INTERIOR DESIGN MULTIFUNCTION GUESTHOUSE MMT-ITS SURABAYA WITH ECO-FRIENDLY MODERN CONCEPT

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BACKGROUND

Institute of Technology (ITS) have contributed significantly to the advancement of technology and took spawned leaders, entrepreneurs and managers reliable nationwide. But the challenges of globalization, hyper-competition in an increasingly complex world and it is not enough to rely solely on the solution to the advances in technology. How technopreneurship reliable, this challenge requires a quick response, unique, dynamic and complex business world. For managers and executives knowledge of business and entrepreneurship must have, with management expertise in finding the best solutions are creative, effective, realistic and for every situation.

To deal with the above challenges, the necessary cross-and multi-disciplinary knowledge. Therefore, since 1996 ITS has organized. Master of Management Technology (MMT), which is under the management of ITS Graduate Program. Educational programs organized by MMT-oriented ITS practical, comprehensive, and relevant in preparing candidates for managers, business and industry, and leaders of business and industry researchers.

Along with the many student-ITS MMT coming from outside the city and take in college education S2 MMT-ITS, in the long run to the front of the campus MMT-ITS will be constrained by the increasing number of students who are taking classes in MMT-ITS, and will raises a number of events - events that would arise, such as: graduation, Anniversary, seminars, and others., to the campus MMT-ITS requires a guesthouse as a representative and support facilities that are able to facilitate the needs of guests who followed the events on campus MMT-ITS as well as a transit point, relax, unwind, and others.
INTERIOR DESIGN MULTIFUNCTION GUESTHOUSE MMT-ITS SURABAYA WITH ECO-FRIENDLY MODERN CONCEPT

**Surabaya**
Surabaya is the capital city of East Java, Indonesia. Surabaya is the second largest city in Indonesia after Jakarta, with a population of metropolis that reach 3 million people, while the region Gerbangkertosusila (Surabaya Metropolitan Region) is Indonesia's second largest metropolis after Jabodetabek([sumber](http://id.wikipedia.org/wiki/Kota_Surabaya))

**Eco-Friendly**
Eco-Friendly literally means environmentally friendly or not harmful to the environment. The term often refers to a product that contributes to the lifestyle of "living green" or energy-efficient lifestyle and water. In addition, eco-friendly products can also contribute separately to prevent air pollution, ([sumber](en.wikipedia.org/wiki/Environmentally_friendly))

**Modern**
Development of modern architects focus on simplicity of design. Modern International Style architects embrace form follows function. ([Rayner Banham. “Age of The Master : A Personal View of Modern Architecture”.1978](http))

Designing the design process, compose, integrate on the inside of a building (interior) Campus MMT-ITS, which is a multifunctional guesthouse with an idea or concept that is closely related to eco-friendly design with a modern theme
DESIGN METHOD

INTERIOR DESIGN MULTIFUNCTION GUESTHOUSE MMT-ITS SURABAYA WITH ECO-FRIENDLY MODERN CONCEPT

- OBSERVATION
- DATA COLLECTION
- LITERATURE

ACTIVITY

COMPARATIVE STUDY

USER STUDY

DATA PROCESSING

CONCEPT RESEARCH

- INTERIOR
- ECO-FRIENDLY
- MODERN
- MATERIAL
- COLOUR
INTRODUCTION

**Problem Identification**

a. S2 Students studying in campus ITS MMT-many from outside the city
b. MMT-ITS is building educational buildings and not a hotel or a place to stay.
c. The design of the interior design of the building guesthouse blends with education
d. In the central area of the building will be used as a plaza

**Purpose**

a. Provides convenient access on student travel S2 are conducting lectures at the MMT-ITS
b. Creating interiors guesthouse, which could give a new experience to visitors and students, safe, and comfortable. both visually, and psychologically.
c. Creating zoning arrangement of furniture and good on the interior of the guesthouse, so as to provide comfort and circulation activities for visitors or students.
d. Creating the interior design MMT-ITS guesthouse, so it can be support facilities MMT-ITS for transit or resting place for the students to invited guests from outside. So it has great benefits for the campus MMT-ITS in the future.

