AR Lab # 1   Environmental Laboratory

LAB INFORMATION

Room:	Capacity:	Courses Served:	Equipment:	Support Grad.:
A405	28	15	19	Y

LAB AIM

The Environmental laboratory was established to support environmental under- and post-graduate courses to better understand the relation between the natural and the built environment. The educational objective of experimental work is to provide under- and post-graduate students with the necessary skills for performing appropriate laboratory experiments/measurements to determine the physical changes that take place within the natural/built environment using modern tools available in the lab. The instructor or his assistant demonstrate the usage and function of the equipment and instrument involved. Students also get hand-on experience with the way of analysing the tests results and using the results in preparing technical reports. The environmental laboratory lab also serves computer related courses.

MAJOR EQUIPMENT

1	Desktop Computer	**28**
2	Weather Station	**2**
3	Heliodon	**1**
4	Occupancy/Light Data Logger (12m range)	**2**
5	Thermohygrometer	**6**
6	Carbon Dioxide Monitor and Data Logger	**2**
7	Temperature/Relative Humidity Data Logger	**4**
8	Temperature Data Logger + Probe	**16**
9	Light Intensity Pendant Data Logger	**4**
10	Multi-function Measuring Instrument + Hot-wire Probe + Globe thermometer + Surface Temp. Probes	**3**
11	Digital Indoor Air Quality Meter / Data Logger	**1**
12	Digital Hot Wire Thermo Anemometer	**1**
13	Sound Level Meter Data Logger	**3**
14	Wide Range Light Meter	**1**
15	Smaller Range Light Meter	**6**
16	Pyranometer Sensor	**3**
17	Infrared Non-Contact Thermometer	**1**
18	Data Logger	**2**
19	Chalk Powder Kit	**1**

COURSES SERVED

#	Course		Term
1	AR362	Environmental Studies 1	6
2	AR464	Environmental Studies 2	7
3	AR425	Introduction to Environmental Systems	8
4	AR423	Topics in Sustainability	9
5	AR524	EIA in Urban Planning	10
6	AR283	Computer Aided Drafting	3
7	AR284	3D Modeling	4
8	AR456	Execution Design 2	8
9	AR557	Execution Design 3	9
10	AR325	Rendering & animation	5
11	AR326	Computer Graphics	6
12	AR427	Introduction to Web Design	7
13	AR428	Computer Application in Architecture	8
14	AR529	Computer Applications in U.P. G.I.S.	9
15	AR422	Mediterranean City Urban & Arch. History	9

AR Lab # 1   Environmental Laboratory

E Q U I P M E N T   A N D   T E S T S

Weather Station	Heliodon

Occupancy/Light Data Logger (12m)	Thermohygrometer	Carbon Dioxide Monitor and Data Logger
Temperature/Relative Humidity Data Logger	Temperature Data Logger + Probe	Light Intensity Pendant Data Logger

Multi-function Measuring Instrument + Hot-wire Probe + Globe thermometer	Digital Indoor Air Quality Meter and Data Logger	Digital Hot Wire Thermo Anemometer
Sound Level Meter Data Logger	Wide Range Light Meter	Smaller Range Light Meter
Pyranometer Sensor	Infrared Non-Contact Thermometer	Data Logger
Chalk Powder Kit		

AR Lab # 2   Fabrication Laboratory

LAB INFORMATION

Room:	Capacity:	Courses Served:	Equipment:	Support Grad.:
BD03	15	10	7	Y

LAB AIM

The Digital Fabrication Laboratory (DFL) is a digital CAD/CAM workshop for the production of and experimentation with architectural physical models. It is equiped with Computer Numeric Control (CNC) machines, microcontroller kits, power tools, manual equipment, and working surfaces. As such, the DFL provides an avenue for the teaching and research in various topics in architecture, including, but not limited to: design, building technology, environmental studies, and sculpture.
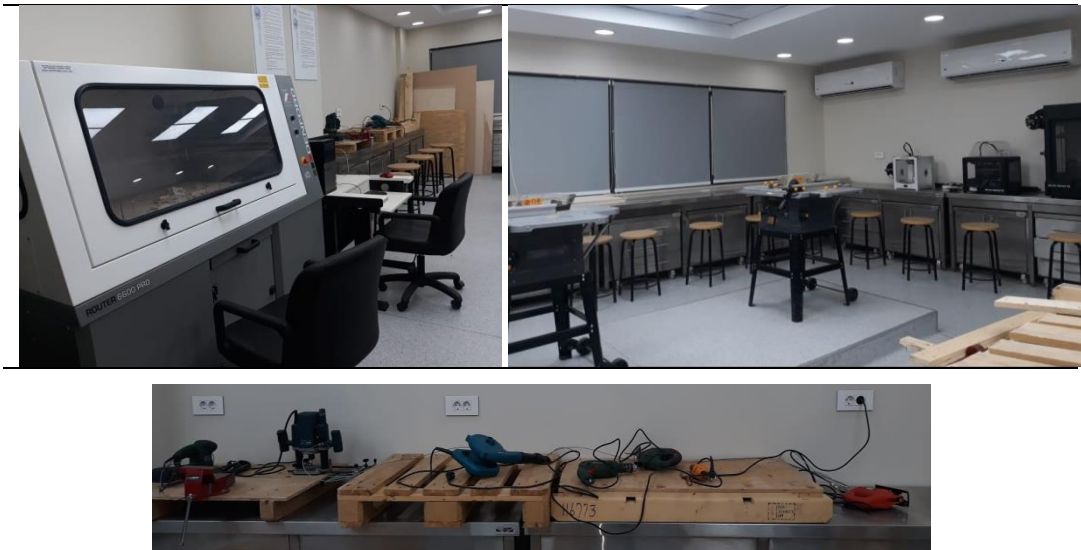
MAJOR EQUIPMENT

