



## UI GreenMetric Questionnaire

University : Nakhon Pathom Rajabhat University  
Country : Thailand  
Web Address : www.npru.ac.th

### [5] Transportation (TR)

#### [5.4] The total number of vehicles (cars and motorcycles) divided by total campus' Population

No.	Vehicle	Total Number
1	Car managed by the university	22
2	Cars entering the university	1121
3	Motorcycles entering the university	172
	Total	1315

#### Description:

Nakhon Pathom Rajabhat University manages 22 vehicles, including 13 cars, 4 buses, 3 trucks, and 2 electric shuttle buses (NPRU Electric Shuttle BUS). The average number of cars entering the university last year was 1,121 cars. In addition, the average number of motorcycles entering the university for a day is 172.

can show the average calculation number of vehicles roaming around the university for a day divided by the total university population is as follow;

$$= (22 + 1,121 + 172) / (24,246 \text{ number of students} + 842 \text{ number of staff})$$

$$= 0.052 \text{ within the criteria [4] } < 0.125 - 0.045$$



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## [5] Transportation (TR)

### [5.5] Shuttle Services



NPRU Electric Shuttle BUS

Electric Charging Position of Bus

### แผนที่แสดงเส้นทางรถโดยสาร และจุดจอดรับ-ส่งผู้โดยสาร

1. ตึกจัดการนักศึกษา
2. ตึกวิศวกรรมโยธา
3. ตึกคอมพิวเตอร์
4. ตึกพยาบาล
5. ตึก A-7
6. หอประชุมชัยมงคล
7. ตึก A-5
8. ตึก A-3
9. โรงอาหาร
10. ตึก 15 ชั้น
11. ตึก A-1

12. หอพักพยาบาล
13. ศาลาพักผ่อน
14. ตึกกีฬา
15. สระบึง
16. ตึกศิลปศาสตร์
17. ตึกมนุษยศาสตร์
18. ตึก ETB



Bus Route Diagram



**Description:**

Nakhon Pathom Rajabhat University has a shuttle service with the primary objective of receiving and sending passengers, whether students or staff. The bus operation aims to reduce pollution from traffic within the university. Therefore, a project is to bring the electric shuttle bus to pick up and send students or staff free of charge. The details of the service are that there are two trains.

The shuttle bus can accommodate the number of passengers up to 22 seats per car, running around the university, through buildings and essential places, numbering 18 stops (Bus Stop), with a distance of about 2 kilometres, approximately 15 minutes per round. It operates on business days from 10 AM to 3:30 PM, with total trips = 28 trips per day or a distance of 56 kilometres per day, and 120 passengers per weekday.





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### [5] Transportation (TR)

#### [5.9] Zero Emission Vehicles (ZEV) Policy on Campus



NPRU Electric Shuttle Bus



NPRU Electric Shuttle Bus



NPRU Electric Shuttle Bus



NPRU Electric Shuttle Bus

#### Description:

Nakhon Pathom Rajabhat University has a shuttle bus service free of charge with the primary objective of receiving and sending passengers, whether students or staff, to reduce the number of car use and motorcycles roaming within the university, which causes traffic problems and pollution within the university. In addition, the shuttle bus operation aims to reduce pollution from traffic within the university.

The shuttle bus hours are on business days from 10.00 a.m. to 1.30 p.m., battery charging takes about 8 hours, and standby for servicing approximately 3 to 4 hours full of passengers.



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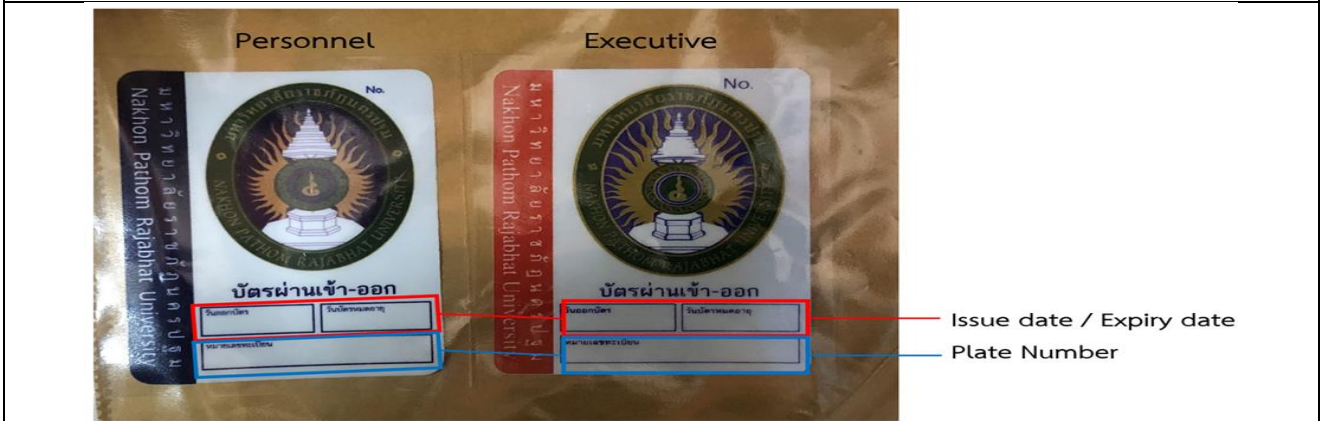
University : Nakhon Pathom Rajabhat University  
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## [5] Transportation (TR)

### [5.13] Ratio of Parking Area to Total Campus Area



Ratio of Parking Area to Total Campus Area



NPRU Parking Permit

#### Description:

Nakhon Pathom Rajabhat University has a formal policy to limit the university's access to private cars. Besides, some parking areas are not allowed; staff and executives must have the parking permit sticker attached to the windshield. NPRU has a total parking area of 14,134.85 m<sup>2</sup> (40 stops), approximately 4.22 % of the area, 335,057.84 m<sup>2</sup>.