**Problem Limitations**

a. Design conducted in the building MMT-ITS Surabaya city as a case study the main object in doing research
b. Conduct within the scope of existing design and activities conducted in the building MMT-ITS
c. Needs of users, especially students of S2 to MMT-ITS building as an object of research.
d. The material must used recycled materials eligible to be worn as furniture and aesthetic elements

**Problem Formulation**

a. How to create an interior design guesthouse on campus MMT-ITS that meet the needs of college students S2 that are located outside the city of Surabaya.
b. How to make the interior design of the guesthouse into a decent place to stay for visitors and S2 students who are studying on campus MMT-ITS.
c. How to create a circulatory system and a good area zoning to allow a variety of activities in the guesthouse MMT-ITS

**Benefit**

a. Creating interiors Multifunction Guest House with touch Eco-friendly with a modern theme
b. Presenting environmentally friendly image guesthouse on the interior.
c. Interior Design guesthouse MMT-ITS can improve image with good interior.
STUDY OF LITERATURE
Wisma MM UGM Hotel is an ideal place to visit in Yogyakarta. The entertainment center of town just 2 km. This modern hotel is near the city’s top attractions such as UGM Mosque, Galeria Mall Yogyakarta, Kridosono Stadium.
Lodging or accommodation when traveling or holiday residence is kind of on the way in which people should stay away from home more than one day for the purpose of a place to sleep, rest, safety, shelter from cold temperatures or rain, storage of goods, as well as access to common functions the household.

Lodging can be done in places such as hotels, resorts, apartments, hostels, private home (commercial, ie a place to sleep that guests get breakfast or vacation rental home place, which is a non-commercial with membership or guest hospitality services at a friend's house), in a tent while camping (often in camp) to include garbage problem.
KINDS OF LODGING IN INDONESIA

1. Hotel: is a type of accommodation that provides some or all of the buildings to provide services / lodging, eating and drinking, as well as other services for common commercially managed (MENPARPOSTEL No. SK.. Km. 34 / NK 103 / MPPT. 87)

2. Motel: Motel acronym derived from the English word, "motorists" is a kind of inn motel managed to serve transit customers. Its meaning roughly, "a shelter for migrants" or also "building huts and food providers to the public". In the concept of the motel, guests are walkers with a private vehicle that needs overnight. Motel always provide parking / garage and almost always located on the edge of town, or even out of town.

3. Inns: Derived from the word Lodgement is a commercial enterprise that uses all or part of a building that is exclusively reserved for any person who acquires an accommodation. Inn is the epitome of a jasmine flower.

4. Dormitory: Boarding is a base intended for members or a group, mostly students - school and college students. Boarding usually is a building with rooms - rooms that can be occupied by several occupants in each room. The occupants staying in the dorm for a longer period of time than in a hotel, or inn. reasons for choosing to inhabit a dorm can be a place of origin of the residents who live too far away, and for the cost that is considerably less expensive than other lodging places, such as apartments.

5. Guesthouse: guesthouse is a kind of lodging. In some parts of the world is similar to a hostel guesthouse with breakfast facility, or as a place of temporary lodging. Guesthouse is a type of lodging with cheap rate. Another notion, Guesthouse is a private home that has been converted for the exclusive use of guest accommodation. The owner usually lives in an entirely separate area is not like home stay, and House can serve as a lodging establishment. In some areas of the world, Guesthouse also usually available as accommodation for visitors who do not have local relatives to stay with.
STUDY OF LITERATURE

CLASSIFICATION OF LODGING

Although the main activity that contained the same, some of the inn has a unique design different, both in terms of the completeness of space, availability of services, the appearance of the building, as well as the atmosphere in the building is designed. It is specifically generated from analysis of specific users or specific activities contained within each specialty. The planning process every lodging need to pay attention to a variety of related components, which vary according to the type of hotel that is planned. Therefore, understanding the multiple classification of necessary accommodation, which can be viewed from various perspectives, namely in terms of the purpose of the arrival of guests, length of guest stay, number of rooms and location.

The following classification of accommodation according to several aspects:

1. Types of Stayed by destination arrival of guests:
   - **Business hotel**: The hotel is designed to accommodate guests who have business and study purposes.
   - **Pleasure hotel**: The hotel is devoted to most of the amenities that guests have a recreation destination.
   - **Country hotel**: An inter-state accommodations for guests.
   - **Sport hotel**: Lodging facilities are intended primarily to serve the guests who have the purpose to exercise.

