





13	Medical Research Institute (Horia Street - Smouha)	Alexandria, Egypt	X	X	X	X	X	X	X	X	X	X	X	X	X	2500
14	Higher Institute of Public Profession	Alexandria, Egypt	X	X	X	X	X	X	X	X	X	X	X	X	X	700
15	University land in Smouha (College of Nursing - Children's Hospital - Faculty members residences)	Alexandria, Egypt	X	X	X	X	X	X	X	X	X	X	X	X	X	105218.22
16	Land of Mouwasat Hospital	Alexandria, Egypt	X	X	X	X	X	X	X	X	X	X	X	X	X	20234.27
17	Institute of Graduate Studies and Research	Alexandria, Egypt	X	X	X	X	X	X	X	X	X	X	X	X	X	2764
18	Faculty of Agriculture Saba Pasha	Alexandria, Egypt	X	X	X	X	X	X	X	X	X	X	X	X	X	144200.934
<b>Total</b>															<b>1,377,300.34</b>	

Please compile one row for each building (or homogeneous part of it) by ticking with a "X" for each requirement

### Applying green building concepts in the Faculty of Engineering - Alexandria University in 2020.

The buildings of the Faculty of Engineering - Alexandria University were chosen to be the nucleus from which to implement green building concepts regarding the general vision for applying environmentally friendly green building requirements to the Faculty of Engineering buildings (Report is attached).

In the report, the faculty buildings were studied, and the summary of the report was as follows:

1. Mechanical Engineering Building: Complies with green building requirements (LEED) with the silver category.
2. Preparatory building: conforms to green building requirements (LEED) with the silver category.
3. Administration building: It does not currently comply with green building requirements (LEED), but it is possible with simple modifications to adopt it.
4. Electrical Engineering Building: It does not currently comply with green building requirements (LEED), but it is possible to adopt it with simple modifications.

**After evaluating the Faculty of Engineering buildings, the elements of Green Building Implementation was considered in all building's maintenance activity and in the construction of new buildings.**

### Elements of Green Building Implementation as Reflected in all new construction and renovation policies:

- The area of the project is 160 acres (667,730.988 m<sup>2</sup>), a general site for educational buildings, and 120 acres are complementary activities. The percentage of green areas and lake is about 52% in addition to 25% atreets and lanes.
- Water-saving plots are used, which will reduce water consumption by abut 30%. The sewage water will be trated and reused in the irrigation of green areas in the project.
- Rainwater is collected in the main lake and used for irrigation.
- The use of plants with few water rationed plants to reduce irrigation needs in addition to absorbing quantities of rainwater to reduce the severity of rain spells.
- As for energy, all the buildings have solar enery generation cells to provide part of the building's needs, which are estimated at about 45%, in addition to using energy-saving lamps (LED).
- The punlic site lighting poles are powered by solar energy.



Total Building Area

$$\frac{\text{total building area}}{\text{total area}} \times 100\%$$

Total Building Area:

$$\frac{2,385,538.83 \text{ m}^2}{8,083,208.27 \text{ m}^2} \times 100\% = 30\%$$

Smart building implementation

$$\frac{\text{total smart building area}}{\text{total building area}} \times 100\%$$

Smart building implementation

$$\frac{1,377,300.34 \text{ m}^2}{2,385,538.83 \text{ m}^2} \times 100\% = 57.7\%$$

<p style="text-align: center;">Building 1</p> 	<p style="text-align: center;">Building 1</p> 
<p style="text-align: center;">Building 3</p> 	<p style="text-align: center;">Building 4 (Bathroom, water saving)</p> 
<p style="text-align: center;">Building 1-11 (LED Lighting)</p>	



**Teaching rooms (Abis Campus, Alexandria University)**





All teaching rooms contains well equipped technological facilities (screens, data shows and white boards).



Green building implementation through the use of sun breakers in the SSP building at the Faculty of Engineering



Video Surveillance of all buildings



Smart screens are used in all lecture halls

**Link for Sustainable Development:** <https://alexu.edu.eg/index.php/en/sustainable-development>

<https://alexu.edu.eg/index.php/en/2015-11-24-10-38-07/ranking?id=6011>

<http://sustainability.alexu.edu.eg/>

**Additional evidence link:** <https://alexu.edu.eg/index.php/about-us-ar>

**Link for LED lighting:**

[https://alexu.edu.eg/index.php/?option=com\\_content&view=article&id=5935&catid=21&lang=ar-AA](https://alexu.edu.eg/index.php/?option=com_content&view=article&id=5935&catid=21&lang=ar-AA)

**Link for Solar Energy:**

[https://alexu.edu.eg/index.php/?option=com\\_content&view=article&id=5936&catid=21&lang=ar-AA](https://alexu.edu.eg/index.php/?option=com_content&view=article&id=5936&catid=21&lang=ar-AA)

**Link for Green University:**

[https://alexu.edu.eg/index.php/?option=com\\_content&view=article&id=5932&catid=21&lang=ar-AA](https://alexu.edu.eg/index.php/?option=com_content&view=article&id=5932&catid=21&lang=ar-AA)