**Total main campus area: 335,057.84 m<sup>2</sup>**

**Total parking area = 14,134.85 m<sup>2</sup>**

**Ratio = 4.2**

For additional details, please visit this link: <https://drive.google.com/drive/folders/1E5Gus2cod0b1t-mYCYyy-w7crGlzmV84?usp=sharing>





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### [5] Transportation (TR)

#### [5.15] Number of Transportation Initiatives to Decrease Private Vehicles on Campus



**Examples of the use of automatic license plate recognition systems at the office of the University**

#### **Description:**

Nakhon Pathom Rajabhat University has carried out a project to reduce the use of private vehicles by limiting access to the university staff's private cars and promoting the use of shuttle buses. The number of private vehicles accessing the campus significantly reduce. The total average number of private vehicles decreased from 1,121 cars per month in 2020 to 257 cars per month in 2021. Therefore, the project to reduce the use of private vehicles is successful in decreasing private vehicles, the measures implemented as follows;



1. Limiting the number of private cars in the parking area on campus by not allowing non-registration cars to access the university parking area. Using automatic license plate recognition systems also limits access to the parking areas of each department.

**Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):**



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### [5] Transportation (TR)

#### [5.16] Pedestrian Path Policy on Campus



The pedestrian path on the campus

#### Description:

Nakhon Pathom Rajabhat University has a policy to promote The Green University concept and develop the walkway. The pedestrian path aims to separate roads for vehicles and links the way among the buildings on the campus. The university plans to improve the pedestrian walkway to be more comfortable and support the journey for the disabled.





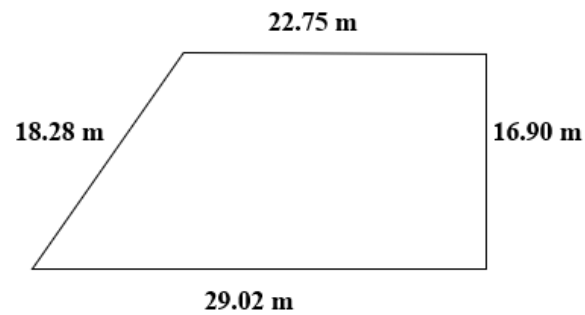
### Additional details for the parking area