2. Guest accommodation Types of according to length of stay:
   - **Transit hotel**: Accommodation that is not a long time (daily).
   - **Semi-residential hotel**: That inn with the average consumer stays a long time (weekly).
   - **Residential hotel**: An inn with guest visits are very long (monthly).

3. Types of the number of lodging rooms:
   - **Small hotel**: That inn with a small number of rooms (maximum 25 rooms).
   - **Medium hotel**: Inn with a number of medium-size rooms (approximately 29-299 rooms).
   - **Large hotel**: Namely accommodation with large rooms (minimum 300 rooms).
STUDY OF LITERATURE

REVIEW ABOUT COMMON GUESTHOUSE

In accordance with its name alone has meaning guesthouse guest house or temporary housing, and the most fundamental difference with the hotel, a fundamental difference with the hotel managers are usually offered here for daily and monthly rent. The concept is almost like a boarding house in general but there are a janitor and has complete facilities such as hotels with a relatively cheap price.
STUDY OF LITERATURE

GUESTHOUSE DEFINITION

Guesthouse is a kind of lodging. In some parts of the world is similar to a hostel guesthouse with breakfast facility, or as a place of temporary lodging. Guesthouse is a type of lodging with cheap rate. Another notion, Guesthouse is a private home that has been converted for the exclusive use of guest accommodation. The owner usually lives in an entirely separate area is not like home stay, and House can serve as a lodging establishment. In some areas of the world, Guesthouse also usually available as accommodation for visitors who do not have local relatives to stay with.
STUDY OF LITERATURE

ROOM FACILITIES STANDARDS ON GUESTHOUSE

Standard Room
Is kind of the price is the cheapest room in an inn because of the facilities available in the room is generally accepted in all the inns. Standard equipment in an inn usually are as follows: The bedrooms are equipped with: a bed that is used at generally wear spring bed to make it more powerful, gentle and does not need to be dried.

Deluxe Room
Is the type of rooms with better facilities than a standard room, for example, the size of the larger rooms and additional services such as televisions, refrigerators, and others.

Executive Room
What distinguishes this room is another room in addition to the presence of bedrooms and bathrooms. Another room is like a living room with a few chairs or sofas. Well because there is the additional space is more spacious than Superior / Deluxe Room.

Family Room
Room for 3 persons commonly called by the name Family Room, a room with a single bed and one double-size bed Single size, or a room equipped with a bed 3 pieces each about the size single. Usually the Family Room has a larger space.
Eco-Friendly literally means environmentally friendly or not harmful to the environment. The term refers to the serine products that contribute to a lifestyle of "living green" or energy efficient lifestyle and water. In addition, eco-friendly products and eco friendly interior design can also prevent contribute to air pollution.
THE CONCEPT build green homes and environmentally sound into today's demands. With the application of this concept, you can reduce energy waste and lead to inhibit the effects of global warming.

Humans in many ways ultimately seeks to address the impact of global warming. One of the efforts is to create a more residential green (green house) or environmentally friendly (eco-friendly house). Basically, applying the concept of green house energy-efficient home, especially much use aeration and natural lighting to reduce reliance on the use of air conditioners.

In addition, the concept of green homes include minimizing the use of natural resources when the home building process, choosing environmentally friendly building materials, the presence in the home garden, as well as choosing the right energy-saving lamps in order to conserve electricity efficiently. To build this type of housing is not too costly.
1. **Furniture made with reclaimed materials**

Reclaimed wood usually comes from old furniture, houses, or other built things that are ready for some friendly reincarnation, from flawed wood, or from scraps from a factory that makes other stuff. Some reclaimed wood even comes from logs that sunk to the bottom of rivers as they were being floated downstream to the sawmill, or from the bottom of man-made reservoirs. Either way, furniture made from reclaimed wood is a great example of resource efficiency, but usually comes in shorter supply.