## Mechanical Engineering Building (Silver)

LEED v4 for BD+C: New Construction and Major Renovation		Project Name: Mechanical Building	
Project Checklist		Date: 3/1/2020	
Version: 4.1		Name: Aydin Bahmani	
Version: 4.1		ID: 4018	
<b>2.1.3.0</b>	<b>Location and Transportation</b>	16	16
Y	LEED for Neighborhood Development Location	1	1
N	Green Land Proximity	2	2
Y	High Priority 20+	2	2
N	Dispersing Density and Density Jobs	2	2
N	Access to Quality Transit	2	2
N	Bicycle Facilities	2	2
N	Residential Parking Spaces	2	2
N	Open Streets	2	2
<b>6.2.2.0</b>	<b>Sustainable Sites</b>	10	10
Y	Construction Activity Pollution Prevention	1	1
Y	Site Assessment	1	1
Y	Site Development - Paved or Paved Similar	2	2
Y	Open Space	2	2
Y	Stormwater Management	2	2
Y	Heat Island Reduction	2	2
Y	Light Pollution Reduction	2	2
<b>2.1.7.0</b>	<b>Water Efficiency</b>	11	11
Y	Custom Water Use Reduction	1	1
Y	Indoor Water Use Reduction	2	2
Y	Recycling Water Use Reduction	2	2
Y	Outdoor Water Use Reduction	2	2
Y	Indoor Water Use Reduction	2	2
Y	Cooling Tower Water Use	2	2
Y	Water Metering	2	2
<b>13.2.0</b>	<b>Energy and Atmosphere</b>	33	33
Y	Fundamental Commissioning and Verification	1	1
Y	Minimum Energy Performance	1	1
Y	Building-Level Energy Modeling	1	1
Y	Power and Energy Performance	1	1
Y	Behavioral Commissioning	1	1
Y	Optimize Energy Performance	1	1
Y	Advanced Energy Modeling	1	1
Y	On-site Renewable Energy Production	1	1
Y	On-site Renewable Energy Production	1	1
Y	On-site Renewable Energy Production	1	1
Y	On-site Renewable Energy Production	1	1
<b>4.1.4.0</b>	<b>Regional Priority</b>	4	4
Y	Regional Priority - Specific Credit	1	1
Y	Regional Priority - Specific Credit	1	1
Y	Regional Priority - Specific Credit	1	1
Y	Regional Priority - Specific Credit	1	1
<b>13.1.3.0</b>	<b>Indoor Environmental Quality</b>	18	18
Y	Minimum Indoor Air Quality Performance	1	1
Y	Environmental Tobacco Smoke Control	1	1
Y	Low-Emitting Materials	1	1
Y	Construction Indoor Air Quality Management Plan	1	1
Y	Indoor Air Quality Assessment	1	1
Y	Thermal Comfort	1	1
Y	Lighting	1	1
Y	Daylight	1	1
Y	Acoustic Performance	1	1
<b>3.1.5.0</b>	<b>Indoor Air Quality</b>	6	6
Y	Low-emission	1	1
Y	LEED Accredited Professional	1	1
<b>4.1.3.0</b>	<b>Regional Priority</b>	1	1
Y	Regional Priority - Specific Credit	1	1
<b>13.1.3.0</b>	<b>Indoor Environmental Quality</b>	18	18
Y	Minimum Indoor Air Quality Performance	1	1
Y	Environmental Tobacco Smoke Control	1	1
Y	Low-Emitting Materials	1	1
Y	Construction Indoor Air Quality Management Plan	1	1
Y	Indoor Air Quality Assessment	1	1
Y	Thermal Comfort	1	1
Y	Lighting	1	1
Y	Daylight	1	1
Y	Acoustic Performance	1	1
<b>4.1.4.0</b>	<b>Regional Priority</b>	4	4
Y	Regional Priority - Specific Credit	1	1
Y	Regional Priority - Specific Credit	1	1
Y	Regional Priority - Specific Credit	1	1
Y	Regional Priority - Specific Credit	1	1



LEED v4 for BD+C: Schools  
Project Checklist

Y 2 N  
Credit Integrative Process 1

Project Name: Mechanical Building  
Date: 3/1/2020  
Name: Jaydas Bahnsasy  
ID: 4019

18	18	0	Location and Transportation	15
Y	11	11	LEED for Neighborhood Development Location	15
		N	Designate Land Protection	1
		1	High Priority Site	2
		3	Surrounding Density and Diverse Uses	5
		3	Access to Quality Transit	4
		N	Bicycle Facilities	1
		N	Reduced Parking Footprint	1
		N	Green Vehicles	1

6	6	0	Materials and Resources	13
Y	2	2	Storage and Collection of Recyclables	13
		2	Construction and Demolition Waste Management Planning	Required
		1	Building Life-Cycle Impact Reduction	5
		1	Building Product Disclosure and Optimization - Environmental Product Declarations	2
		1	Building Product Disclosure and Optimization - Sourcing of Raw Materials	2
		1	Building Product Disclosure and Optimization - Material Ingredients	2
		1	Construction and Demolition Waste Management	2

6	6	0	Sustainable Sites	12
Y	1	1	Construction Activity Pollution Prevention	12
		1	Environmental Site Assessment	Required
		1	Site Assessment	1
		1	Site Development - Protect or Restore Habitat	2
		1	Open Space	1
		1	Rainwater Management	3
		N	Heat Island Reduction	2
		N	Light Pollution Reduction	1
		1	Site Master Plan	1
		1	Joint Use of Facilities	1

13	13	0	Indoor Environmental Quality	16
Y	2	2	Minimum Indoor Air Quality Performance	16
		2	Environmental Tobacco Smoke Control	Required
		2	Minimum Acoustic Performance	Required
		2	Enhanced Indoor Air Quality Strategies	2
		1	Low-Emitting Materials	3
		2	Construction Indoor Air Quality Management Plan	1
		1	Indoor Air Quality Assessment	2
		1	Thermal Comfort	1
		1	Interior Lighting	2
		3	Daylight	3
		1	Quality Views	1
		N	Acoustic Performance	1

