

Load Data set:

Total energy demand of UET Peshawar KOHAT Campus is shown below; the most probably used appliances and their maximum operation according to the need of campus

S.NO	Appliances	Wattage	No in use
1	Fans	80	73
2	Light	50	120
3	Water pump	750	1
4	Refrigerator	180	4
5	Ac	2000	30
6	Pc	200	55
7	Printer	450	4
8	Laptop charger	40	30
9	Geyser	1500	5
10	heater	1500	5

Annual load profile:

Monthly	Fan	Light	Water pump	Refrigerator	Ac	Pc	Laptop Charger	Printer	heater	geyser	total
January		874	132	241.92		412	102.4	115.2	4734	1626	8237.52
February		874	132	241.92		412	102.4	115.2	2520	1392	5789.52
March	922.2	874	132	241.92	384	412	102.4	115.2			3183.76
April	922.2	874	132	241.92		412	102.4	115.2			2799.76
May	1448	874	132	241.92	3024	412	102.4	115.2			6349.52
June	920	874	132	241.92	2064	412	102.4	115.2			4861.52
July	920	874	132	241.92	1744	412	102.4	115.2			4541.52
August	1241	874	132	241.92	384	412	102.4	115.2			3502.32
September	1241	874	132	241.92	384	412	102.4	115.2			3502.32
October	922.2	874	132	241.92		412	102.4	115.2			2799.72
November		874	132	241.92		412	102.4	115.2	1122	1122	4121.52
December		874	132	241.92		412	102.4	115.2	2520	1392	5789.52
Total	5770	10488	1584	2903.04	7984	4944	1228.8	1382.4	10896	5532	55478.52

January:

Classes day:

Appliance time	heater	Light	Water pump	Refrigerator	Geyser	Computer	Laptop charger	Printer	Total
1:00 TO 2:00	6	1			6				13
2:00 TO 3:00	6	1			6				13
3:00 TO 4:00	6	1			6				13
4:00 TO 5:00	6	1		0.72	6				13.72
5:00 TO 6:00	6	1		0.72	6				13.72
6:00 TO 7:00	9	0.75	1.5	0.72	6				17.97
7:00TO 8:00	12	0.75	1.5	0.72					14.97
8:00 TO 9:00	12	0.75		0.72		2	0.8		16.27
9:00TO 10:00	12	2		0.72		2	0.8	3.6	21.12
10:00 TO 11:00	12	2		0.72	3	2	0.8		20.52
11:00 TO 12:00	12	2		0.72	3	2	0.8		20.52
12:00 TO 1:00	12	2		0.72	3	2	0.8		20.52
1:00 TO 2:00	12	2		0.72		2	0.8	3.6	21.12
2:00 TO 3:00	12	2		0.72		2	0.8		17.52
3:00TO 4:00	12	2		0.72		2	0.8		17.52
4:00 TO 5:00	12	0.75							12.75
5:00 TO 6:00	9	0.75							9.75
6:00 TO 7:00	9	0.75							9.75
7:00 TO 8:00	9	2							11
8:00 TO 9:00	9	2	1.5						12.5
9:00 TO 10:00	9	2	1.5		6				18.5
10:00 TO 11:00	6	1			6				13
11:00 TO 12:00	6	1			6				13
12:00 TO 1:00	6	1			6				13
TOTAL	222	32.5	6	8.64	69	16	6.4	7.2	367.74

Weekend:

weekend									
1:00 TO 2:00	3	1			3				7
2:00 TO 3:00	3	1			3				7
3:00 TO 4:00	3	1			3				7
4:00 TO 5:00	3	1			3				7
5:00 TO 6:00	3	1			3				7
6:00 TO 7:00	3	1			3				7
7:00 TO 8:00	6	1.5	1.5						9
8:00 TO 9:00	6	1.5		0.72		1			9.22
9:00 TO 10:00	6	1.5		0.72		1			9.22
10:00 TO 11:00	6	1.5		0.72		1			9.22
11:00 TO 12:00	6	1.5		0.72		1			9.22
12:00 TO 1:00	6	1.5		0.72	1.5	1			10.72
1:00 TO 2:00	4.5	1.5		0.72	1.5	1			9.22
2:00TO 3:00	4.5	1.5		0.72	1.5	1			9.22
3:00 TO 4:00	4.5	1.5		0.72	1.5	1			9.22
4:00 TO 5:00	4.5	1.5		0.72	1.5	1			9.22
5:00 TO 6:00	4.5	1.5		0.72	1.5				8.22
6:00 TO 7:00	1.5	1		0.72	1.5				4.72
7:00 TO 8:00	1.5	1	1.5	0.72	1.5				6.22
8:00 TO 9:00	3	1			1.5				5.5
9:00 TO 10:00	3	1			3				7
10:00 TO 11:00	3	1			3				7
11:00 TO 12:00	3	1			3				7
12:00 TO 1:00	3	1			3				7
	94.5	29.5	3	8.64	43.5	9			188.14