2. **Bamboo**

Most bamboo comes from East Asia and Southeast Asia and is grown with few of no pesticides. Because it is so fast growing, it is much easier to maintain healthy bamboo forests. This also means it uses a lot of water, however, and harvesting too fast can deplete soil fertility. Some growers do use pesticides and other chemical inputs, however, so keep that in mind. But for the most part, bamboo is one of the greenest materials around.
3. Recycled/recyclable metal and plastic

Since both metal and plastic are recyclable, at least in theory, these can be considered eco-friendly materials for furniture. More and more furniture is being made from recycled plastics and metals as well, like the recycled aluminum Icon Chair.

4. Recyclable and disassemblable

Good eco-friendly furniture should lend itself to easy repair, disassembly, and recycling.

5. Look for furniture that's durable and fixable

One of the most important but often overlooked aspects of green products (and this definitely goes for furniture) is durability. If something is tough and/or can be readily repaired, this lessens the chance that it'll end up in the landfill, and could easily save you money in the long run, even if it's initially more expensive.
STUDY OF LITERATURE

STUDY ABOUT RECYCLED FURNITURE

6. Low-toxicity furniture

Look for furniture that is untreated or treated with natural substances, like natural wood finishes, or naturally tanned leather. Organic cotton is also less likely to be treated with toxic stuff. Another great way to dodge toxic chemicals is to buy furniture that is vintage or second-hand.

4. Buy local

Piece of furniture might have had to travel in order to reach us. If possible, source furniture close to home. This will support the local economy, small craftspeople, and decrease the environmental cost of shipping (not to mention the other kind of cost).
Modern architecture is a term given to a number of building styles with similar characteristics, which give priority to simplicity of form and remove all kinds of ornaments. First appeared in about 1900. In 1940 this force has been strengthened and recognized by the International Style and became the dominant building for several decades in the 20th century.

Other architectural styles that look modern as something controlled by technology and product development and with the advent of the materials used in building material stylish modern buildings such as iron, steel, glass and concrete knowledge that adds a modern style is a new discovery in bidanga Revolution industry. In 1796, Shrewsbury ohwis design style is 'fire-resistant', which is where this style rests on cast iron and brick. Such construction greatly strengthened the structure of the building, which allows them to accommodate much bigger machines. Respect the views of modern historians as a reaction against the eclectic style and devote their attention to the Victorian era and style of Art Nouveau style.
**STUDY OF LITERATURE**

**STUDY OF MODERN BUILDING IN ARCHITECTURE**

Modern design means free of ornaments and express precision machine language, perfectly innocent, box, simple, and severe.


**Materials**
- Alumunium ( Le Creusor: 1920 )
- Stainless Steel (Welden:1939)
- Bakelite (Leo Baerland: 1907)

**Characteristics**
- Form ever follows function
- Simply and efficient
- Geometrical Shapes
- Ornament is crime

Sunarya, Yan Yan.
"Sejarah Seni Rupa dan Desain Modern", ITB

**Materials**
- Alumunium was used for its window frame at home.
- SS was used for its gridlines on wooden panel.
- Bakelite was used for its electrical nonconductivity, and heat-resistant properties in electrical insulators, radio and telephone casings.

http://en.wikipedia.org/wiki/Bakelite

**Modern Colors**
Firmly Symbol

Silver color in history came from shinning knife said Henry Van de Velde became to modern image.