4	4	0	Water Efficiency	12
Y	1	1	Outdoor Water Use Reduction	12
		1	Indoor Water Use Reduction	Required
		1	Building-Level Water Metering	Required
		1	Outdoor Water Use Reduction	2
		3	Indoor Water Use Reduction	7
		N	Cooling Tower Water Use	2
		N	Water Metering	1

3	3	0	Innovation	6
Y	1	1	Innovation	6
		2	LEED Accredited Professional	5
		1	LEED Accredited Professional	1

13	13	0	Energy and Atmosphere	31
Y	1	1	Fundamental Commissioning and Verification	31
		1	Minimum Energy Performance	Required
		1	Building-Level Energy Metering	Required
		1	Fundamental Refrigerant Management	Required
		3	Enhanced Commissioning	5
		3	Optimize Energy Performance	16
		N	Advanced Energy Metering	1
		1	Demand Response	2
		1	Renewable Energy Production	3
		N	Enhanced Refrigerant Management	1
		N	Green Power and Carbon Offsets	2

4	4	0	Regional Priority	4
Y	1	1	Regional Priority: Specific Credit	4
		1	Regional Priority: Specific Credit	1
		1	Regional Priority: Specific Credit	1
		1	Regional Priority: Specific Credit	1

**67 67 0 TOTALS** Possible Points: 110  
 Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110



LEED v4 for BD+C: Data Centers  
Project Checklist

Y ? N  
1  
Integrative Process

Project Name:  
Date:

0	0	0	Location and Transportation	16
			LEED for Neighborhood Development Location	16
			Sensitive Land Protection	1
			High Priority Site	2
			Surrounding Density and Diverse Uses	5
			Access to Quality Transit	5
			Bicycle Facilities	1
			Reduced Parking Footprint	1
			Green Vehicles	1

0	0	0	Materials and Resources	13
			Storage and Collection of Recyclables	Required
			Construction and Demolition Waste Management Planning	Required
			Building Life-Cycle Impact Reduction	5
			Building Product Disclosure and Optimization - Environmental Product Declaration	2
			Building Product Disclosure and Optimization - Sourcing of Raw Materials	2
			Building Product Disclosure and Optimization - Material Ingredients	2
			Construction and Demolition Waste Management	2

0	0	0	Sustainable Sites	10
			Construction Activity Pollution Prevention	Required
			Site Assessment	1
			Site Development - Protected or Restore Habitat	2
			Open Space	1
			Rainwater Management	3
			Heat Island Reduction	2
			Light Pollution Reduction	1

0	0	0	Indoor Environmental Quality	16
			Minimum Indoor Air Quality Performance	Required
			Environmental Tobacco Smoke Control	Required
			Enhanced Indoor Air Quality Strategies	2
			Low-Emitting Materials	3
			Construction Indoor Air Quality Management Plan	1
			Indoor Air Quality Assessment	2
			Thermal Comfort	1
			Interior Lighting	2
			Daylight	3
			Quality Views	1
			Acoustic Performance	1

0	0	0	Water Efficiency	11
			Outdoor Water Use Reduction	Required
			Indoor Water Use Reduction	Required
			Building-Level Water Metering	Required
			Outdoor Water Use Reduction	2
			Indoor Water Use Reduction	6
			Cooling Tower Water Use	2
			Water Metering	1

0	0	0	Innovation	6
			Innovation	5
			LEED Accredited Professional	1

0	0	0	Energy and Atmosphere	33
			Fundamental Commissioning and Verification	Required
			Minimum Energy Performance	Required
			Building-Level Energy Metering	Required
			Fundamental Refrigerant Management	Required
			Enhanced Commissioning	6
			Optimizes Energy Performance	18
			Advanced Energy Metering	1
			Demand Response	2
			Renewable Energy Production	3
			Enhanced Refrigerant Management	1
			Green Power and Carbon Credits	2

0	0	0	Regional Priority	4
			Regional Priority: Specific Credit	1
			Regional Priority: Specific Credit	1
			Regional Priority: Specific Credit	1
			Regional Priority: Specific Credit	1

