design jet Z6200 Photo Production Printer	٤٩
٢	Printer A3 : HP Color LaserJet Professional CP5225n Printer	٥٠
٢	HP Officejet Pro X476dw Multifunction Printer (CN461A) - Black	٥١
٢	MX-5141N/4141N Digital Full Colour Multifunctional System	٥٢
٢	HP Scanjet 300 Flatbed Photo Scanner	٥٣

9	Laser Cutter	<ul style="list-style-type: none"> • 60*40cm working station unit • High performance laser quality 	2	Model Lab
10	3D Printers student station	<ul style="list-style-type: none"> • Wire material base units • Three production heads • Multiple options of ABS plastic colors • 70 Micron precision • 15mm/sec speed • LCD touch screen • 2giga • Compact stations 	10	Model Lab
11	3D Printers (Production station)	<ul style="list-style-type: none"> • Powder material base unit • 1600x750x750 dpi Precision • 16 micron • HD-HS-UHD (ultra) –XHD system • Max Model Size 300x190x210mm • 	1	Model Lab
12	CNC Engraving Pad	<ul style="list-style-type: none"> • 70 X 50 working station unit • Hardware & software inclusive 	2	Model Lab








Table 4.8, List of Required Devices and Equipment for Environment, and Sound and Light Lab

Item	Name	Description	Remark	Qty
1	Sound Level Meters جهاز قياس صوت	<ul style="list-style-type: none"> • LCD Display • IEC 61672 Class 2 • Frequency weighing A,C & Z • 20 to 137dB measurement range • High accuracy condenser microphones. • Computer interface • Auto range & Manual range • Durable & Heavy duty • Protective Storage and handling case 	Acoustic Lab	15
2	Instrument Tripod حامل ثلاثي الأرجل	<ul style="list-style-type: none"> • Lightweight • Durable 	Acoustic Lab	10
3	Sound and Vibration Measurement Suit Analyzer قياس ومحلل الصوت والاهتزازات	<ul style="list-style-type: none"> • Complete analysis system • Hardware and Software 	Acoustic Lab	2
4	Multi-Function measuring unit Meter جهاز قياس متعدد الوظائف	<ul style="list-style-type: none"> • LCD Display • For measuring: <ul style="list-style-type: none"> • Anemometer (Air velocity + Temp.) • Humidity (%RH + Temp.) • Light • Pressure • Thermometer • Universal units option • Computer interface • Interchangeable Probes • Protective storage, handling, and transferring case. 	Environmental Lab	10
5	Moisture Meter	<ul style="list-style-type: none"> • LCD Display 	Environ	2

	جهاز قياس الرطوبة	<ul style="list-style-type: none"> • Range over 9% - 30% • Durable • Protective storage, handling, and transferring case 	mental Lab	
6	Data loggers جهاز تسجيل بيانات	<ul style="list-style-type: none"> • Measuring, recording and data processing Function. • High storage measuring points capacity • Computer interface with Data processing software inclusive • Durable • Protective storage, handling, and transferring case. 	Environmental Lab	2
7	PhotoVortic Solar Energy Trainer System الخلايا الفوتوفولطيه (نظام تدريب)	<ul style="list-style-type: none"> • Simulation Panel • Graphical Presentation • Digital multimeter for measurements • Protective case and display stand 	Environmental Lab	1
8	Wireless weather station محطة لاسلكية لقياس المناخ	displays and records barometric pressure, temperature, humidity, rainfall, wind, solar radiation and UV. It also gives calculated values such as wind chill, dew point and evapotranspiration as well forecasting and a current conditions	Environmental Lab	1
9	Basic Wind Tunnel (AEROLAB) جهاز قياس خصائص حركة الهواء	to investigate the wind induced environment around building	Environmental Lab	1
10	Air tightness Testing System (Energy Conservatory Minneapolis blower door) جهاز قياس تسرب الرياح	Measure the air tightness level of building envelopes, diagnose and demonstrate air leakage problems, estimate natural infiltration rates, estimate efficiency losses from building air leakage, and certify construction integrity	Environmental Lab	1
11	Infrared cameras كاميرا قياس الأشعة تحت الحمراء	HD Infrared camera (1024* 768 resolution , 786,432 pixels) Get a premium in – field viewing experience for quick issue identification with the large 5.6 inch high resolution LCD screen	Environmental Lab	5
12	Hot wire Anemometer جهاز قياس حركة الهواء في الأنابيب والأنفاق	Includes telescopic sensor head suits air and gas flow measurement in pipes or ducts Dual display of velocity and temperature	Environmental Lab	15
13	DIGITAL LUXMETER جهاز قياس شدة الاستضاءة	<ul style="list-style-type: none"> • Measurement of luminance , timed mean calculation ,logger function • Measurement range : 0 to 100.000 lux • Resolution : 0 to 32.000 lux : 1 lux 0 to 100.000 lux: 10 lux 	Light Lab	15
14	Laser Distance Meters جهاز قياس المسافات بالليزر	Compact and robust model designed for indoor use. Stores up to 10 last measurements. Automatic measuring point adjustment	Environmental Lab	10
15	Infrared	The laser targeting enables accurate	Environ	15