#### Parking lot No. 1



Parking spaces      19      cars

Dimension



Area Parking lot No. 1      =      437.45      m<sup>2</sup>



**Parking lot No. 2**

Parking spaces      11      cars

Dimension

**27.29 m**



**5.74 m**

Area Parking lot No. 2      =      156.64      m<sup>2</sup>



**Parking lot No. 3**

Parking spaces      5      cars

Dimension

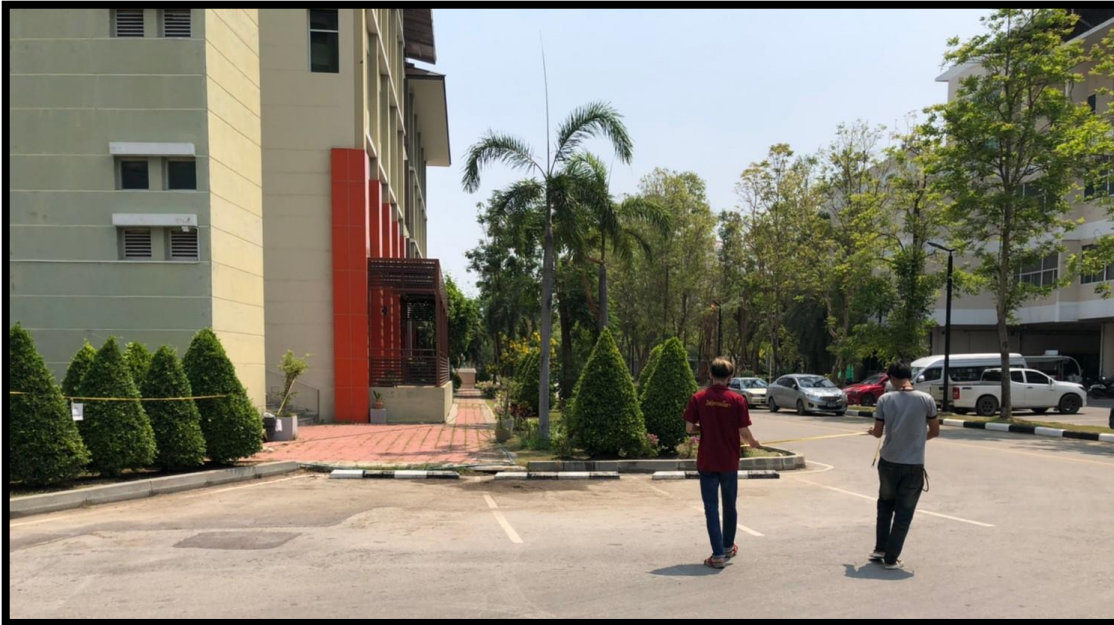
**13.30 m**



**5 m**

Area Parking lot No. 3      =      66.5      m<sup>2</sup>

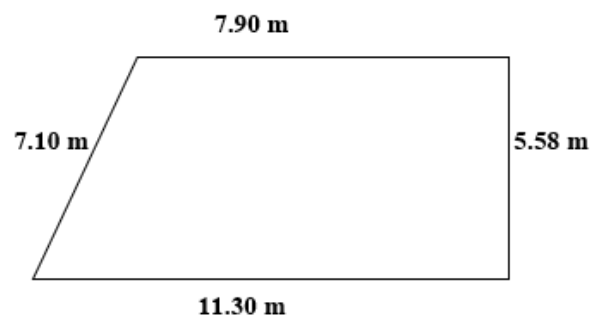




Parking lot No. 4

Parking spaces      3      cars

Dimension



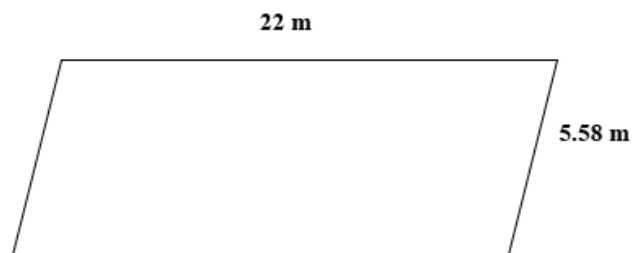
Area Parking lot No. 4      =      56.44      m<sup>2</sup>