Monthly Profile**Total week power:**

Total week power=working days' power*4+weekend days' power*3

Total week power=1470.96 + 564.42

Total week power=2035.38

Monthly power:

Total monthly power=2035.38*4

Total monthly power=8141.52

February and December:

Classes day:

Appliance time	heater	Light	Water pump	Refrigerator	Geyser	Computer	Laptop charger	Printer	Total
1:00 TO 2:00	3	1			6				10
2:00 TO 3:00	3	1			6				10
3:00 TO 4:00	3	1			6				10
4:00 TO 5:00	6	1		0.72	6				13.72
5:00 TO 6:00	6	1		0.72	6				13.72
6:00 TO 7:00	6	0.75	1.5	0.72	6				14.97
7:00TO 8:00	6	0.75		0.72					7.47
8:00 TO 9:00	6	0.75		0.72		2	0.8		10.27
9:00TO 10:00	9	2		0.72		2	0.8	3.6	18.12
10:00 TO 11:00	9	2		0.72		2	0.8		14.52
11:00 TO 12:00	9	2		0.72		2	0.8		14.52
12:00 TO 1:00	9	2		0.72		2	0.8		14.52
1:00 TO 2:00	9	2		0.72		2	0.8	3.6	18.12
2:00 TO 3:00	6	2		0.72		2	0.8		11.52
3:00TO 4:00	3	2		0.72		2	0.8		8.52
4:00 TO 5:00	3	0.75							3.75
5:00 TO 6:00	3	0.75							3.75
6:00 TO 7:00	3	0.75							3.75
7:00 TO 8:00	3	2							5
8:00 TO 9:00	6	2	1.5						9.5
9:00 TO 10:00	6	2			6				14
10:00 TO 11:00	3	1			6				10
11:00 TO 12:00	3	1			6				10
12:00 TO 1:00	3	1			6				10
TOTAL	126	32.5	3	8.64	60	16	6.4	7.2	259.74

Weekend:

1:00 TO 2:00	1.5	1			3				5.5
2:00 TO 3:00	1.5	1			3				5.5
3:00 TO 4:00	1.5	1			3				5.5
4:00 TO 5:00	1.5	1			3				5.5
5:00 TO 6:00	1.5	1			3				5.5
6:00 TO 7:00	1.5	1			3				5.5
7:00 TO 8:00	3	1.5	1.5						6
8:00 TO 9:00	3	1.5		0.72		1			6.22
9:00 TO 10:00	3	1.5		0.72		1			6.22
10:00 TO 11:00	3	1.5		0.72		1			6.22
11:00 TO 12:00	3	1.5		0.72		1			6.22
12:00 TO 1:00	3	1.5		0.72		1			6.22
1:00 TO 2:00	1.5	1.5		0.72		1			4.72
2:00 TO 3:00	1.5	1.5		0.72		1			4.72
3:00 TO 4:00	1.5	1.5		0.72		1			4.72
4:00 TO 5:00	1.5	1.5		0.72		1			4.72
5:00 TO 6:00	1.5	1.5		0.72	1.5				5.22
6:00 TO 7:00		1		0.72	1.5				3.22
7:00 TO 8:00		1	1.5	0.72	1.5				4.72
8:00 TO 9:00	1.5	1			1.5				4
9:00 TO 10:00	1.5	1			3				5.5
10:00 TO 11:00	1.5	1			3				5.5
11:00 TO 12:00	1.5	1			3				5.5
12:00 TO 1:00	1.5	1			3				5.5
	42	29.5	3	8.64	36	9			128.14

Monthly Profile**Total week power:**

Total week power=working days' power*4+weekend days' power*3

Total week power=1038.96 + 384.42

Total week power=1423.38

Monthly power:

Total monthly power=1423.38*4

Total monthly power=5693.52

March:

Classes Day:

Appliance time	Fan	Light	Water pump	Refrigerator	AC	Computor	Laptop charger	Printer	Total
1:00 TO 2:00	1.6	1							2.6
2:00 TO 3:00	1.6	1							2.6
3:00 TO 4:00	1.6	1							2.6
4:00 TO 5:00	1.6	1		0.72					3.32
5:00 TO 6:00	1.6	1		0.72					3.32
6:00 TO 7:00	1.2	0.75	1.5	0.72					4.17
7:00TO 8:00	1.2	0.75		0.72					2.67
8:00 TO 9:00	1.2	0.75		0.72	3	2	0.8		8.47
9:00TO 10:00	2.4	2		0.72	3	2	0.8	3.6	14.52
10:00 TO 11:00	2.4	2		0.72	3	2	0.8		10.92
11:00 TO 12:00	2.4	2		0.72	3	2	0.8		10.92
12:00 TO 1:00	2.4	2		0.72	3	2	0.8		10.92
1:00 TO 2:00	2.4	2		0.72	3	2	0.8	3.6	14.52
2:00 TO 3:00	2.4	2		0.72	3	2	0.8		10.92
3:00TO 4:00	2.4	2		0.72	3	2	0.8		10.92
4:00 TO 5:00	1.2	0.75							1.95
5:00 TO 6:00	1.2	0.75							1.95
6:00 TO 7:00	1.2	0.75							1.95
7:00 TO 8:00	1.2	2							3.2
8:00 TO 9:00	1.6	2	1.5						5.1
9:00 TO 10:00	1.6	2							3.6
10:00 TO 11:00	1.6	1							2.6
11:00 TO 12:00	1.6	1							2.6
12:00 TO 1:00	1.6	1							2.6
TOTAL	41.2	32.5	6	8.64	24	16	6.4	7.2	138.94

Weekend:

1:00 TO 2:00	1.2	1							2.2
2:00 TO 3:00	1.2	1							2.2
3:00 TO 4:00	1.2	1							2.2
4:00 TO 5:00	1.2	1							2.2
5:00 TO 6:00	1.2	1							2.2
6:00 TO 7:00	1.2	1				1			3.2
7:00 TO 8:00	0.64	1.5	1.5			1			4.64
8:00 TO 9:00	0.64	1.5		0.72		1			3.86
9:00 TO 10:00	0.64	1.5		0.72		1			3.86
10:00 TO 11:00	0.8	1.5		0.72		1			4.02
11:00 TO 12:00	0.8	1.5		0.72		1			4.02
12:00 TO 1:00	0.8	1.5		0.72		1			4.02
1:00 TO 2:00	0.8	1.5		0.72		1			4.02
2:00 TO 3:00	0.8	1.5		0.72		1			4.02
3:00 TO 4:00	0.8	1.5		0.72		1			4.02
4:00 TO 5:00	0.64	1.5		0.72		1			3.86
5:00 TO 6:00	0.64	1.5		0.72		1			3.86
6:00 TO 7:00	0.64	1		0.72		1			3.36
7:00 TO 8:00	0.64	1	1.5	0.72		1			4.86
8:00 TO 9:00	0.64	1							1.64
9:00 TO 10:00	1.2	1							2.2
10:00 TO 11:00	1.2	1							2.2
11:00 TO 12:00	1.2	1							2.2
12:00 TO 1:00	1.2	1							2.2
	21.92	29.5	3	8.64	0	14			77

Monthly Profile**Total week power:**

Total week power=working days' power*4+weekend days' power*3

Total week power=555.76 + 231

Total week power=786.76

Monthly power:

Total monthly power=786.76*4

Total monthly power=3147.04

April and October:

Classes day:

Appliance time	Fan	Light	Water pump	Refrigerator	AC	Computer	Laptop charger	Printer	Total
1:00 TO 2:00	1.6	1							2.6
2:00 TO 3:00	1.6	1							2.6
3:00 TO 4:00	1.6	1							2.6
4:00 TO 5:00	1.6	1		0.72					3.32
5:00 TO 6:00	1.6	1		0.72					3.32
6:00 TO 7:00	1.2	0.75	1.5	0.72					4.17
7:00TO 8:00	1.2	0.75		0.72					2.67
8:00 TO 9:00	1.2	0.75		0.72		2	0.8		5.47
9:00TO 10:00	2.4	2		0.72		2	0.8	3.6	11.52
10:00 TO 11:00	2.4	2		0.72		2	0.8		7.92
11:00 TO 12:00	2.4	2		0.72		2	0.8		7.92
12:00 TO 1:00	2.4	2		0.72		2	0.8		7.92
1:00 TO 2:00	2.4	2		0.72		2	0.8	3.6	11.52
2:00 TO 3:00	2.4	2		0.72		2	0.8		7.92
3:00TO 4:00	2.4	2		0.72		2	0.8		7.92
4:00 TO 5:00	1.2	0.75							1.95
5:00 TO 6:00	1.2	0.75							1.95
6:00 TO 7:00	1.2	0.75							1.95
7:00 TO 8:00	1.2	2							3.2
8:00 TO 9:00	1.6	2	1.5						5.1
9:00 TO 10:00	1.6	2							4.6
10:00 TO 11:00	1.6	1							2.6
11:00 TO 12:00	1.6	1							2.6
12:00 TO 1:00	1.6	1							2.6
TOTAL	41.2	32.5	6	8.64	0	16	6.4	7.2	114.94

Weekend:

1:00 TO 2:00	1.2	1							2.2
2:00 TO 3:00	1.2	1							2.2
3:00 TO 4:00	1.2	1							2.2
4:00 TO 5:00	1.2	1							2.2
5:00 TO 6:00	1.2	1							2.2
6:00 TO 7:00	1.2	1							2.2
7:00 TO 8:00	0.64	1.5	1.5						3.64
8:00 TO 9:00	0.64	1.5		0.72		1			3.86
9:00 TO 10:00	0.64	1.5		0.72		1			3.86
10:00 TO 11:00	0.8	1.5		0.72		1			4.02
11:00 TO 12:00	0.8	1.5		0.72		1			4.02
12:00 TO 1:00	0.8	1.5		0.72		1			4.02
1:00 TO 2:00	0.8	1.5		0.72		1			4.02
2:00 TO 3:00	0.8	1.5		0.72		1			4.02
3:00 TO 4:00	0.8	1.5		0.72		1			4.02
4:00 TO 5:00	0.64	1.5		0.72		1			3.86
5:00 TO 6:00	0.64	1.5		0.72					2.86
6:00 TO 7:00	0.64	1		0.72					2.36
7:00 TO 8:00	0.64	1	1.5	0.72					3.86
8:00 TO 9:00	0.64	1							1.64
9:00 TO 10:00	1.2	1							2.2
10:00 TO 11:00	1.2	1							2.2
11:00 TO 12:00	1.2	1							2.2
12:00 TO 1:00	1.2	1							2.2
	21.9 2	29.5	3	8.64	0	9			72.06

Monthly Profile**Total week power:**

Total week power=working days' power*4+weekend days' power*3

Total week power=459.74 + 216.18

Total week power=675.94

Monthly power:

Total monthly power=675.94*4

Total monthly power=2703.76

May:

Classes day:

Appliance time	Fan	Light	Water pump	Refrigerator	AC	Computer	Laptop charger	Printer	Total
1:00 TO 2:00	3.2	1			6				10.2
2:00 TO 3:00	3.2	1			6				10.2
3:00 TO 4:00	3.2	1			6				10.2
4:00 TO 5:00	3.2	1			6				10.2
5:00 TO 6:00	3.2	1		0.72					4.92
6:00 TO 7:00	2.4	0.75	1.5	0.72					5.37
7:00TO 8:00	2.4	0.75		0.72					3.87
8:00 TO 9:00	2.4	0.75		0.72	12	2	0.8		18.67
9:00TO 10:00	3.2	2		0.72	12	2	0.8	3.6	24.32
10:00 TO 11:00	3.2	2		0.72	12	2	0.8		20.72
11:00 TO 12:00	3.2	2		0.72	12	2	0.8		20.72
12:00 TO 1:00	3.2	2		0.72	12	2	0.8		20.72
1:00 TO 2:00	3.2	2		0.72	12	2	0.8	3.6	24.32
2:00 TO 3:00	3.2	2		0.72	12	2	0.8		20.72
3:00TO 4:00	3.2	2		0.72	12	2	0.8		20.72
4:00 TO 5:00	1.6	0.75							2.35
5:00 TO 6:00	1.6	0.75		0.72					3.07
6:00 TO 7:00	1.6	0.75		0.72					3.07
7:00 TO 8:00	1.6	2		0.72					4.32
8:00 TO 9:00	3.2	2	1.5	0.72					6.7
9:00 TO 10:00	3.2	2		0.72	6				11.92
10:00 TO 11:00	3.2	1			6				10.2
11:00 TO 12:00	3.2	1			6				10.2
12:00 TO 1:00	3.2	1			6				10.2
TOTAL	68	32.5	3	10.88	144	16	6.4	7.2	287.9