	Thermometers أجهزة ترمومتر بالأشعة تحت الحمراء	readings for a wide range of industrial applications, HVAC and automotive diagnostics	mental Lab	
16	Indoor climate measurements أجهزة قياس المناخ الداخلي	cutting-edge measurement technology of temperature, humidity, and airflow	Environmental Lab	7
17	Heliodon جهاز دراسة وقياس تأثير حركة الشمس على مجسم المبني	is based on the concept of a very large imaginary sky dome that is centred over the building site being considered . It is easy to determine the solar access for passive, active, or photovoltaic solar systems no matter how complicated the building or site conditions may be.	Environmental Lab	1
18	Tracer gas test equipment جهاز لقياس تتبع الغازات	Tracer gas test equipment for ventilation measurements	Environmental Lab	1
19	Solar collector (systems) نظام تجميع أشعة الشمس (سخانات شمسية)	Solar collector (systems) with storage tank, advanced	Environmental Lab	2
20	Carbon dioxide measurement devices جهاز لقياس ثاني أكسيد الكربون		Environmental Lab	15

Table 4.9, Guidance of Equipment for Models Workshop (Electrical Equipment)

المعدلات	العدد	المواصفات	المعدة	م
١١٢ / طلاب	2	ELECTRIC TILE SAW 985EV: cutting length 90 cm, cutting thickness 4.5 cm, disc diameter 200 mm. Made in ITALY	منشار ثابت بزوايا 	١
٥ / ١ طلاب	6	HCM2SP Mighty Might Hot Wire EPS Foam Cutter Built-In Power Supply with Variable Heat Settings 6-3/4-Inch Hot Wire Cutting Height 10" x 15" Foam Cutting Table	قاطع سلك حراري 	٢
١ / جهاز	7	Rotary Tool Workstation New Multi Purpose Work Station/Drill Press Stand Made in USA	حامل رازوتر و استناد متعدد الاغراض 	٣
١ / جهاز	7	10PCS 1/8" Shank HSS Router Rotary HSS Woodworking Drill Bits Set Made in USA	طقم بنط راوتر 	٤
١ / جهاز	7	Rotary Drill Press Stand And Work Station 220-01 Made in USA	استناد راوتر 	٥
١ طقم / جهاز	7	216 PC ROTARY DRILL TOOL ACCESSORY KIT NEW FITS polish grind cut BARGAIN Made in USA	طقم اكسسوارات راوتر 	٦
١١٥ / طلاب	6	1/24 Rotary Tool Hobby Set Made in USA	راوتر 	٧

جهاز / ١	7	231 Shaper/Router Table Made in USA		٨
٢ / ١ طالب	14		منضدة راوتر مسدس شمع صغير	٩
٥ / ١ طلاب	6		مسدس شمع كبير	١٠
/ ١12 طلاب	٢ ٢	H2669 Hobby Lathe/Disc Sander Made in USA or Japan & 8 in. x 12 in. 1/3 HP Benchtop Wood Lathe Made in USA or Japan	مخرطة خشب صغيرة هوايات  	١١
٢ / طالب I	١٤		مكواة لحام قصدير	١٢

Table 4.10: Statement required Hand Tools devices and equipment's for model lab.