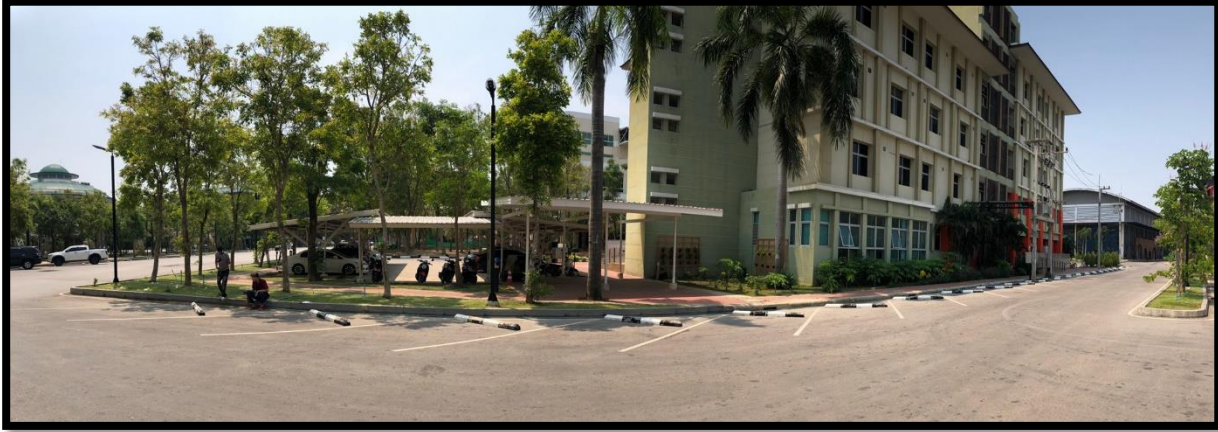
**Parking lot No. 5**

Parking spaces        7        cars

Dimension



Area Parking lot No. 5        =        122.76    m<sup>2</sup>



**Parking lot No. 6**

Parking spaces      22      cars

Dimension

78.80 m



5.60 m

Area Parking lot No. 6      =      441.28   m<sup>2</sup>





**Parking lot No. 7**

Parking spaces      10      cars

Dimension

**11.90 m**



**13.80 m**

Area Parking lot No. 7      =      164.22      m<sup>2</sup>



**Parking lot No. 8**

Parking spaces      16      cars

Dimension

**40.12 m**



**5.60 m**

Area Parking lot No. 8      =      224.67    m<sup>2</sup>



**Parking lot No. 9**

Parking spaces      4      cars

Dimension

**10.11 m**



**5.55 m**

Area Parking lot No. 9      =      56.11      m<sup>2</sup>

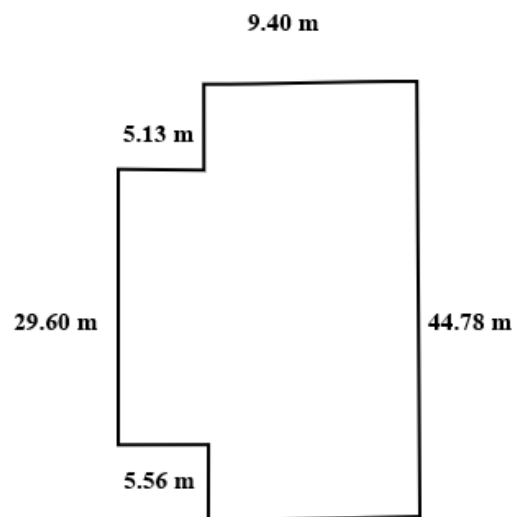




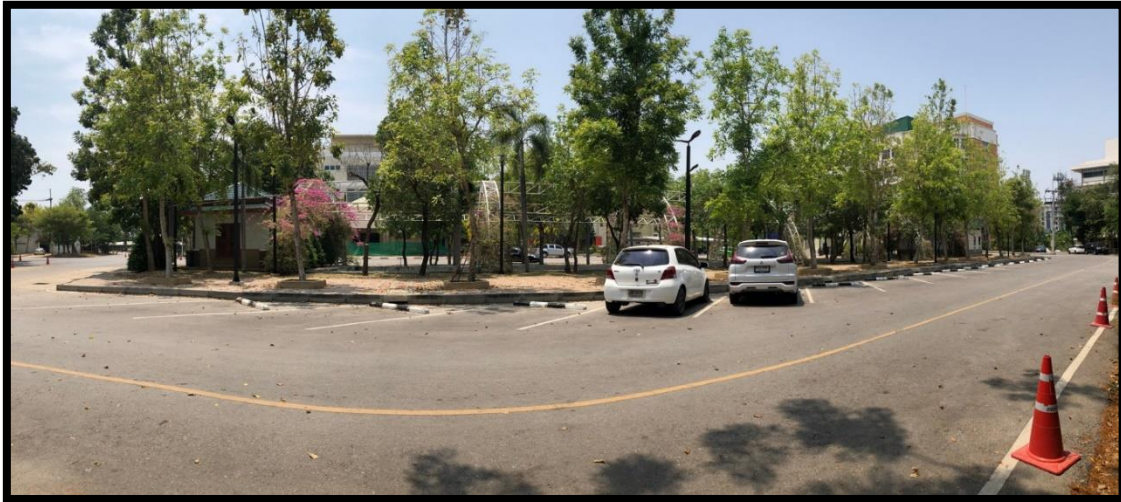
**Parking lot No. 10**

Parking spaces      29      cars

Dimension



Area Parking lot No. 10 =      585.5      m<sup>2</sup>



**Parking lot No. 11**

Parking spaces      17      cars

Dimension

**61.44 m**



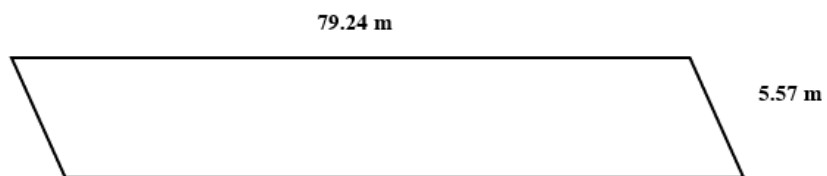
Area Parking lot No. 11 =      342.22      m<sup>2</sup>



**Parking lot No. 12**

Parking spaces      17      cars

Dimension



Area Parking lot No. 12 =      441.36      m<sup>2</sup>



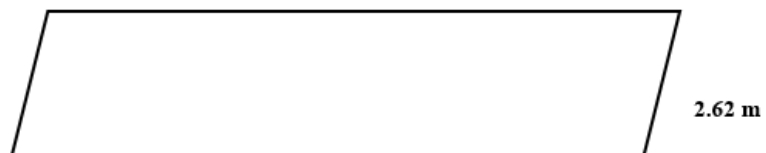


**Parking lot No. 13**

Parking spaces      15      cars

Dimension

**42.19 m**



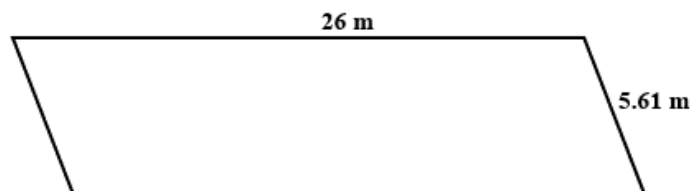
Area Parking lot No. 13 =      110.53      m<sup>2</sup>