Weekend:

1:00 TO 2:00	1.2	1			3				5.2
2:00 TO 3:00	1.2	1			3				5.2
3:00 TO 4:00	1.2	1			3				5.2
4:00 TO 5:00	1.2	1			3				5.2
5:00 TO 6:00	1.2	1			3				5.2
6:00 TO 7:00	1.2	1		0.72		1			3.92
7:00 TO 8:00	0.8	1.5	1.5	0.72		1			5.52
8:00 TO 9:00	0.8	1.5		0.72	6	1			10.02
9:00 TO 10:00	0.8	1.5		0.72	6	1			10.02
10:00 TO 11:00	1.6	1.5		0.72	6	1			10.82
11:00 TO 12:00	1.6	1.5		0.72	6	1			10.82
12:00 TO 1:00	1.6	1.5		0.72	6	1			10.82
1:00 TO 2:00	1.6	1.5		0.72		1			4.82
2:00 TO 3:00	1.6	1.5		0.72		1			4.82
3:00 TO 4:00	1.6	1.5		0.72		1			4.82
4:00 TO 5:00	1.2	1.5		0.72		1			4.42
5:00 TO 6:00	1.2	1.5		0.72		1			4.42
6:00 TO 7:00	1.2	1		0.72		1			3.92
7:00 TO 8:00	1.2	1	1.5	0.72		1			5.42
8:00 TO 9:00	1.2	1			3				5.2
9:00 TO 10:00	1.2	1			3				5.2
10:00 TO 11:00	1.2	1			3				5.2
11:00 TO 12:00	1.2	1			3				5.2
12:00 TO 1:00	1.2	1			3				5.2
	30	29.5	3	10.08	60	14			146.58

Monthly Profile**Total week power:**

Total week power=working days' power*4+weekend days' power*3

Total week power=1151.6 + 439.74

Total week power=1591.34

Monthly power:

Total monthly power=1591.34*4

Total monthly power=6365.36

June:

Classes day:

Appliance time	Fan	Light	Water pump	Refrigerator	AC	Computer	Laptop charger	Printer	Total
1:00 TO 2:00	1.6	1			6				8.6
2:00 TO 3:00	1.6	1			6				8.6
3:00 TO 4:00	1.6	1			6				8.6
4:00 TO 5:00	1.6	1		0.72	6				9.32
5:00 TO 6:00	1.6	1		0.72					3.32
6:00 TO 7:00	1.2	0.75	1.5	0.72					4.17
7:00TO 8:00	1.2	0.75		0.72					2.67
8:00 TO 9:00	1.2	0.75		0.72	10	2	0.8		13.47
9:00TO 10:00	1.6	2		0.72	10	2	0.8	3.6	20.72
10:00 TO 11:00	1.6	2		0.72	10	2	0.8		17.12
11:00 TO 12:00	1.6	2		0.72	10	2	0.8		17.12
12:00 TO 1:00	1.6	2		0.72	10	2	0.8		17.12
1:00 TO 2:00	1.6	2		0.72		2	0.8	3.6	10.72
2:00 TO 3:00	1.6	2		0.72		2	0.8		7.12
3:00TO 4:00	1.6	2		0.72		2	0.8		7.12
4:00 TO 5:00	2.4	0.75							3.15
5:00 TO 6:00	2.4	0.75							3.15
6:00 TO 7:00	2.4	0.75							3.15
7:00 TO 8:00	2.4	2							4.4
8:00 TO 9:00	1.6	2	1.5		6				11.1
9:00 TO 10:00	1.6	2			6				9.6
10:00 TO 11:00	1.6	1			6				8.6
11:00 TO 12:00	1.6	1			6				8.6
12:00 TO 1:00	1.6	1			6				8.6
TOTAL	40.4	32.5	3	8.64	102	16	6.4	7.2	218.14