1	CNC Router	1
2	Laser Cutter	1
3	Table Saw	2
4	3D Printer	3
5	3D Laser Scanner	1
6	Microcontroller Kits	8
7	Power Tools	7

COURSES SERVED

#	Course		Term
1	AR283	CAD	3
2	AR284	3D Modeling	4
3	AR224	Workshops	4
4	AR325	3D Rendering and Animation	6
5	AR312	Architectural Design 2	5
6	AR313	Architectural Design 3	6
7	AR414	Architectural Design 4	7
8	AR415	Architectural Design 5	8
9	AR516	Architectural Design 6	9
10	AR501	Graduation Project	10

PHOTOS

AR Lab # 2   Fabrication Laboratory

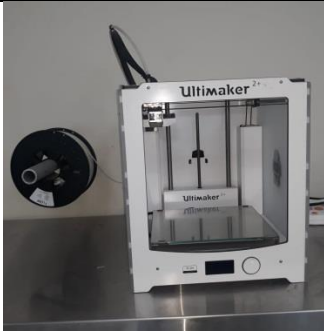|		
CNC Router	Laser Cutter	Table Saw
3D Printer	3D Printer	3D Printer

3D Laser Scanner   Microcontroller Kits

Power Tools/Clamp

AR Lab # 3   Computer Laboratory

LAB INFORMATION

Room:	Capacity:	Courses Served:	Equipment:	Support Grad.:
A413	21	12	1	Y

LAB AIM

The Computer laboratory was mainly established to provide under-graduate students with the necessary skills to draft, render and present their projects using up-to-date software releases available in the lab. At the beginning of each lab session, the instructor or his assistant will demonstrate the usage and function of the software involved.

MAJOR EQUIPMENT

1	DELL PCs	21

COURSES SERVED

#	Course		Term
1	AR283	Computer Aided Drafting	3
2	AR284	3D Modeling	4
3	AR456	Execution Design 2	8
4	AR557	Execution Design 3	9
5	AR325	Rendering & animation	5
6	AR326	Computer Graphics	6
7	AR427	Introduction to Web Design	7
8	AR428	Computer Application in Architecture	8
9	AR529	Computer Applications in U.P. G.I.S.	9
10	AR322	Int. to Arch. Photography	3
11	AR713	Env. Studies in Architecture and Urban Design	11
12	CB326	Building Information Modeling	5

PHOTOS

AR Lab # 4   Computer Laboratory

LAB INFORMATION

Room:	Capacity:	Courses Served:	Equipment:	Support Grad.:
A303	22	11	1	Y

LAB AIM

The Computer laboratory was mainly established to provide under-graduate students with the necessary skills to draft, render and present their projects using up-to-date software releases available in the lab. At the beginning of each lab session, the instructor or his assistant will demonstrate the usage and function of the software involved.

MAJOR EQUIPMENT

1	DELL PCs	22

COURSES SERVED

#	Course		Term
1	AR283	Computer Aided Drafting	3
2	AR284	3D Modeling	4
3	AR456	Execution Design 2	8
4	AR557	Execution Design 3	9
5	AR325	Rendering & animation	5
6	AR326	Computer Graphics	6
7	AR427	Introduction to Web Design	7
8	AR428	Computer Application in Architecture	8
9	AR529	Computer Applications in U.P. G.I.S.	9
10	AR422	Mediterranean City Urban & Arch. History	7
11	EE549	Computer Applications in Electrical Eng.	10

PHOTOS

AR Lab # 5   Computer Laboratory

LAB INFORMATION

Room:	Capacity:	Courses Served:	Equipment:	Support Grad.:
B006	19	13	1	Y

LAB AIM

The Computer laboratory was mainly established to provide under-graduate students with the necessary skills to draft, render and present their projects using up-to-date software releases available in the lab. At the beginning of each lab session, the instructor or his assistant will demonstrate the usage and function of the software involved.

MAJOR EQUIPMENT

1	DELL PCs	19

COURSES SERVED

#	Course		Term
1	AR283	Computer Aided Drafting	3
2	AR284	3D Modeling	4
3	AR456	Execution Design 2	8
4	AR557	Execution Design 3	9
5	AR325	Rendering & animation	5
6	AR326	Computer Graphics	6
7	AR427	Introduction to Web Design	7
8	AR428	Computer Application in Architecture	8
9	AR529	Computer Applications in U.P. G.I.S.	9
10	ME252	Mechanical Eng. Drawing	3
11	ME455	Computer Aided Design	8
12	CB326	Building Information Modeling	5
13	CB516	Construction Project Management	9

PHOTOS

AR Lab # 6   Computer Laboratory

LAB INFORMATION

Room:	Capacity:	Courses Served:	Equipment:	Support Grad.:
B007	19	13	1	Y

LAB AIM

The Computer laboratory was mainly established to provide under-graduate students with the necessary skills to draft, render and present their projects using up-to-date software releases available in the lab. At the beginning of each lab session, the instructor or his assistant will demonstrate the usage and function of the software involved.

MAJOR EQUIPMENT

1	DELL PCs	19

COURSES SERVED

#	Course		Term
1	AR283	Computer Aided Drafting	3
2	AR284	3D Modeling	4
3	AR456	Execution Design 2	8
4	AR557	Execution Design 3	9
5	AR325	Rendering & animation	5
6	AR326	Computer Graphics	6
7	AR427	Introduction to Web Design	7
8	AR428	Computer Application in Architecture	8
9	AR529	Computer Applications in U.P. G.I.S.	9
10	ME252	Mechanical Eng. Drawing	3
11	ME455	Computer Aided Design	8
12	CB326	Building Information Modeling	5
13	CB516	Construction Project Management	9

PHOTOS