المعدلات	العدد	المواصفات	المعدة	م
١ / طالب	٢٦	All must be made in English tools	زوايا صلب ١٠	١
١ / طالب	٢٦		زوايا صلب ٢٠	٢
	٣		زوايا صلب ٦٠ / ٦٠	٣
٥ / ١ طالب	٦		ميزان مياه	٤
٥ / ١ طالب	٦		شاكوش	٥
٥ / ١ طالب	٦		طقم مبارد	٦
٥ / ١ طالب	٦		مفك صليبية	٧
٥ / ١ طالب	٦		مفك عادة	٨
١ / طالب	٢٦		مشرط كبير	٩
١ / طالب	٢٦		مشرط صغير	١٠
١ / طالب	٢٦		مشرط دائري	١١
١ / طالب	٢٦		منجلة طاولة	١٢
٥ / ١ طالب	٦		شريط قياس	١٣
١ / طالب	٢٦		مسطرة صلب ٣٠	١٤
١ / طالب	٢٦		مسطرة صلب ٦٠	١٥
٥ / ١ طالب	٦		مسطرة صلب ١٠٠	١٦
١ / طالب	٢٦		سكينه معجون "٢"	١٧
١ / طالب	٢٦		لوحات تقطيع ٣٠/٤٥	١٨
٥ / ١ طالب	٦		لوحات تقطيع ٤٠/٦٠	١٩
				٢٠
٢ / ١ طالب	١٤		زرجينة ربط "١"	٢١
٢ / ١ طالب	١٤		زرجينة ربط "٢"	٢٢
٢ / ١ طالب	١٤		زرجينة ربط "٣"	٢٣

Table 4.11, List of Raw Materials Consumption in the Model Workshop

ملاحظات	العدد	المواصفات	المعدة	م
طالب / ٢	٥١	Canson	كرتون ١ مم	١
طالب / ١	٢٦	Colored & Transparent Acrylic 	بلاستيك اكريليك ١ مم	٢
طالب / ٢	١٤		بلاستيك اكريليك ٢ مم	٣
طالب / ٥	٦		بلاستيك اكريليك ٥ مم	٤
طالب / ٢	١٤		خشب بلس ٢ مم	٥
طالب / ١	٢٦		رولات خضرة	٦
طالب / ١	٢٦	رولات ٣٠ سم في ٢٠٠ سم	استيكر متنوع	٧
طالب / ١	٢٦		A4 فواصل	٨
طالب / ١	٢٦		صفرة	٩
طالب / ٥	٦	Stereo foam sheets 60 X 100 High Dense 	فلين ١ سم	١٠
طالب / ٥	٦		فلين ٢ سم	١١
طالب / ٥	٦		فلين ٥ سم	١٢
طالب / ٢	١٤	بكرة	سلك قصدير	١٣
طالب / ٥	٦	Made in Japan , German or USA	اسلحة مشرط كبير	١٤
طالب / ٥	٦		اسلحة مشرط صغير	١٥
طالب / ٥	٦		لاصق او هو	١٦
طالب / ٥	٦	قارورة ٢٥٠ مللي	كلوروفورم صناعي	١٧
طالب / ٥	٦	صفحة نصف كيلو	كولا الماني	١٨
طالب / ٥	٦		انبوب سليكون ابيض	١٩
طالب / ٥	٦		انبوب سليكون شفاف	٢٠
طالب / ٥	٦	حزمة ٥٠ عود	اعواد شمع صغير	٢١
طالب / ٥	٦	حزمة ٢٥ عود	اعواد شمع كبير	٢٢
	١٠ علب		مسامير دق متنوع	٢٣
	١٠ علب		دبابيس	٢٤
طالب / ٢	٥١	French or German Paper 300 gm	كانسون ٣٠٠ جم	٢٥
طالب / ١	٢٦		صلصال بني / ابيض	٢٦