Weekend:

1:00 TO 2:00	0.8	1			2				3.8
2:00 TO 3:00	0.8	1			2				3.8
3:00 TO 4:00	0.8	1			2				3.8
4:00 TO 5:00	0.8	1			2				3.8
5:00 TO 6:00	1.2	1							2.2
6:00 TO 7:00	1.2	1				1			3.2
7:00 TO 8:00	0.8	1.5	1.5			1			4.8
8:00 TO 9:00	0.8	1.5		0.72	4	1			8.02
9:00 TO 10:00	0.8	1.5		0.72	4	1			8.02
10:00 TO 11:00	0.8	1.5		0.72	4	1			8.02
11:00 TO 12:00	0.8	1.5		0.72	4	1			8.02
12:00 TO 1:00	0.8	1.5		0.72	4	1			8.02
1:00 TO 2:00	1.2	1.5		0.72		1			4.42
2:00 TO 3:00	1.2	1.5		0.72		1			4.42
3:00 TO 4:00	1.2	1.5		0.72		1			4.42
4:00 TO 5:00	1.2	1.5		0.72		1			4.42
5:00 TO 6:00	1.2	1.5		0.72		1			4.42
6:00 TO 7:00	1.2	1		0.72		1			3.92
7:00 TO 8:00	1.2	1	1.5	0.72		1			5.42
8:00 TO 9:00	1.2	1							2.2
9:00 TO 10:00	0.8	1			2				3.8
10:00 TO 11:00	0.8	1			2				3.8
11:00 TO 12:00	0.8	1			2				3.8
12:00 TO 1:00	0.8	1			2				3.8
	23.2	29.5	3	8.64	36	14			114.34

Monthly Profile**Total week power:**

Total week power=working days' power*4+weekend days' power*3

Total week power=872.56 + 343.02

Total week power=1215.58

Monthly power:

Total monthly power=1215.58*4

Total monthly power=4862.32

July:

Classes day:

Appliance time	Fan	Light	Water pump	Refrigerator	AC	Computer	Laptop charger	Printer	Total
1:00 TO 2:00	1.6	1			6				8.6
2:00 TO 3:00	1.6	1			6				8.6
3:00 TO 4:00	1.6	1			6				8.6
4:00 TO 5:00	1.6	1		0.72	6				9.32
5:00 TO 6:00	1.6	1		0.72					3.32
6:00 TO 7:00	1.2	0.75		0.72					2.67
7:00TO 8:00	1.2	0.75	1.5	0.72					4.17
8:00 TO 9:00	1.2	0.75		0.72	8	2	0.8		13.47
9:00TO 10:00	1.6	2		0.72	8	2	0.8	3.6	20.72
10:00 TO 11:00	1.6	2		0.72	8	2	0.8		17.12
11:00 TO 12:00	1.6	2		0.72	8	2	0.8		17.12
12:00 TO 1:00	1.6	2		0.72	8	2	0.8		17.12
1:00 TO 2:00	1.6	2		0.72		2	0.8	3.6	10.72
2:00 TO 3:00	1.6	2		0.72		2	0.8		7.12
3:00TO 4:00	1.6	2		0.72		2	0.8		7.12
4:00 TO 5:00	2.4	0.75							3.15
5:00 TO 6:00	2.4	0.75							3.15
6:00 TO 7:00	2.4	0.75							3.15
7:00 TO 8:00	2.4	2							4.4
8:00 TO 9:00	1.6	2	1.5		4				11.1
9:00 TO 10:00	1.6	2			4				9.6
10:00 TO 11:00	1.6	1			4				8.6
11:00 TO 12:00	1.6	1			4				8.6
12:00 TO 1:00	1.6	1			4				8.6
TOTAL	40.4	32.5	6	8.64	82	16	6.4	7.2	198.14

Weekend:

1:00 TO 2:00	0.8	1			2				3.8
2:00 TO 3:00	0.8	1			2				3.8
3:00 TO 4:00	0.8	1			2				3.8
4:00 TO 5:00	0.8	1			2				3.8
5:00 TO 6:00	1.2	1							2.2
6:00 TO 7:00	1.2	1				1			3.2
7:00 TO 8:00	0.8	1.5	1.5			1			4.8
8:00 TO 9:00	0.8	1.5		0.72	4	1			8.02
9:00 TO 10:00	0.8	1.5		0.72	4	1			8.02
10:00 TO 11:00	0.8	1.5		0.72	4	1			8.02
11:00 TO 12:00	0.8	1.5		0.72	4	1			8.02
12:00 TO 1:00	0.8	1.5		0.72	4	1			8.02
1:00 TO 2:00	1.2	1.5		0.72		1			4.42
2:00 TO 3:00	1.2	1.5		0.72		1			4.42
3:00 TO 4:00	1.2	1.5		0.72		1			4.42
4:00 TO 5:00	1.2	1.5		0.72		1			4.42
5:00 TO 6:00	1.2	1.5		0.72		1			4.42
6:00 TO 7:00	1.2	1		0.72		1			3.92
7:00 TO 8:00	1.2	1	1.5	0.72		1			5.42
8:00 TO 9:00	1.2	1							2.2
9:00 TO 10:00	0.8	1			2				3.8
10:00 TO 11:00	0.8	1			2				3.8
11:00 TO 12:00	0.8	1			2				3.8
12:00 TO 1:00	0.8	1			2				3.8
	23.2	29.5	3	10.08	36	14			114.34

Monthly Profile**Total week power:**

Total week power=working days' power*4+weekend days' power*3

Total week power=792.56 + 343.02

Total week power=1135.58

Monthly power:

Total monthly power=1135.58*4

Total monthly power=4542.32

August and September:

Classes day:

Appliance time	Fan	Light	Water pump	Refrigerator	AC	Computer	Laptop charger	Printer	Total
1:00 TO 2:00	2.4	1							3.4
2:00 TO 3:00	2.4	1							3.4
3:00 TO 4:00	2.4	1							3.4
4:00 TO 5:00	2.4	1		0.72					4.12
5:00 TO 6:00	2.4	1		0.72					4.12
6:00 TO 7:00	1.6	0.75	1.5	0.72					4.57
7:00TO 8:00	1.6	0.75		0.72					3.07
8:00 TO 9:00	1.6	0.75		0.72	3	2	0.8		8.87
9:00TO 10:00	3.2	2		0.72	3	2	0.8	3.6	15.32
10:00 TO 11:00	3.2	2		0.72	3	2	0.8		11.72
11:00 TO 12:00	3.2	2		0.72	3	2	0.8		11.72
12:00 TO 1:00	3.2	2		0.72	3	2	0.8		11.72
1:00 TO 2:00	3.2	2		0.72	3	2	0.8	3.6	15.32
2:00 TO 3:00	3.2	2		0.72	3	2	0.8		11.72
3:00TO 4:00	3.2	2		0.72	3	2	0.8		11.72
4:00 TO 5:00	1.6	0.75							2.35
5:00 TO 6:00	1.6	0.75							2.35
6:00 TO 7:00	1.6	0.75							2.35
7:00 TO 8:00	1.6	2							3.6
8:00 TO 9:00	2.4	2	1.5						5.9
9:00 TO 10:00	2.4	2	1.5						4.4
10:00 TO 11:00	2.4	1							3.4
11:00 TO 12:00	2.4	1							3.4
12:00 TO 1:00	2.4	1							3.4
TOTAL	57.6	32.5	3	8.64	24	16	6.4	7.2	155.34

Weekend:

1:00 TO 2:00	1.6	1							2.6
2:00 TO 3:00	1.6	1							2.6
3:00 TO 4:00	1.6	1							2.6
4:00 TO 5:00	1.6	1							2.6
5:00 TO 6:00	1.6	1							2.6
6:00 TO 7:00	1.6	1				1			3.6
7:00 TO 8:00	0.8	1.5	1.5			1			4.8
8:00 TO 9:00	0.8	1.5		0.72		1			4.02
9:00 TO 10:00	0.8	1.5		0.72		1			4.02
10:00 TO 11:00	1.2	1.5		0.72		1			4.42
11:00 TO 12:00	1.2	1.5		0.72		1			4.42
12:00 TO 1:00	1.2	1.5		0.72		1			4.42
1:00 TO 2:00	1.2	1.5		0.72		1			4.42
2:00 TO 3:00	1.2	1.5		0.72		1			4.42
3:00 TO 4:00	1.2	1.5		0.72		1			4.42
4:00 TO 5:00	0.8	1.5		0.72		1			4.02
5:00 TO 6:00	0.8	1.5		0.72		1			4.02
6:00 TO 7:00	0.8	1		0.72		1			3.52
7:00 TO 8:00	0.8	1	1.5	0.72		1			5.02
8:00 TO 9:00	0.8	1							1.8
9:00 TO 10:00	1.6	1							2.6
10:00 TO 11:00	1.6	1							2.6
11:00 TO 12:00	1.6	1							2.6
12:00 TO 1:00	1.6	1							2.6
	29.6	29.5	3	8.64	0	14			84.74