White color in history sourced from white house at main show in 1927 by Deutcher Werkbund.
STUDY ACTIVITIES, FURNITURE AND RATIOS
<table>
<thead>
<tr>
<th>No.</th>
<th>Activity</th>
<th>Room and Facilities</th>
<th>Furnitur e Size</th>
<th>Ratio</th>
<th>Total Requirements Area</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Place to receive guests and a record that will register and stay in guesthouse</td>
<td>Recepcionist - Reception Desk</td>
<td>250x50 = 12500</td>
<td>1 : 4</td>
<td>18 + 72 = 90 m²</td>
<td>Customer Staff</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- 2 Staff Chair</td>
<td>= 1.2 m²</td>
<td>18x4 = 72</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- 1 Sofa</td>
<td>2(50x50) = 10000</td>
<td>= 1 m²</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- coffe table</td>
<td>1(270x148) = 40000</td>
<td>= 4 m²</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Pamflet Rack</td>
<td>1(50x100) = 5000</td>
<td>= 0.5m²</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Information Board</td>
<td>1(114x42) = 5000</td>
<td>= 0.5 m²</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Indoor Garden</td>
<td>1(180x350) = 63000</td>
<td>= 6.3 m²</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1(176x220) = 39000</td>
<td>= 4 m²</td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total = 18m²</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Gathering place, socialization. Just eat and drink.</td>
<td>Cafe</td>
<td>1 : 4</td>
<td>42.6 + 164 = 206.6 m²</td>
<td></td>
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</tr>
<tr>
<td>- 4 Square Wood Table</td>
<td>4(90x90)=8100 = 0.8 m²</td>
<td>41x 4 = 164</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-20 Chair</td>
<td>20(50x50)=50000 = 5 m²</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Bar Table</td>
<td>1(395x110)=43450 = 4.4 m²</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Bar Stool</td>
<td>3(45x45)=6100 = 0.6m²</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Bench Table</td>
<td>2(150x170)=26000 =2.6m²</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- 3 Small Square Wood Table</td>
<td>3(60x60)=10800 =1.1m²</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- 2 Object decoration (Small Bridge)</td>
<td>2(120x150)=36000 =3.6 m²</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Kitchen</td>
<td>1(550x400)=220000 =22 m²</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Toilet</td>
<td>1(300x300)=9000 =0.9 m²</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Total = 41 m²
### STUDY ACTIVITIES, FURNITURE AND RATIOS

<table>
<thead>
<tr>
<th>No.</th>
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<th>Room and Facilities</th>
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<th>Ratio</th>
<th>Total Requirements Area</th>
<th>Subject</th>
</tr>
</thead>
</table>
| 3.  | To gather data guesthouse income, and employee data that works and also, customers who stay at guesthouse | Offices  
-8 Staff Tables  
-8 Chairs  
-1 Medium Cabinet  
-1 Large Cabinets  
-1 Photocopier  
-1 Counter Table |  
- 8(106x53 ) = 70400  
8(106x53 ) = 70400  
8(40x40) = 12800  
1(300x50) = 15000  
1(415x50) = 20750  
1(130x60) = 7800  
1(200x75) = 15000 | 1 : 3  
1 : 3  
1 : 3  
1 : 3  
1 : 3  
1 : 3  
1 : 3 | 14 x 3 = 42  
14 x 3 = 42  
14 x 3 = 42  
14 x 3 = 42  
14 x 3 = 42  
14 x 3 = 42  
14 x 3 = 42 | 14 + 42 = 56 m² | Staff |
<table>
<thead>
<tr>
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<th>Ratio</th>
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</tr>
</thead>
</table>
| 5.  | Break after doing a lot of activity, sleep, and socialize with relatives | **5 Double Bedroom**  
- 10 Beds  
- 4 Sofas  
- 4 Dressers  
- 15 Bedsides  
- 5 Dressing Tables  
- 5 Room Decoration |  
10(192x100) = 192500  
4(140x76) = 42560  
4(158x40) = 25280  
15(60x60) = 54000  
5(153x50) = 38250  
5(60x60) = 18000  
Total = 37.8 m² | 1 : 4  
37.8x4 = 151 | 37.8 + 151 = 188 m² |
|     | Customer And Staff |                     |                |       |                        |
| 6.  | Break after doing a lot of activity, sleep, and socialize with relatives | **3 Single Bedroom**  
- 3 Beds  
- 3 Bedsides  
- 3 Sofas  
- 3 Dressers  
- 3 Room Decoration |  
3(200x120) = 72000  
3(60x60) = 10800  
3(80x75) = 18000  
3(120x70) = 12500  
3(60x60) = 25200  
Total = 13.9 m² | 1 : 4  
13.9 x 4 = 55.6 | 13.9 + 55.6 = 69.5 m² |
|     | Customer And Staff |                     |                |       |                        |
### STUDY ACTIVITIES, FURNITURE AND RATIOS