**Parking lot No. 14**

Parking spaces      12      cars

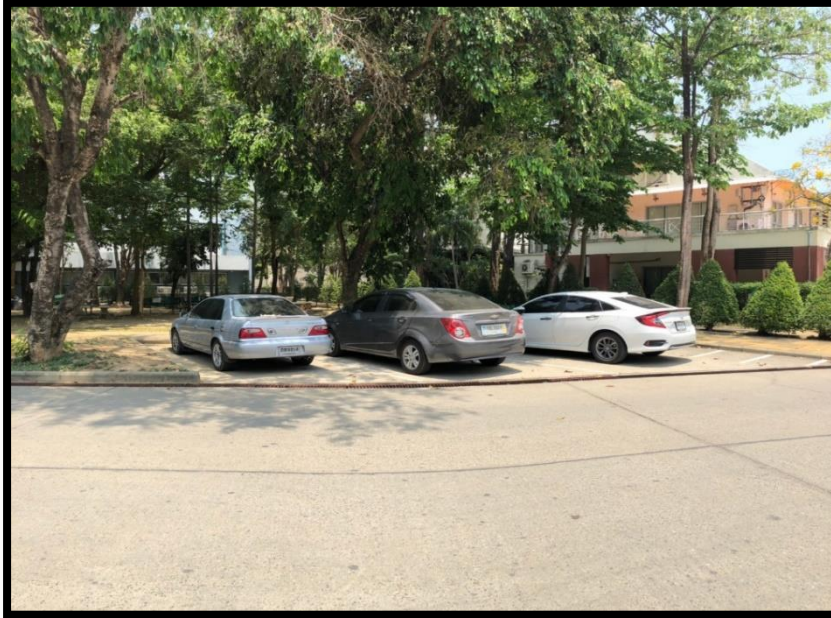
Dimension



Area Parking lot No. 14 =      145.86      m<sup>2</sup>

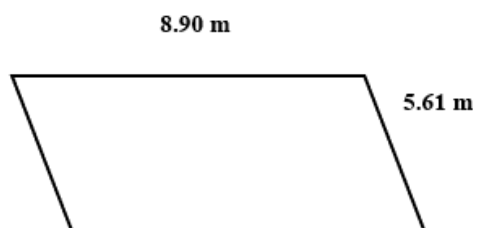


### Parking lot No. 15



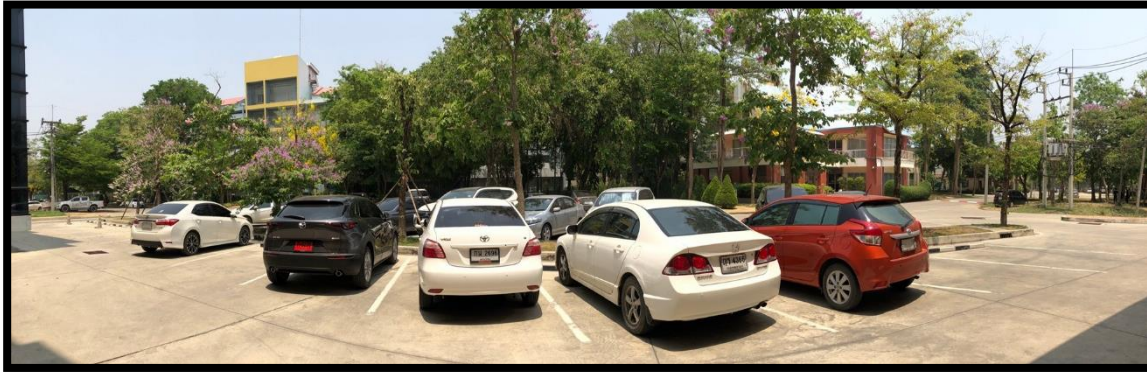
Parking spaces      3      cars

Dimension



Area Parking lot No. 15 =      49.92      m<sup>2</sup>

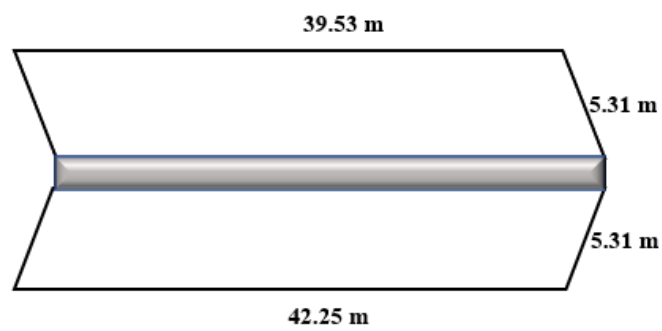




**Parking lot  
No. 16**

Parking spaces      29      cars

Dimension



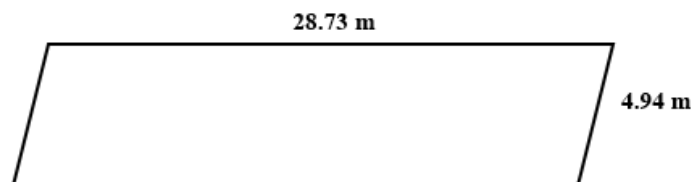
Area Parking lot No. 16 =      434.24      m<sup>2</sup>



**Parking lot No. 17**

Parking spaces      11      cars

Dimension



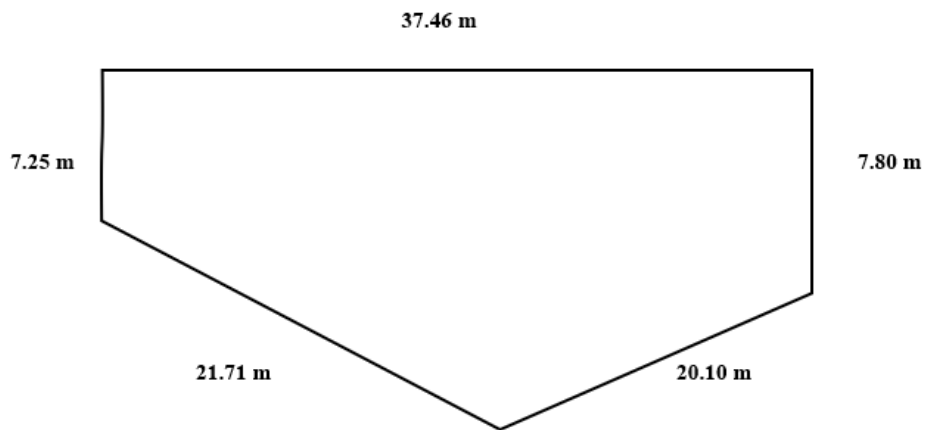
Area Parking lot No. 17 =      141.92      m<sup>2</sup>