**0 0 0 TOTALS** Possible Points: 110  
Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110







LEED v4 for DD+C: Healthcare		Project Checklist	
Y	N	Y	N
<p><b>0 0 0 Location and Transportation</b></p> <p>Req 1 LEED for High-Rise/ Mid-Rise Certification</p> <p>Req 2 Sustainable Land Use</p> <p>Req 3 Access to Public Mass Transit</p> <p>Req 4 Access to Quality Mass Transit</p> <p>Req 5 Green Vehicle</p>			
3	0	3	0
<p><b>0 0 0 Sustainability Sites</b></p> <p>Req 1 Construction Activity Pollution Prevention</p> <p>Req 2 Environmental Site Assessment</p> <p>Req 3 Site Assessment</p> <p>Req 4 24-hr. Operational - Prebid or Precon Holders</p> <p>Req 5 Green Space</p> <p>Req 6 Regional Water Management</p> <p>Req 7 Heat Island Reduction</p> <p>Req 8 Light Pollution Reduction</p> <p>Req 9 Effects of Noise</p> <p>Req 10 Green Building Access</p>			
3	0	3	0
<p><b>0 0 0 Water Efficiency</b></p> <p>Req 1 Outdoor Water Use Reduction</p> <p>Req 2 Indoor Water Use Reduction</p> <p>Req 3 Water-Efficient Fixtures</p> <p>Req 4 Outdoor Water Use Reduction</p> <p>Req 5 Indoor Water Use Reduction</p> <p>Req 6 Cooling Tower Water Use</p> <p>Req 7 Water Recycling</p>			
11	0	11	0
<p><b>0 0 0 Energy and Atmosphere</b></p> <p>Req 1 Project's Carbon Footprint Reduction</p> <p>Req 2 Minimum Energy Performance</p> <p>Req 3 Superior Energy Rating</p> <p>Req 4 Regional Energy Management</p> <p>Req 5 Energy Commission</p> <p>Req 6 Greenhouse Gas Reporting</p> <p>Req 7 Advanced Energy Modeling</p> <p>Req 8 Greenhouse Gas</p> <p>Req 9 Renewable Energy Production</p> <p>Req 10 Regional Renewable Management</p> <p>Req 11 Green Design and Construction</p>			
53	0	53	0
<p><b>0 0 0 Materials and Resources</b></p> <p>Req 1 Source and Collection of Recycled Content</p> <p>Req 2 Construction and Demolition Waste Management Planning</p> <p>Req 3 Building LEED for Core and Shell</p> <p>Req 4 Building LEED for Core and Shell</p> <p>Req 5 Building LEED for Core and Shell</p> <p>Req 6 Building LEED for Core and Shell</p> <p>Req 7 Building LEED for Core and Shell</p> <p>Req 8 Building LEED for Core and Shell</p> <p>Req 9 Building LEED for Core and Shell</p> <p>Req 10 Building LEED for Core and Shell</p> <p>Req 11 Building LEED for Core and Shell</p>			
13	0	13	0
<p><b>0 0 0 Indoor Environmental Quality</b></p> <p>Req 1 Minimum 100% for Quality Performance</p> <p>Req 2 Performance Based Quality Control</p> <p>Req 3 Enhanced Indoor Air Quality Predictions</p> <p>Req 4 Low-Emitting Materials</p> <p>Req 5 Construction Material and Building Management Plan</p> <p>Req 6 Indoor Air Quality Assessment</p> <p>Req 7 Thermal Comfort</p> <p>Req 8 Interior Lighting</p> <p>Req 9 Daylight</p> <p>Req 10 Acoustic Performance</p> <p>Req 11 Acoustic Performance</p>			
15	0	15	0
<p><b>0 0 0 Innovation</b></p> <p>Req 1 LEED Accredited Professional</p>			
6	0	6	0
<p><b>0 0 0 Regional Priority</b></p> <p>Req 1 Regional Priority - Specific Credit</p> <p>Req 2 Regional Priority - Specific Credit</p> <p>Req 3 Regional Priority - Specific Credit</p> <p>Req 4 Regional Priority - Specific Credit</p>			
4	0	4	0
<p><b>0 0 0 TOTALS</b></p> <p>Points Available: 110</p>			

## Prep Building (Silver)







LEED v4 for BD+C: New Construction and Major Renovation		Project Name: preparatory building	
Project Checker:		Date:	
<p>Legend: <span style="color: green;">■</span> Yes <span style="color: yellow;">■</span> No <span style="color: orange;">■</span> Not Applicable</p>			
<b>15</b>	<b>0 0 0</b>	<b>9</b>	<b>0 0 0</b>
Location and Transportation	16	Water and Resources	13
LEED for Neighborhood Development Location	0	Storage and Collection of Recyclables	Required
1	Y	Construction and Operation Waste Management Planning	Required
2	Y	Building Life-Cycle Impact Reduction	5
3	Y	Building Product Disclosure and Optimization - Environmental Product Declarations	2
4	Y	Building Product Disclosure and Optimization - Sourcing of Raw Materials	2
5	Y	Building Product Disclosure and Optimization - Material Ingredients	2
6	Y	Construction and Operation Waste Management	2
7	Y		
8	Y		
9	Y		
10	Y		
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361	Y		



**LEED v4 for BD+C: Warehouses and Distribution Centers**  
Project Checked:

Project Name:  
Date:

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
<b>Location and Transportation</b>																																			
LEED for Neighborhood Development location																																			
Sustainable Lane Protection																																			
High Priority Site																																			
Surrounding Density and Theme Use																																			
Access to Quality Transit																																			
Bicycle Facilities																																			
Reduced Parking Footprint																																			
Green Vehicle																																			
<b>Water Efficiency</b>																																			
Construction Airgap Pollution Prevention																																			
Site Accessible																																			
Site Development - Paved or Steep Slope																																			
Open Space																																			
Runwater Management																																			
Heat Island Reduction																																			
Light Pollution Reduction																																			
<b>Energy and Atmosphere</b>																																			
Outdoor Water Use Reduction																																			
Building Level Water Metering																																			
Outdoor Water Use Reduction																																			
Water Meter Use Reduction																																			
Cooling Tower Water Use																																			
Water Fixing																																			
<b>Energy and Atmosphere</b>																																			
Fundamental Commissioning and Verification																																			
Minimum Energy Performance																																			
Building-Level Energy Metering																																			
Advanced Energy Metering																																			
Functional Performance Management																																			
Enhanced Commissioning																																			
Optimize Energy Performance																																			
Advanced Energy Metering																																			
Demand Response																																			
Renewable Energy Production																																			
Enhanced Performance Management																																			
Green Power and Carbon Choice																																			
<b>Materials and Resources</b>																																			
Storage and Collection of Recyclables																																			
Construction and Demolition Waste Management Planning																																			
Building Life-Cycle Impact Reduction																																			
Building Product Disclosure and Optimization - Environmental Product Declarations																																			
Building Product Disclosure and Optimization - Sourcing of Raw Materials																																			
Building Product Disclosure and Optimization - Material Ingredients																																			
Construction and Demolition Waste Management																																			
<b>Indoor Environmental Quality</b>																																			
Minimum Indoor Air Quality Performance																																			
Environmental Tobacco Smoke Control																																			
Enhanced Indoor Air Quality Strategies																																			
Low-Emitting Materials																																			
Construction Indoor Air Quality Management Plan																																			
Indoor Air Quality Assessment																																			
Thermal Comfort																																			
Visual Lighting																																			
Daylight																																			
Quality Views																																			
Acoustic Performance																																			
<b>Integration</b>																																			
LEED Accredited Professional																																			
<b>Regional Priority</b>																																			
Regional Priority Specific Credit																																			
Regional Priority Specific Credit																																			
Regional Priority Specific Credit																																			
Regional Priority Specific Credit																																			
<b>TOTAL S</b>																																			
Platinum 110																																			
Gold 80-99																																			
Silver 50-79																																			
Bronze 20-49																																			
Certified 0-19																																			