Monthly Profile**Total week power:**

Total week power=working days' power*4+weekend days' power*3

Total week power=621.36 + 254.22

Total week power=875.58

Monthly power:

Total monthly power=875.58*4

Total monthly power=3502.32

November:**Classes day**

Appliance time	heater	Light	Water pump	Refrigerator	Geyser	Computer	Laptop charger	Printer	Total
1:00 TO 2:00		1							1
2:00 TO 3:00		1							1
3:00 TO 4:00		1							1
4:00 TO 5:00	6	1		0.72	6				13.72
5:00 TO 6:00	6	1		0.72	6				13.72
6:00 TO 7:00	6	0.75	1.5	0.72	6				14.97
7:00TO 8:00	6	0.75		0.72	6				13.47
8:00 TO 9:00	6	0.75		0.72	6	2	0.8		16.27
9:00TO 10:00	6	2		0.72	6	2	0.8	3.6	21.12
10:00 TO 11:00		2		0.72		2	0.8		5.52
11:00 TO 12:00		2		0.72		2	0.8		5.52
12:00 TO 1:00		2		0.72		2	0.8		5.52
1:00 TO 2:00		2		0.72		2	0.8	3.6	9.12
2:00 TO 3:00		2		0.72		2	0.8		5.52
3:00TO 4:00		2		0.72		2	0.8		5.52
4:00 TO 5:00		0.75							0.75
5:00 TO 6:00		0.75							0.75
6:00 TO 7:00	6	0.75			6				12.75
7:00 TO 8:00	6	2			6				14
8:00 TO 9:00	6	2	1.5		6				15.5
9:00 TO 10:00	6	2			6				14
10:00 TO 11:00		1							1
11:00 TO 12:00		1							1
12:00 TO 1:00		1							1
TOTAL	60	32.5	6	8.64	60	16	6.4	7.2	193.74

Weekend:

1:00 TO 2:00		1						1
2:00 TO 3:00		1						1
3:00 TO 4:00		1						1
4:00 TO 5:00		1						1
5:00 TO 6:00	1.5	1			1.5			4
6:00 TO 7:00	1.5	1			1.5			4
7:00 TO 8:00	1.5	1.5	1.5		1.5			6
8:00 TO 9:00	1.5	1.5		0.72	1.5	1		6.22
9:00 TO 10:00	1.5	1.5		0.72	1.5	1		6.22
10:00 TO 11:00		1.5		0.72		1		3.22
11:00 TO 12:00		1.5		0.72		1		3.22
12:00 TO 1:00		1.5		0.72		1		3.22
1:00 TO 2:00		1.5		0.72		1		3.22
2:00 TO 3:00		1.5		0.72		1		3.22
3:00 TO 4:00		1.5		0.72		1		3.22
4:00 TO 5:00		1.5		0.72		1		3.22
5:00 TO 6:00	1.5	1.5		0.72	1.5			5.22
6:00 TO 7:00	1.5	1		0.72	1.5			4.72
7:00 TO 8:00	1.5	1	1.5	0.72	1.5			6.22
8:00 TO 9:00	1.5	1			1.5			4
9:00 TO 10:00		1						1
10:00 TO 11:00		1						1
11:00 TO 12:00		1						1
12:00 TO 1:00		1						1
	13.5	29.5	3	8.64	13.5	9		77.14

Monthly Profile**Total week power:**

Total week power = working days' power*4+weekend days' power*3

Total week power = 774.96 + 231.42

Total week power = 1006.38

Monthly power:

Total monthly power = 1006.38*4

Total monthly power = 4025.52