Table 4.12: List of Electronic Devices Needed for the Model Workshop



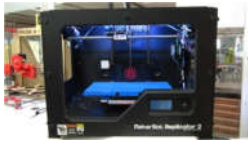

المعدلات	العدد	المواصفات	المعدة	م
يشمل البرامج والتدريب والتشغيل لمدة ٦ أشهر وصيانة سنة	1	<ul style="list-style-type: none"> • High performance laser quality • (813 x 457 mm) 60 watts USA • Corel Draw software inclusive • Filter for smoke & Dust 	<p>جهاز قطع ليزر</p> 	١
٤ / ١ طالب تشمل البرامج وخامات تشغيلية	٧	<ul style="list-style-type: none"> • Wire material base units • Three production heads • Multiple options of ABS plastic colors • 70 Micron precision • 15mm/sec speed • LCD touch screen • 2giga • Compact stations • software inclusive 	<p>طابعة ثلاثية الابعاد للمجسمات الدراسية</p> 	٢
تشمل البرامج وخامات تشغيلية	١	<ul style="list-style-type: none"> • Powder material base unit • 1600x750x750 dpi Precision • 16 micron • HD-HS-UHD (ultra) – XHD system • Max Model Size 300x190x210mm • Made in USA or Europe • software inclusive 	<p>طابعة ثلاثية الابعاد للمجسمات الدقيقة</p> 	٣
يشمل البرامج والتدريب والتشغيل لمدة ٦ أشهر وصيانة سنة	1	<p>CNC Engraving - CNC Router Machine - W(WS) 7590</p> <p>750mm x 900mm x 95mm</p> <p>Hardware & software inclusive</p> <ul style="list-style-type: none"> • Made in USA or Europe 	<p>CNC جهاز حفر</p> 	4

Table 4.13, List of Furniture Needed for Model Workshop





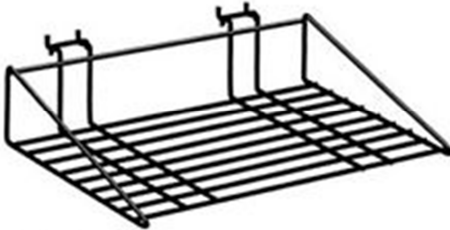



المعدلات	العدد	المواصفات Made in Italy or USA نموذج مشابه للصورة المرفقة*	الاثاث	م
١ / ٢ طالبة	١٤	Dim. 2.00 X 80 cm- H = 100cm * 	طاولت عمل*	١
١ / ٢ طالب	١٤	Dim. 1.6 X 2.20 cm- Depth = 60	دواليب حفظ الاجهزة	٢
١ / ٥ طلاب	٦		وحدات حفظ الكرتون و الفوم	٣
	٢	Dim. 2.00 X 80 cm- H = 100cm 	طاولت تثبيت المعدات	٤
١ / طالب	٣٠		كراسي دوارة بدون اذرع و لا ظهر	٥
	١	Dim. 2.00 X 80 cm- H = ٨0cm	طاولة امين المعمل	٦
	2	Dim. 9٠ X ٦٠ cm- H = 1.20cm	شانون حفظ الملفات	٧
١ / ٢ طالب	١٥	Dim. 2.00 X 80 cm	وحدات تعليق معدات حائطية *	٨
١ / ٢ طالب	١٣	Dim. ٦٠ X ٦٠ cm- H = ٨0cm	ادراج حفظ معدات يدوية	٩

Table 4.14, List of Devices and Objects and Services Required for the Exhibition Room

العدد	اسم الجهاز/ المعدة والمواصفات الفنية	رقم البند
	<p>نظام تجهيز معارض شامل:</p> <p>١. القواطع الداخلية (معدنية) لأقسام المعرض.</p> <p>٢. الاستاندات الرأسية والافقية (معدنية).</p> <p>٣. طاولات عرض للمجسمات.</p>	1
٥٠	<p>FAST SHIPPING! 3 NEW 2' X 6' Grid wall Store Display Panels BLACK</p> <p>3 Inch Standard Grid Panels - 2 Ft. X 6 Ft. QTY (3) Our 3" spaced grid panels come in four sizes for the ultimate in versatility. At Specialty Store Fixture we stand behind our products!</p> 	2
٢٠	<p>Get 1 Grid wall Display Set 4 way base w/casters + Grid wall panels 4 pcs 2x5 ft.</p> <p>PCS 2x5 ft. Grid wall Panels and 9 pcs Grid wall Joiner Clips. Grid wall panels are made with 1/4" wires that are spaced in 3" squares.</p> <p>Get 1 set Grid wall Display which includes: One Grid wall 4 way base</p> 	3
٦٠	<p>Slatwall Gridwall Slatgrid Pegboard Panel Metal Shelf Black 24x14"</p> <p>Lot of 12 NEW 12 watching Will fit slatwall, gridwall, pegboard or slatgrid. Case Lot of 12 NEW BLACK 24" x 14" Multi-Use Shelves for Display Grid Panels Gridwall/Slatwall. 8-inch Hooks Pegs Gridwall Panel Display Grid.</p> 	4