**LEED v4 for BD+C: Hospitality**  
Project Checklist

Project Name: \_\_\_\_\_  
Date: \_\_\_\_\_

Y	N	NA	Points
<b>0 0 0 Location and Transportation</b>			
Y			16
Y			70
Y			1
Y			2
Y			5
Y			0
Y			1
Y			1
Y			1
<b>0 0 0 Sustainable Sites</b>			
Y			10
Y			Required
Y			1
Y			2
Y			1
Y			3
Y			1
Y			2
<b>0 0 0 Water Efficiency</b>			
Y			11
Y			Required
Y			Required
Y			2
Y			4
Y			2
Y			1
<b>0 0 0 Energy and Atmosphere</b>			
Y			33
Y			Required
Y			8
Y			10
Y			1
Y			2
Y			1
Y			1
Y			2
<b>0 0 0 Materials and Resources</b>			
Y			15
Y			Required
Y			Required
Y			0
Y			0
Y			0
Y			2
Y			2
<b>0 0 0 Indoor Environmental Quality</b>			
Y			15
Y			Required
Y			Required
Y			2
Y			3
Y			1
Y			4
Y			2
Y			2
Y			2
Y			1
<b>0 0 0 Innovation</b>			
Y			6
Y			4
Y			4
<b>0 0 0 Regional Priority</b>			
Y			4
Y			1
Y			1
Y			1
Y			1
<b>TOTALS</b>			
			<b>119</b>
Credits: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110			Possible Points: 119



## **Admin Building (Not certified but can be with some modifications)**





Project Name:  
Date:

**LEED v4 for BD+C: Schools**  
Project Checklist

Y	T	M	Integration Points	Points
0	1	1	1	4
<b>0 1 1 1 Location and Transportation</b>				
Y	Y	Y	LEED for Neighborhood Development Location	10
Y	Y	Y	Service/Land Provision	10
Y	Y	Y	High Priority Site	2
Y	Y	Y	Surrounding Density and Diverse Uses	0
Y	Y	Y	Access to Quality Transit	4
Y	Y	Y	Bicycle Facilities	1
Y	Y	Y	Reduced Parking Footprint	1
Y	Y	Y	Green Vehicles	1
<b>0 1 1 1 Sustainable Sites</b>				
Y	Y	Y	Construction Activity Erosion Prevention	10
Y	Y	Y	Environmental Site Assessment	10
Y	Y	Y	Site Assessment	1
Y	Y	Y	Site Development - Paved or Paved/Grass	2
Y	Y	Y	Open Space	1
Y	Y	Y	Runwater Management	2
Y	Y	Y	Heat Island Reduction	2
Y	Y	Y	Light Pollution Reduction	1
Y	Y	Y	Site Water Plan	1
Y	Y	Y	Zero Landfill Practices	1
<b>0 1 1 1 Water Efficiency</b>				
Y	Y	Y	Outdoor Water Use Reduction	10
Y	Y	Y	Indoor Water Use Reduction	10
Y	Y	Y	Building-Level Water Metering	2
Y	Y	Y	Outdoor Water Use Reduction	7
Y	Y	Y	Indoor Water Use Reduction	2
Y	Y	Y	Cooling Tower Water Use	1
Y	Y	Y	Water Metering	1
<b>0 1 1 1 Energy and Atmosphere</b>				
Y	Y	Y	Functional Commissioning and Verification	10
Y	Y	Y	Minimum Energy Performance	10
Y	Y	Y	Building-Level Energy Metering	10
Y	Y	Y	Functional Commissioning Management	10
Y	Y	Y	Enhanced Commissioning	0
Y	Y	Y	Optimize Energy Performance	10
Y	Y	Y	Advanced Energy Modeling	1
Y	Y	Y	Demands Response	0
Y	Y	Y	Renewable Energy Production	2
Y	Y	Y	Enhanced Subsequent Management	1
Y	Y	Y	Green Power and Carbon Offset	2
<b>0 1 1 1 Materials and Resources</b>				
Y	Y	Y	Storage and Collection of Recyclables	10
Y	Y	Y	Construction and Demolition Waste Management Planning	10
Y	Y	Y	Building Life-Cycle Impact Reduction	0
Y	Y	Y	Building Product Disclosure and Optimization - Environmental Product Declarations	2
Y	Y	Y	Building Product Disclosure and Optimization - Sourcing of Raw Materials	2
Y	Y	Y	Building Product Disclosure and Optimization - Material Ingredients	2
Y	Y	Y	Construction and Demolition Waste Management	2
<b>0 1 1 1 Indoor Environmental Quality</b>				
Y	Y	Y	Minimum Indoor Air Quality Performance	10
Y	Y	Y	Environmental Tobacco Smoke Control	10
Y	Y	Y	Minimum Acoustic Performance	10
Y	Y	Y	Enhanced Indoor Air Quality Strategies	2
Y	Y	Y	Low-Emitting Materials	2
Y	Y	Y	Construction Indoor Air Quality Management Plan	1
Y	Y	Y	Indoor Air Quality Assessment	2
Y	Y	Y	Thermal Comfort	1
Y	Y	Y	Acoustic Performance	2
Y	Y	Y	Daylight	2
Y	Y	Y	Quality Views	1
Y	Y	Y	Acoustic Performance	1
<b>0 1 1 1 Integration</b>				
Y	Y	Y	Innovation	6
Y	Y	Y	LEED Accredited Professionals	2
<b>0 1 1 1 Regional Priority</b>				
Y	Y	Y	Regional Priority - Specific Credit	7
Y	Y	Y	Regional Priority - Specific Credit	4
Y	Y	Y	Regional Priority - Specific Credit	4
Y	Y	Y	Regional Priority - Specific Credit	1
<b>0 1 1 1 TOTALS</b>				
Credits: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110				<b>Possible Points: 140</b>