**Parking lot No. 18**

Parking spaces      19      cars

Dimension



Area Parking lot No. 18 =      433.49      m<sup>2</sup>



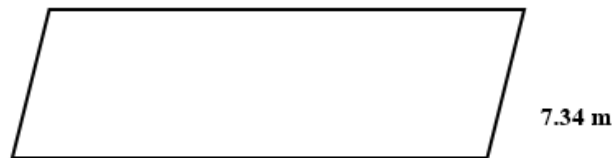


**Parking lot No. 19**

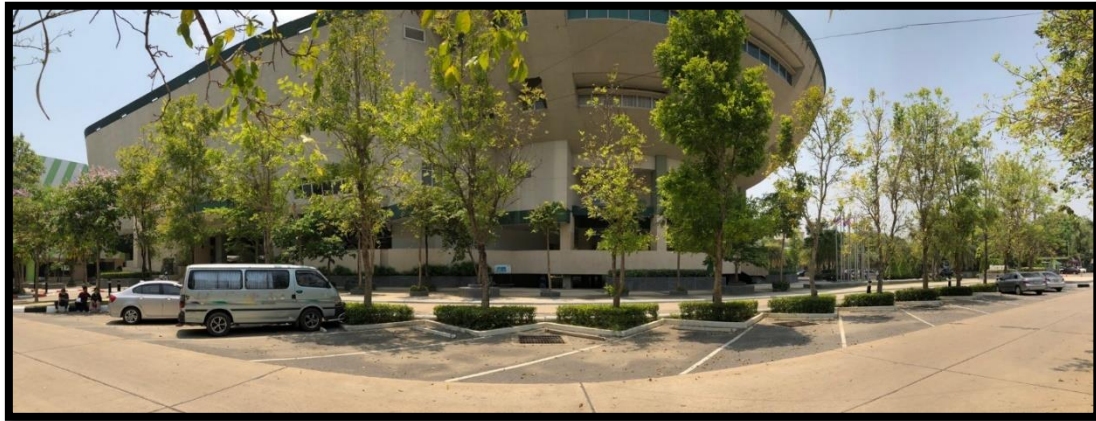
Parking spaces      4      cars

Dimension

5.20 m



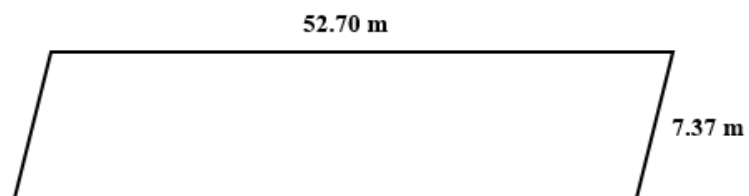
Area Parking lot No. 19 =      38.16      m<sup>2</sup>



**Parking lot No. 20**

Parking spaces          14          cars

Dimension



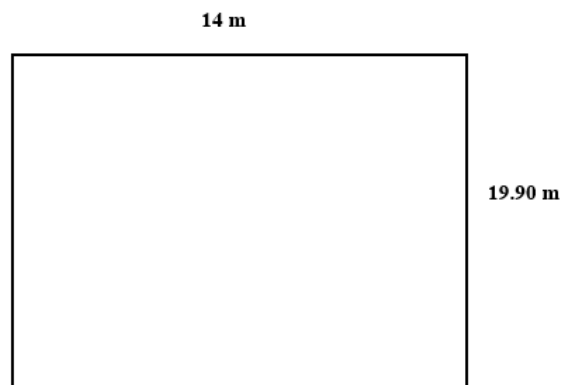
Area Parking lot No. 20 =          388.39          m<sup>2</sup>



Parking lot No. 21

Parking spaces        8        cars

Dimension



Area Parking lot No. 21 =        136.6        m<sup>2</sup>

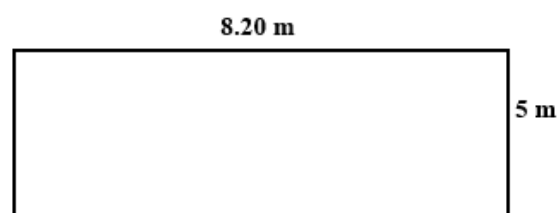




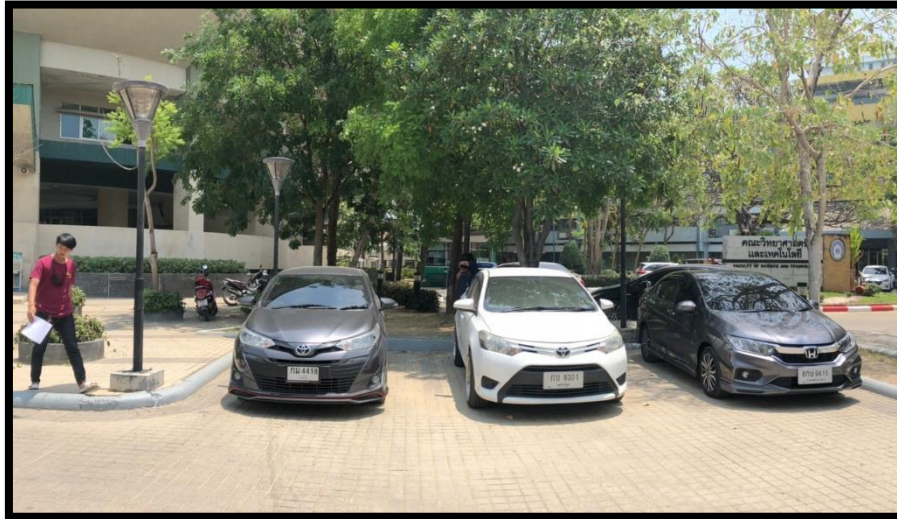
**Parking lot No. 22**

Parking spaces      3      cars

Dimension



Area Parking lot No. 22 =      41      m<sup>2</sup>



**Parking lot No. 23**

Parking spaces      3      cars

Dimension

**7.70 m**



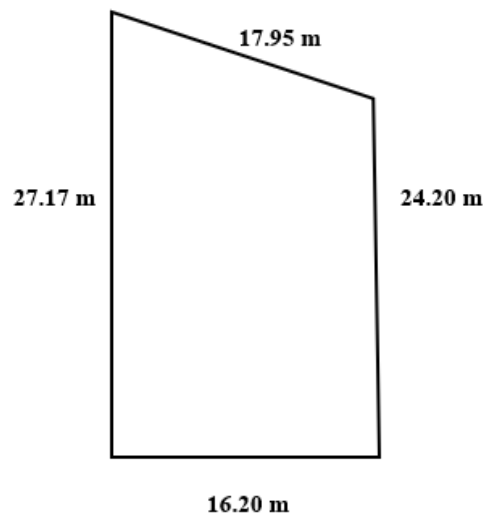
Area Parking lot No. 23 =      38.5      m<sup>2</sup>