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</tr>
</thead>
<tbody>
<tr>
<td>7.</td>
<td>Break after doing a lot of activity, sleep, and socialize with relatives</td>
<td>2 Deluxe Bedroom</td>
<td>2(200x173) = 69200 =7 m²</td>
<td>1 : 4</td>
<td>52 + 13 = 65 m²</td>
<td>Customer Staff</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-2 King Size Beds</td>
<td>2(60x60) = 7200 =0.7 m²</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>-2 Bedside</td>
<td>2(50x50) = 5000 =0.5 m²</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>-2 Sofas</td>
<td>2(150x50) = 15000 =1.5 m²</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>-2 Dressers</td>
<td>2(120x80) = 19200 =0.6 m²</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>-2 Tables</td>
<td>2(50x50) = 5000 =0.5 m²</td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td>-2 Chairs</td>
<td>2(50x40) = 2000 =0.2 m²</td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>-2 Room Decoration</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Total = 13 m²</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Break after doing a lot of activity, sleep, and socialize with relatives</td>
<td>2 Suite Room</td>
<td>2 (200x173) = 69200 = 7 m²</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>2 King Size Beds</td>
<td>2 (60x60) = 7200 = 0.7 m²</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-2 Bedsides</td>
<td>4 (210x173) = 145320 = 15 m²</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-2 Sofas</td>
<td>2 (297x66) = 40000 = 4 m²</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>-2 Dressers</td>
<td>2 (102x67) = 13668 = 1.4 m²</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-2 Tables</td>
<td>2 (50x50) = 5000 = 0.5 m²</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-2 Chair</td>
<td>6 (50x40) = 12000 = 1.2 m²</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-6 Room Decoration</td>
<td>6 (240x60) = 57600 = 5.8 m²</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-4 TV Racks</td>
<td>2 (90x50) = 9000 = 1 m²</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-2 Coffe Table</td>
<td>Total = 36.6 m²</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| 1 : 4 | 36.6 x 4 = 146.4 |

| 36.6 + 146.4 = 183 m² | Customer Staff |
ANALYSIS
ANALYSIS

Based on the interpretation of the results of the calculation data obtained from research, obtained the important points as follows:

1. The age of the respondents of the questionnaire data obtained that the majority of respondents who are students S2 MMT-ITS at the age of 24-25 years.
2. Origin City from the questionnaire were 60 MMT-S2 student correspondent that most of the students ITS S2 MMT-ITS as many as 20 of the 60 respondents residing in the area of Surabaya, and 40 of 60 residing in areas outside of Surabaya.
3. From the results of the questionnaire were 60 MMT-S2 correspondent ITS students that most students MMT-ITS S2 states Want the construction of facilities and its guesthouse and interior design guesthouse.
4. The design of the interior design guesthouse is divided into five types, namely the classic design, eclectic design, eco-modern design, modern design futuristic and retro design. Outside option which allows correspondent choose interior design character that is not in accordance with the available options. And the results of the questionnaire showed that eight of the 60 student-ITS S2 MMT was educated there choose themed interior design classic, 10 of the 60 students chose the theme of interior design eclectic, 30 of 60 students choose the interior design of modern eco-themed, 16 of 60 students choose a modern interior design theme futuristik, and six of the 60 students chose a retro-themed interior design. And the above conclusion can be found that respondents who are students S2 MMT-ITS Surabaya choose the interior design concept with modern eco-theme.
5. Support facilities at the guesthouse to be added into 6 types, namely clothing, laundry, parking area, auditoriums, parks, bars, and restaurants. And outside options that allow the correspondent wrote supporting facilities at the guesthouse that is not in accordance with the available options. And the results of the questionnaire were 60 correspondents prioritize supporting facilities such as clothes, laundry, spacious parking lot, and park in the interior design plans building a guesthouse in MMT-ITS.
6. Results of the questionnaire showed that 20 of 60 students who are studying S2 in MMT-ITS choose guesthouse rental price range Rp 300,000 - Rp 400,000, 30 of 60 students choose guesthouse rental price range for between Rp 400,000 - Rp 500,000, 8 of 60 students choose guesthouse rental price range for between Rp 500,000 - Rp 600,000, and 2 of the 60 students chose a guesthouse rental price range with rents between Rp 600,000 - Rp 700,000.
### Analysis Space Relation

#### Matrix Diagram

<table>
<thead>
<tr>
<th></th>
<th>MUST BE CONNECTED</th>
<th>SHOULD BE CONNECTED</th>
<th>NO CONNECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entrance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lobby Receptionist</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cafeteria</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auditorium</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parking Lot</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Visitor Toilet</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Double Bedroom Area</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single Bedroom</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deluxe Room</td>
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<td></td>
</tr>
<tr>
<td>Suit Room</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front Offices</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Warehouse</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Laundry Room</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kitchen</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maintenance Room</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Employees Toilet</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Types of Spaces