**LEED v4 for BD+C: Data Centers**  
Project Checklist

Project Name: \_\_\_\_\_  
Date: \_\_\_\_\_

Score	Y	P	N	Integrate Process	Points
48	0	0	0		48
<b>Location and Transportation</b>					
0	0	0	0		0
1	0	0	0		1
2	0	0	0		2
3	0	0	0		3
4	0	0	0		4
5	0	0	0		5
6	0	0	0		6
7	0	0	0		7
8	0	0	0		8
9	0	0	0		9
10	0	0	0		10
<b>Sustainable Sites</b>					
0	0	0	0		0
1	0	0	0		1
2	0	0	0		2
3	0	0	0		3
4	0	0	0		4
5	0	0	0		5
6	0	0	0		6
7	0	0	0		7
8	0	0	0		8
9	0	0	0		9
10	0	0	0		10
<b>Water Efficiency</b>					
0	0	0	0		0
1	0	0	0		1
2	0	0	0		2
3	0	0	0		3
4	0	0	0		4
5	0	0	0		5
6	0	0	0		6
7	0	0	0		7
8	0	0	0		8
9	0	0	0		9
10	0	0	0		10
<b>Energy and Atmosphere</b>					
0	0	0	0		0
1	0	0	0		1
2	0	0	0		2
3	0	0	0		3
4	0	0	0		4
5	0	0	0		5
6	0	0	0		6
7	0	0	0		7
8	0	0	0		8
9	0	0	0		9
10	0	0	0		10
<b>Materials and Resources</b>					
0	0	0	0		0
1	0	0	0		1
2	0	0	0		2
3	0	0	0		3
4	0	0	0		4
5	0	0	0		5
6	0	0	0		6
7	0	0	0		7
8	0	0	0		8
9	0	0	0		9
10	0	0	0		10
<b>Indoor Environmental Quality</b>					
0	0	0	0		0
1	0	0	0		1
2	0	0	0		2
3	0	0	0		3
4	0	0	0		4
5	0	0	0		5
6	0	0	0		6
7	0	0	0		7
8	0	0	0		8
9	0	0	0		9
10	0	0	0		10
<b>Integration</b>					
0	0	0	0		0
1	0	0	0		1
2	0	0	0		2
3	0	0	0		3
4	0	0	0		4
5	0	0	0		5
6	0	0	0		6
7	0	0	0		7
8	0	0	0		8
9	0	0	0		9
10	0	0	0		10
<b>Regional Priority</b>					
0	0	0	0		0
1	0	0	0		1
2	0	0	0		2
3	0	0	0		3
4	0	0	0		4
5	0	0	0		5
6	0	0	0		6
7	0	0	0		7
8	0	0	0		8
9	0	0	0		9
10	0	0	0		10
<b>TOTALS</b>					
0	0	0	0		0
1	0	0	0		1
2	0	0	0		2
3	0	0	0		3
4	0	0	0		4
5	0	0	0		5
6	0	0	0		6
7	0	0	0		7
8	0	0	0		8
9	0	0	0		9
10	0	0	0		10
<b>LEED Accredited Professional</b>					
0	0	0	0		0
1	0	0	0		1
2	0	0	0		2
3	0	0	0		3
4	0	0	0		4
5	0	0	0		5
6	0	0	0		6
7	0	0	0		7
8	0	0	0		8
9	0	0	0		9
10	0	0	0		10

Continued: 40 to 49 points; 50 to 59 points; 60 to 69 points; 70 to 79 points; 80 to 89 points; 90 to 99 points; 100 to 109 points; 110 to 119 points