**Parking lot No. 24**

Parking spaces      17      cars

Dimension



Area Parking lot No. 24 =      421.234      m<sup>2</sup>



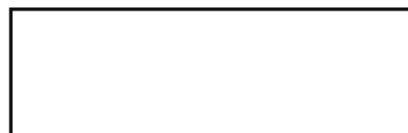


**Parking lot No. 25**

Parking spaces      12      cars

Dimension

**49 m**



**3.81 m**

Area Parking lot No. 25 =      186.69      m<sup>2</sup>

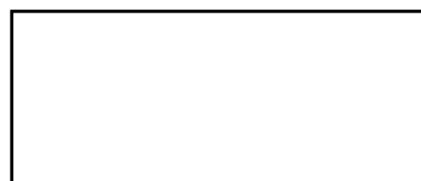


**Parking lot No. 26.1 (4 Floors)**

Parking spaces      40      cars

Dimension

26 m



6.28 m

Area Parking lot No. 26.1      =      658.12      m<sup>2</sup>

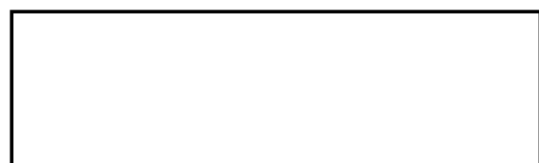


**Parking lot No. 26.2 (4 Floors)**

Parking spaces      72      cars

Dimension

**44.20 m**



**4.58 m**

Area Parking lot No. 26.2      =      809.72      m<sup>2</sup>

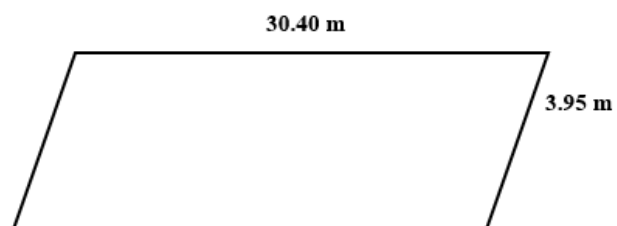




**Parking lot No. 27**

Parking spaces      11      cars

Dimension



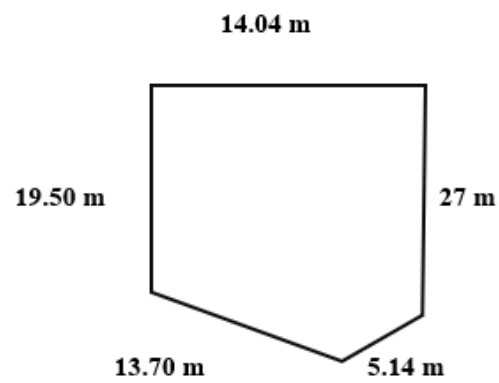
Area Parking lot No. 27 =      120.08      m<sup>2</sup>



**Parking lot No. 28**

Parking spaces      14      cars

Dimension



Area Parking lot No. 28 = 330.57 m<sup>2</sup>

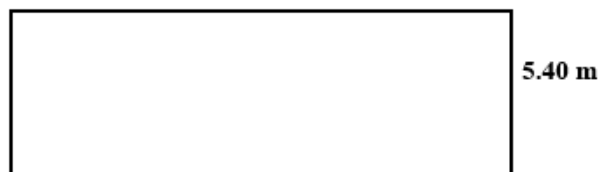


**Parking lot No. 29**

Parking spaces      7      cars

Dimension

**17.30 m**



Area Parking lot No. 29 =      93.42      m<sup>2</sup>

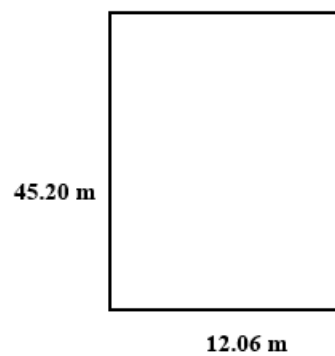




**Parking lot No. 30**

Parking spaces      32      cars

Dimension



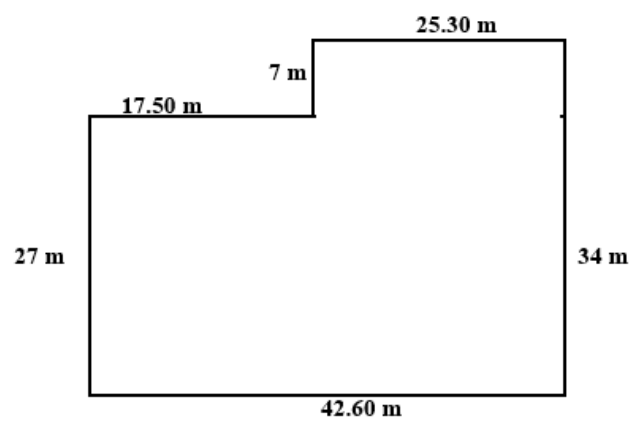
Area Parking lot No. 30 = 545.112 m<sup>2</sup>