- **Public**
- **Semi-Private**
- **Private**

---

This matrix diagram illustrates the relations and connectivity between various spaces within a facility, categorizing them into public, semi-private, and private zones.
ANALYSIS SPACE RELATION
EXISTING STUDIES

Jl Cokroaminoto 12A, Surabaya, East Java 60264
EXISTING STUDIES

Jl Cokroaminoto 12A, Surabaya, East Java 60264
<table>
<thead>
<tr>
<th>Objective</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Jumlah</th>
<th>Ranking</th>
<th>Bobot</th>
<th>Bobot Relatif</th>
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<tbody>
<tr>
<td>Eco-Friendly</td>
<td>-</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>I</td>
<td>10</td>
<td>10/28 0.4</td>
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<tr>
<td>Modern</td>
<td>0</td>
<td>-</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>II</td>
<td>8</td>
<td>8/28 0.3</td>
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<tr>
<td>Sirkulasi</td>
<td>0</td>
<td>0</td>
<td>-</td>
<td>1</td>
<td>1</td>
<td>III</td>
<td>6</td>
<td>6/28 0.2</td>
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<tr>
<td>Multifungsi</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>-</td>
<td>0</td>
<td>IV</td>
<td>4</td>
<td>4/28 0.1</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Objective</th>
<th>Bobot</th>
<th>Aspek Penilaian</th>
<th>Alternatives 1</th>
<th>Alternatives 2</th>
<th>Alternatives 3</th>
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</thead>
<tbody>
<tr>
<td>Eco-Friendly</td>
<td>0.4</td>
<td>Penggunaan material yang ramah lingkungan</td>
<td>mag</td>
<td>score</td>
<td>value</td>
</tr>
<tr>
<td>Modern</td>
<td>0.3</td>
<td>Bentukan furnitur, dan partisi</td>
<td>mag</td>
<td>score</td>
<td>value</td>
</tr>
<tr>
<td>Sirkulasi</td>
<td>0.2</td>
<td>Sirkulasi ruang, sirkulasi udara, kelengkapan fasilitas</td>
<td>mag</td>
<td>score</td>
<td>value</td>
</tr>
<tr>
<td>Multifungsi</td>
<td>0.1</td>
<td>Mudah digunakan dan lebih memiliki banyak fungsional</td>
<td>mag</td>
<td>score</td>
<td>value</td>
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</tbody>
</table>
DESIGN CONCEPT
DESIGN CONCEPT

AN OVERVIEW NUANCES
- The shape is more inclined to have in common with the minimalist style formation
- Minimize the formation of complicated ornaments
- The use of wood and stone materials of natural stone and recycled materials that illustrate the concept of eco-friendly building.

SHAPE, MATERIAL, AND FINISHING
WALL
Generally using unfinished materials, wood materials that have been recycled so that to get an impression of environmentally friendly
FLOOR
In general the floor using the floor using wood pallet material, plaster, and natural stones which can give the impression of environmentally friendly
CEILING
Using the exposed wood construction. Besides looking into building a buffer timber
FURNITURE
Shape or aesthetic in furniture and furniture featuring a minimalist shape with wood materials and recycled materials so that give the impression of a beautiful and environmentally friendly
AESTHETIC
Using a metal material, wood or recycled materials that will be placed in some corner of the room
COLOR
The use of color in the room mayorutas use colors closely related to environmentally friendly ie green color depicting plants and wood accent color brown, and white color so that gives modern accent that looks clean and tidy

ATMOSPHERE
LIGHTING
Natural lighting because the majority of these buildings have many openings will be made also assisted by artificial lighting in the area covered
AERATION
Artificial aeration is more dominating than natural aeration

- Lighting and activities suit the needs of an area.
- Semi-outdoor atmosphere on possible areas.
**DESIGN CONCEPT**

**MACRO**

**INTERIOR DESIGN PLAN GUESTHOUSE MMT-ITS**

**ECO-FRIENDLY MODERN**

**FORMING MATERIAL, AND FINISHING**

**FLOOR**
- On commonly the floor using the floor using wood pallet material, plaster, and natural stones.

**WALL**
- Generally using unfinished materials, wood materials that have been recycled so that much get the impression environmentally friendly.