العدد	اسم الجهاز/ المعدة والمواصفات الفنية	رقم البند
١٥	<p>Get 1 Gridwall Display Set Gondola base w/casters + Gridwall panels 4 pcs 2x5 ft 4 PCS 2x5 ft Gridwall Panels and get 9 pcs Gridwall Joiner Clips . Gridwall panels are made with 1/4" wires that are spaced in 3" squares. Get 1 set Gridwall Display which includes: Gridwall Gondola</p> 	11
٦٠	<p>2' x 6' 2-Pack Gridwall Panel Tower & T-Base Display + 10 Utility Hooks Set of two (2) 2' x 6' Gridwall Panel Towers with T-Base Floorstanding Display, Includes 2 gridwall panels, 4 "T" bases and 10 utility gridwall hooks Chrome. 2' x 6' 2-Pack Gridwall Panel Tower&T-Base...</p> 	12
٢٥	<p>2' x 4' 2-Pack Grid wall Panel Tower & T-Base Display + 10 Utility Hooks White Set of two (2) 2' x 4' Grid wall Panel Towers with T-Base Floor standing Display, Includes 2 grid wall panels, 4 "T" bases and 10 utility grid wall hooks White. Includes 10 grid wall utility hooks.</p> 	13

Library of King Abdullah bin Abdul Aziz

The university library provides services for both university students and staff, and for outside customers. In the library area, there is also a study and work place with guidance for students - the Library of King Abdullah bin Abdul Aziz has about 100 posts, several group work premises, and two computer classrooms. The computer classrooms are available for independent studies whenever they are not reserved for teaching purposes. Library of King Abdullah bin Abdul Aziz also has a reading room that is open 24/7.



Saudi Digital Library (SDL) is the largest academic gathering of information sources in the Arab world, with more than (310,000) scientific reference, covering all academic disciplines, and the continuous updating of the content in this; thus achieving huge accumulation cognitive in the long run. Library has contracted with more than 300 global publishers. The library won the award for the Arab Federation for Libraries and Information ‘know’ for outstanding projects in the Arab world in 2010.



Library Systems:

Management of the library and its indexes is done through its coding system which is considered to be among the modern systems used in the library management.

Library Services:

The database includes information about both printed and electronic books as well as the storage information of printed journals. Electronic books can be accessed via a link to the Library catalogue. The Library provides its customers with library and information services both on-site and online. Information literacy education for the entire University is also arranged and given by the Library personnel. The Library is open to faculty staff, students, and general public during terms on workdays. There are computers and workstations available for the customers.

Department Library

In 2005, The department initiated its own library to serve the academic life alongside with main library of the university (king Abdulla Library). Most of the references in this library were donated by staff members, community figures and local professional firms. The running and maintenance of the library is managed by the department.

Role:

The library serves different types of users. The library assigned team main concern was to bring the text books and most needed references to the undergraduate students within the department in encouraging casual environment. Moreover, the library gives a good support to the graduation students with its huge number of researches and project samples accumulated through the last decade. In addition to the undergraduate students, the library has a good references and for research students through the available Ph.D, Masters and published papers of the professors and staff members of the department.

Facilities:

The Library presents a quite clean and yet casual environment for the users. It contains quit places for studying, it is consisted of the following spaces:

The reading area is organized as an open stacks hall. This reading hall is equipped with computers linked to the main library and its academic search facilities. Photocopying service is available for students on demand.

The seminar area can accommodate up to 15 persons. It is equipped with the required digital projection and printing facilities.

Quite area with an open stack system is dedicated for researchers and postgraduate students. The area is equipped also with computers linked to main library digital resources and printing facilities.