**Parking lot No. 31**

Parking spaces      61      cars

Dimension



Area Parking lot No. 31 =      1,327.3      m<sup>2</sup>



**Parking lot No. 32**

Parking spaces      12      cars

Dimension

**30.10 m**



Area Parking lot No. 32 =      150.5      m<sup>2</sup>



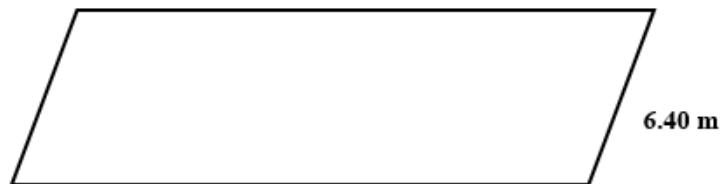


**Parking lot No. 33**

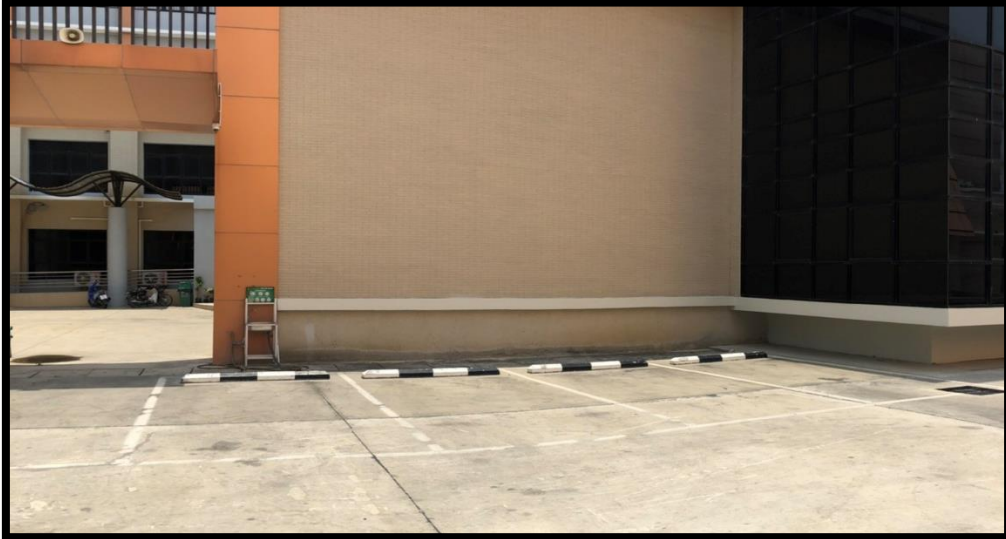
Parking spaces      15      cars

Dimension

**44.60 m**



Area Parking lot No. 33 =      285.44      m<sup>2</sup>



**Parking lot No. 34**

Parking spaces      4      cars

Dimension

**10.10 m**



Area Parking lot No. 34 =      50.5      m<sup>2</sup>

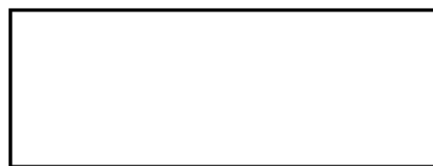


**Parking lot No. 35**

Parking spaces        2        cars

Dimension

**5.40 m**



**5 m**

Area Parking lot No. 35 =        27        m<sup>2</sup>



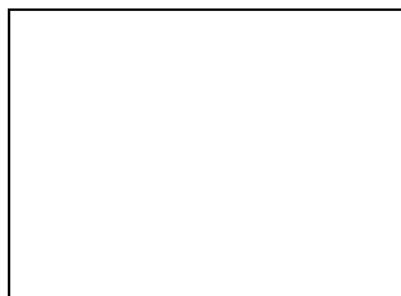


**Parking lot No. 36**

Parking spaces      10      cars

Dimension

50.50 m



7.64 m

Area Parking lot No. 36 =      385.94      m<sup>2</sup>



**Parking lot No. 37**

Parking spaces      15      cars

Dimension

**60.63 m**



Area Parking lot No. 37 =      502      m<sup>2</sup>



**Parking lot No. 38**

Parking spaces      11      cars

Dimension

**20.82 m**



**16.5 m**

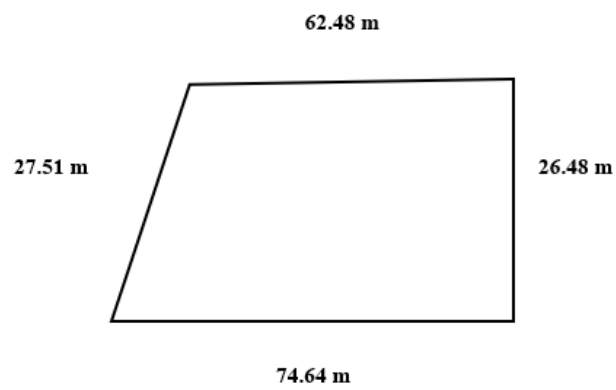
Area Parking lot No. 38 =      343.61      m<sup>2</sup>



**Parking lot No. 39**

Parking spaces      48      cars

Dimension



Area Parking lot No. 39 =      1,815.65      m<sup>2</sup>

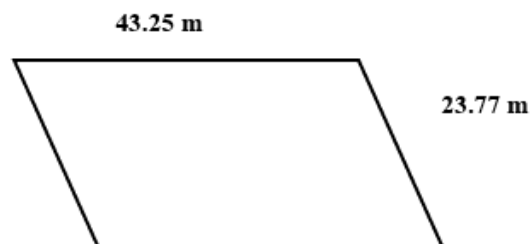




**Parking lot No. 40**

Parking spaces      24      cars

Dimension



Area Parking lot No. 39 =      1,028.20      m<sup>2</sup>

**Summary NPRU parking area = 14,134.85      m<sup>2</sup>**