**CEILING**
- Using the exposed wood construction. Besides looking into building a buffer timber.

**LIGHTING**
- More use of artificial lighting, but in certain area of will be given natural lighting.

**FURNITURE**
- Form of furniture, and aesthetically, displays a minimalist shape with wood materials and recycled materials.

**AERATION AND SECURITY**
- Artificial aeration is more dominating than natural aeration. Required cctv, fire extinguishers, fire detector and sprinkle.

**STYLE FORM**

**COLOUR**
- The use of color in the room using the majority of the color is closely related to environmentally friendly plant that is green color and the color brown wood accents, and white color so that gives modern accent that looks clean and tidy.

**SHAPE**
- Minimalist, unique and strong textured surface.

**AESTHETIC**
- The use of wood materials that have been recycled and shaped modern formations as a display or as aesthetic.
**DESIGN CONCEPT**

**MICRO FLOOR**

**MATERIAL**
- PARQUET: Can give the impression of comfortable and warm, especially in indoor rooms for visitors.
- CONCRETE PLASTER: Support the impression of masculine and modern in a room.
- NATURAL STONES: Natural stone will give a natural feel to a room and give the impression of environmental friendliness.

**COLOUR**
- GREEN: The green color gives the impression of a comfortable, fresh and environmentally friendly.
- BROWN: Brown color gives the impression of a warm and intimate.
- WHITE: White color will give a modern look that is clean and tidy.
DESIGN CONCEPT

MICRO

FLOOR

PARQUET

CONCRETE FLOORING

NATURAL STONE FLOORING
Surface are left with a rough textured cement.

Painting in the reception area with a green color with white color combination.

On some areas there were only walls scrubbed and are left impressed unfinish.
DESIGN CONCEPT

MICRO

WALL

WOOD WALL

BRICK WALL
On wood material, will be left in its natural materials and has been recycled and decent to use.

On exposed concrete materials, finishing used was finishing paint.
For the shape of furniture that will be applied are likely to have formed a minimalist and more towards the formation of furniture that is closely related to the natural analogy.
FURNITURE
MICRO

Design Concept

Recycle Material Furniture
LIGHTING

METHOD

NATURAL LIGHTING

ARTIFICIAL LIGHTING

FORMS OF NATURAL LIGHTING

Priority to certain areas

FORMS OF ARTIFICIAL LIGHTING

As the main lights in a room.

GENERAL LIGHT

DOWN LIGHT

TASK LIGHT

ACCENT LIGHT

HANGING LAMP

Illuminate certain areas and indoor areas can also be as aesthetic elements.
AESTHETIC
MICRO
AERATION
SECURITY

DESIGN CONCEPT

Air Curtain
Ceiling Universal
Ceiling Cassette
Wall Mounted
DESIGN CONCEPT

MICRO

AESTHETIC ELEMENT
1. Visitors can visit the guesthouse, cafeteria, and auditorium.

2. Visitors can stay at guesthouse with the availability of several types of rooms.

3. Visitors can relax with colleagues after doing daily activities.

4. Visitors can enjoy laundry facilities provided by the guesthouse.

5. Visitors can take a park in large parking lot.

6. Visitors who stay may enter at any time in his room, but other guests may enter if permitted by visitors staying.

7. Front Offices Area should only be entered by guesthouse MMT-ITS employees.

8. Visitors feel comfortable in their activities.

---

**BUILDING LAYOUT**

Interior Design Plan MMT-ITS along with other facilities in the area.

**SUPPORTING FACILITY**

There are additional facilities including:
- Cafe
- Auditorium
- Laundry
- Large Parking Area

**ZONING AREA**

Divided into three areas: public, private, and semi-private. Public areas are areas used by all visitors, private area for employees only. And a semi-private area is an area that can only be used by a visitor who was there on purpose.

**SERVICE AND CIRCULATION**

Good service as well as the needs of the area connected with the assessment of the relationship between the ratio and the space to create a comfortable circulation conditions.
THANK YOU FOR THE ATTENTION