**LEED v4 for BD+C: Warehouses and Distribution Centers**  
Project Checklist

Project Name: \_\_\_\_\_  
Date: \_\_\_\_\_

Y	N	NA	Points
16	4		
<b>8.0.0 Location and Transportation</b>			
16	11		
17	1		
18	2		
19	4		
20	4		
21	1		
22	1		
23	1		
<b>8.0.0 Sustainable Sites</b>			
24	10		
25	1		
26	2		
27	2		
28	3		
29	2		
30	1		
<b>8.0.0 Water Efficiency</b>			
31	11		
32	1		
33	1		
34	2		
35	4		
36	2		
<b>8.0.0 Energy and Atmosphere</b>			
37	33		
38	1		
39	1		
40	1		
41	1		
42	1		
43	1		
44	1		
45	1		
46	1		
47	1		
48	1		
49	1		
50	1		
51	1		
52	1		
53	1		
54	1		
55	1		
56	1		
57	1		
58	1		
59	1		
60	1		
61	1		
62	1		
63	1		
64	1		
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67	1		
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72	1		
73	1		
74	1		
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89	1		
90	1		
91	1		
92	1		
93	1		
94	1		
95	1		
96	1		
97	1		
98	1		
99	1		
100	1		
<b>9.0.0 Innovation</b>			
101	0		
102	4		
103	4		
104	4		
105	4		
106	4		
107	4		
108	4		
109	4		
110	4		
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195	4		
196	4		
197	4		
198	4		
199	4		
200	4		

Credits: 43 to 44 points, Silver; 50 to 59 points, Gold; 60 to 79 points, Platinum; 80 to 110



LEED v4 for BD+C: Hospitality  
Project Checklist

Project Name:  
Date:

Y	T	N	Score
			1
<b>Integrate Process</b>			
0	0	0	16
<b>Location and Transportation</b>			
Y			15
			1
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			200



## **Electrical Engineering Building (Not certified but can be with some modifications)**

**LEED v4 for BD+C: New Construction and Major Renovation**  
Project Checklist

Project Name: **Faculty Building**  
Date: 1-3-2020

Code	Requirement	Y	N	NA	Reqd
<b>1.0 Site</b>					
<b>1.1.14 Location and Transportation</b>					
1.1.14.1	LEED for Neighborhood Development Credit	Y			13
1.1.14.2	Service Land Provision	Y			1
1.1.14.3	High Priority Site	Y			2
1.1.14.4	Sustaining Density and Quality Urban	Y			9
1.1.14.5	Adjacent to Quality Transit	Y			9
1.1.14.6	Bicycle Facilities	Y			1
1.1.14.7	Alternate Parking Programs	Y			1
1.1.14.8	Green Vehicles	Y			1
<b>2.0 Water</b>					
<b>2.1.1.5 Stormwater</b>					
2.1.1.5.1	Construction Activity Pollution Prevention	Y			Required
2.1.1.5.2	Site Assessment	Y			1
2.1.1.5.3	Site Development - Protect or Restore Habitat	Y			2
2.1.1.5.4	Open Space	Y			1
2.1.1.5.5	Stormwater Management	Y			2
2.1.1.5.6	Local Urban Pollution	Y			2
2.1.1.5.7	Light Pollution Reduction	Y			1
<b>2.2.1.6 Water Efficiency</b>					
2.2.1.6.1	Outdoor Water Use Reduction	Y			Required
2.2.1.6.2	Water Meter Use Reduction	Y			Required
2.2.1.6.3	Subjunctive Water Metering	Y			Required
2.2.1.6.4	Outdoor Water Use Reduction	Y			2
2.2.1.6.5	Water Meter Use Reduction	Y			2
2.2.1.6.6	Green Water Use	Y			1
<b>3.0 Energy and Atmosphere</b>					
3.1	Energy Performance	Y			13
3.1.1	Energy Performance	Y			Required
3.1.2	Minimum Energy Performance	Y			Required
3.1.3	Building-Level Energy Modeling	Y			Required
3.1.4	Advanced Building Management	Y			Required
3.1.5	Advanced Commissioning	Y			0
3.1.6	Optimize Energy Performance	Y			18
3.1.7	Advanced Energy Modeling	Y			1
3.1.8	Greenhouse Gas Emissions	Y			2
3.1.9	Renewable Energy Production	Y			2
3.1.10	Advanced Refrigerant Management	Y			1
3.1.11	Green Power and Carbon Offset	Y			2
<b>4.0 Indoor Environmental Quality</b>					
4.1	Indoor Environmental Quality	Y			16
4.1.1	Minimum	Y			Required
4.1.2	Minimum Indoor Air Quality Performance	Y			Required
4.1.3	Environmental Tobacco Smoke Control	Y			Required
4.1.4	Low-Volatile Organic Compound Control	Y			2
4.1.5	Low-Emitting Materials	Y			2
4.1.6	Construction Indoor Air Quality Management Plan	Y			1
4.1.7	Indoor Air Quality Assessment	Y			2
4.1.8	Thermal Comfort	Y			2
4.1.9	Acoustic Performance	Y			2
4.1.10	Daylight	Y			2
4.1.11	Quality Views	Y			1
4.1.12	Acoustic Performance	Y			1
<b>5.0 Innovation</b>					
5.0	Innovation	Y			8
5.0.1	LEED Accredited Professionals	Y			1
<b>6.0 Regional Priority</b>					
6.0.1	Regional Priority	Y			4
6.0.2	Regional Priority	Y			1
6.0.3	Regional Priority	Y			1
6.0.4	Regional Priority	Y			1
6.0.5	Regional Priority	Y			1
<b>TOTALS</b>					
231	116	62	0	0	118
Credits: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110					