Figure 4.21, the DIA library



Figure 4.22, the DIA library

Prince Khalid Al-Faisal Research Chair for Upgrading Informal Areas

Chair Vision

Academic leadership in the area of upgrading informal areas

Chair Mission

Supporting upgrading efforts of Makkah to the level of the best developed world cities, through utilizing academic and scientific activities that would contribute in a comprehensive and permanent development to be able to coincide with the global trend in upgrading informal areas

Chair Objectives:

- Academic and scientific consolidation of upgrading informal areas.
- Transferring academic knowledge and scientific experience to the society and concerned organizations.
- Raising general awareness of the problems and methods of solving in the society
- Raising the administrative and professional awareness among practitioners and concerned organizations.
- Analysing and comparing the local, regional and international successful experiences in upgrading informal areas.
- Cooperating with international scientists and experts in the field.

Chair Activities:

- Conducting collaborative local and international research projects.
- Supporting scientific publications in the area of upgrading informal areas.
- Holding seminars and workshops in cooperation with local and international experts to present international suggestions and ideas.
- Providing academic and scientific consultations to related organizations to support the efforts of upgrading informal areas.
- Preparing and conducting training programmes to raise the awareness of upgrading informal areas to the best ways.

Academic Chairs – Umm Al-Qura University

The Research Chairs are university academic programmes that aim at enriching human knowledge, developing ideologies and serving the local development issues. These researches are usually funded personally or by institutions. The Research Chairs may assign professionals well known for their scientific excellence, outstanding experience and international reputation. At the same time, a qualified-researchers-team marked by its competence and experience in the field of the chair may also be engaged in the programme.

Prince Khalid Al-Faisal Research Chair

His Highness Prince Khalid Al-Faisal, Prince of Makkah Region, approved the research chair establishment under the name of Prince Khalid Al-Faisal Research Chair for Upgrading Informal Areas in Makkah City; which sponsored by the Saudi Bin Laden Company. The Prince approval reflects a clear vision about the importance of upgrading Makkah City according to the Ten-Year Plan. This plan reflect his Highness beliefs that academic research is the main and suitable way for developing and managing the informal areas in Makkah City. The Prince Khaled Research Chair schedule is a five- year programme that aims at solving the security issue in informal areas, and is having a social, human, and urban perspective. The objectives of the research chair is organizing and holding workshops, seminars and lectures to show the informal areas' disadvantages and the advantages of developing such areas.

Forum

- Appointing current activities for dealing with informal area in Makkah.
- Give development and upgrading authorities the opportunity for getting academic support.
- Investigating and analysing national and international experiences of upgrading and developing informal areas through academic research.
- Conducting academic analysis to current socio-economic and environmental issues of informal areas in Makkah.

Workshops:

The purpose of workshops is:

- Conducting gatherings and seminars for concerned parties of upgrading informal areas,
- Defining and discussing existing issues of informal areas, and, in turn,
- Identifying upgrading requirements and priorities for accomplishment of objectives.

Academic Researches

The Chair is supporting academic master theses in the field of upgrading informal areas as a part of the Master Degree Programme at the Department of Islamic Architecture, Umm Al-Qura University.

Competition

The competition provides an advanced opportunity for upgrading informal areas through performing creative urban planning and design alternatives; and supports achievement of the academic chair objectives by improving and maintaining civilized sustainable environment of the informal areas.



Figure 4.23, Prince Khaled bin Abdul Aziz during a speech delivered in the opening ceremony of the First Scientific Meeting of slums in Makkah (left). During the preparation of the first scientific forum of slums in Makkah (right)



Figure 4.24, Honouring student's participants in slums development projects by vice rector and the dean and the head of the Department DIA.

Exhibition:

The exhibition of the Department of Islamic Architecture lays on the second floor beside the library. The exhibition contains several projects, research papers and assignments of all 10 levels of the programme. Furthermore, it contains graduation and summer training projects. The exhibition is continuously updated year after year.



Figure 4.25, the DIA exhibition

Other Facilities:

Among the services offered by the university to the student, is a university restaurant in AL-Abidya, which is a 5-minute walk from the Faculty of Engineering. The restaurant serves three meals a day .There are also three cafeterias serving light snacks throughout the day. Printing services for students offered by two printing centres close to the Faculty of Engineering and serving the faculties of Engineering, the Faculty of Science, the Faculty of Computer, and the Faculty of Design.

There are several prayer rooms for faculty students, one of which is located on the ground floor of the Department. There are also several mosques on campus.



Figure 4.26, University restaurant at Abedia.



Figure 4.27, Cafeterias near the Faculty of Engineering.



Figure 4.28, One of the printing centres which serve the students of the Faculty of Engineering.