**LEED v4 for BD+C: Core and Shell**  
Project Checklist

Project Name: \_\_\_\_\_  
Date: \_\_\_\_\_

Y	T	M	Score	Requirement	Points	Requirement	Points
0	0	0	20	<b>Location and Transportation</b>	14	<b>Materials and Resources</b>	14
0	0	0	20	LEED for HighPerformance Development Location	20	Storage and Collection of Recyclables	Required
0	0	0	2	Sensitive Land Protection	2	Construction and Demolition Waste Management Planning	Required
0	0	0	2	High Quality Bus	2	Building Life-Cycle Impact Reduction	0
0	0	0	6	Constructing Density and Diverse Uses	6	Building Product Disclosure and Optimization - Environmental Product Declarations	2
0	0	0	6	Access to Quality Transit	6	Building Product Disclosure and Optimization - Sourcing of Raw Materials	2
0	0	0	1	Bicycle-Parked	1	Building Product Disclosure and Optimization - Material Efficiency	2
0	0	0	1	Secured Parking Program	1	Construction and Demolition Waste Management	1
0	0	0	1	Green Vehicles	1		
0	0	0	14	<b>Sustainable Sites</b>	14	<b>Indoor Environmental Quality</b>	10
0	0	0	14	Construction Activity Pollution Prevention	14	Minimum IAQV or Quality Performance	Required
0	0	0	1	Site Development	1	Environmental Tobacco Smoke Control	Required
0	0	0	2	Site Development - Paved or Paved-Adjoint	2	Enhanced Indoor Air Quality Strategies	2
0	0	0	1	Open Space	1	Low-Emitting Materials	3
0	0	0	2	Resource Management	2	Construction Indoor Air Quality Management Plan	1
0	0	0	2	Hourly Sound Reduction	2	Daylight	2
0	0	0	2	Light Pollution Reduction	2	Quality Views	1
0	0	0	1	Termite Design and Construction Guidelines	1		
0	0	0	14	<b>Water Efficiency</b>	14	<b>Innovation</b>	6
0	0	0	14	Outdoor Water Use Reduction	14	Innovation	6
0	0	0	1	Indoor Water Use Reduction	1	LEED Accredited Professional	1
0	0	0	1	Building-Level Water Metering	1		
0	0	0	2	Outdoor Water Use Reduction	2	<b>Regional Priority</b>	4
0	0	0	2	Indoor Water Use Reduction	2	Regional Priority Specific Credit	1
0	0	0	2	Cooling Tower Water Use	2	Regional Priority Specific Credit	1
0	0	0	1	Water Metering	1	Regional Priority Specific Credit	1
0	0	0	30	<b>Energy and Atmosphere</b>	30	<b>TOTALS</b>	<b>Possible Points: 110</b>
0	0	0	30	Financial Commissioning and Verification	30	Continued: 40 to 40 points, Silver: 50 to 50 points, Gold: 60 to 70 points, Platinum: 80 to 110	
0	0	0	18	Minimum Energy Performance	18		
0	0	0	12	Building-Level Energy Modeling	12		
0	0	0	12	Financial Analytics Management	12		
0	0	0	0	Enforced Commissioning	0		
0	0	0	18	Optimize Energy Performance	18		
0	0	0	1	Advanced Energy Modeling	1		
0	0	0	2	Demand Response	2		
0	0	0	2	Renewable Energy Production	2		
0	0	0	1	Enhanced Refrigerant Management	1		
0	0	0	2	Green Power and Carbon Offset	2		

**LEED v4 for ED+C Schools**  
Project Checklist

Project Name: \_\_\_\_\_  
Date: \_\_\_\_\_

Y	N	P	Score
4	0	0	4
<b>0 0 0 Location and Transportation</b>			
Y	Y	Y	15
Y	Y	Y	10
Y	Y	Y	2
Y	Y	Y	2
Y	Y	Y	2
Y	Y	Y	4
Y	Y	Y	4
Y	Y	Y	1
Y	Y	Y	1
<b>0 0 0 Sustainable Sites</b>			
Y	Y	Y	12
Y	Y	Y	12
Y	Y	Y	1
Y	Y	Y	2
Y	Y	Y	2
Y	Y	Y	2
Y	Y	Y	2
Y	Y	Y	1
Y	Y	Y	1
Y	Y	Y	1
<b>0 0 0 Water Efficiency</b>			
Y	Y	Y	12
Y	Y	Y	12
Y	Y	Y	2
Y	Y	Y	2
Y	Y	Y	2
Y	Y	Y	1
<b>0 0 0 Energy and Atmosphere</b>			
Y	Y	Y	26
Y	Y	Y	26
Y	Y	Y	4
Y	Y	Y	4
Y	Y	Y	1
Y	Y	Y	1
Y	Y	Y	1
Y	Y	Y	1
Y	Y	Y	2
<b>0 0 0 Materials and Resources</b>			
Y	Y	Y	13
Y	Y	Y	13
Y	Y	Y	1
Y	Y	Y	2
Y	Y	Y	2
Y	Y	Y	2
Y	Y	Y	2
Y	Y	Y	2
<b>0 0 0 Indoor Environmental Quality</b>			
Y	Y	Y	15
Y	Y	Y	15
Y	Y	Y	3
Y	Y	Y	3
Y	Y	Y	2
Y	Y	Y	2
Y	Y	Y	1
Y	Y	Y	2
Y	Y	Y	2
Y	Y	Y	2
Y	Y	Y	1
Y	Y	Y	1
Y	Y	Y	1
<b>0 0 0 Regional Priority</b>			
Y	Y	Y	4
Y	Y	Y	1
Y	Y	Y	1
Y	Y	Y	1
<b>0 0 0 TOTALS</b>			
Y	Y	Y	110
Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110			









