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### ALTERNATIVE DESIGN AND PRODUCTION (TILE) ORNAMENT CERAMICS FOR AESTHETIC HOME DECORATION

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**Keywords:** Ceramics, Pattern, Design, Home Decoration.

#### ABSTRACT

Decorative Ceramics is a term for a type of tile made from processed cement and has a visual element on its surface. On the surface there is an ornament image, which is a decorative image that forms decorations with plant patterns such as flowers, leaves and geometric areas, such as triangles, squares and circles. These decorated ceramics have been around for a long time, found in several areas that have local values as an area where the community is sufficiently calculated or an area that has historical value. Ornamental ceramics are installed on the wall or floor as a support for decorative elements to create a more memorable atmosphere. The patterns of decorated ceramics can be developed into several alternatives to add and create added value to the material. The more alternatives, it is possible that there will be more enthusiasts. With the many choices in this Decorative Ceramics, it will add excitement in supporting creating a spatial atmosphere in housing and living environments for all of us.

**Keywords:** Ceramics, Pattern, Design, Home Decoration.

#### I. INTRODUCTION

##### *1.1. Background*

In general, a dwelling in a house prioritizes the need for cleanliness. In addition to aesthetics, a sense of the beauty of the layout in the house, as well as the environment that must be clean as a condition for the feasibility of living. A dwelling is also inseparable from aesthetic value. This aesthetic value can be built from several elements, such as good, comfortable and pleasant spatial planning. The form of a room or building that is either inside or outside it. Other aesthetic values can be built from the arrangement of a garden or hallway with good lighting arrangements, and of course many other aesthetic elements and elements.

One of the elements to support a better and more pleasant atmosphere in a room is the tile element. This ceramic element is an alternative as a material in

a room in the house. Various types of ceramics are widely available which serve as a supporting element for spatial planning. In general, pictorial ceramic materials can be used or placed in various fields, especially on walls and floors.

This phenomenon that is currently in high demand is a type of ceramic pictorial (as shown). Now that pictorial ceramics are emerging again, with relatively small sizes, such as sizes 10x10cm or 20x20 have been widely used as an option to be placed on a wall. These ceramics can add quite striking value to a space. Can also be used to emphasize the aesthetic value of the atmosphere of a room. These ceramics are generally placed on a kitchen wall. Installed like a panel that is lined with contrasting colors. Various patterns, models and dominant colors adorn the eyes of the naked eye. While the styles used, starting from geometric styles or images, in the form of flora. With a decorative style approach that is characteristic of this ceramic ornament image. As for materials and materials for making ceramics, cement and sand usually use a molding process.

### ***1.2. Research focus***

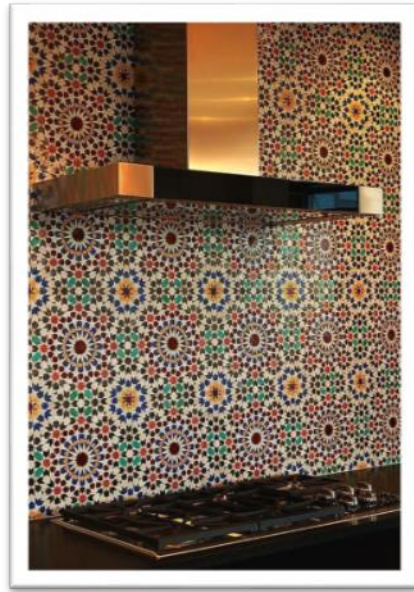
With a variety of styles and patterns on the ceramic surface, it will certainly be an attraction to be appointed as study material for a series of research activities. The research activity will emphasize the analysis of the patterns and the making of the designs contained in these ceramics. With this research model will give birth to an alternative style to provide a vehicle of choice for users in the field of ceramic design. To make naming easier for research activities, this subject is given the term Decorative Ceramics.

### ***1.3. Formulation of the problem***

Then it can be described about a problem formulation so that research activities can be clearer, from the explanation above it can be formulated regarding the formulation of the problem as follows; How do you make an alternative design for decorative ceramics on that ceramic tile? The next is How can the users of decorative ceramics be presented with a variety and other alternative styles? With the two variables above, it can be given an overview of alternative designs on the ornate ceramic surface.

### ***1.4. Benefits / Usefulness of Research***

The activity of this research will provide an overview and use for artists or creators in providing a development discourse in the field of Decorative Ceramics design, while for those who use and choose Decorative Ceramics, it will provide a vehicle for treasury in managing the house, for service makers movers. carpentry, interior, property and environmental planning in general.

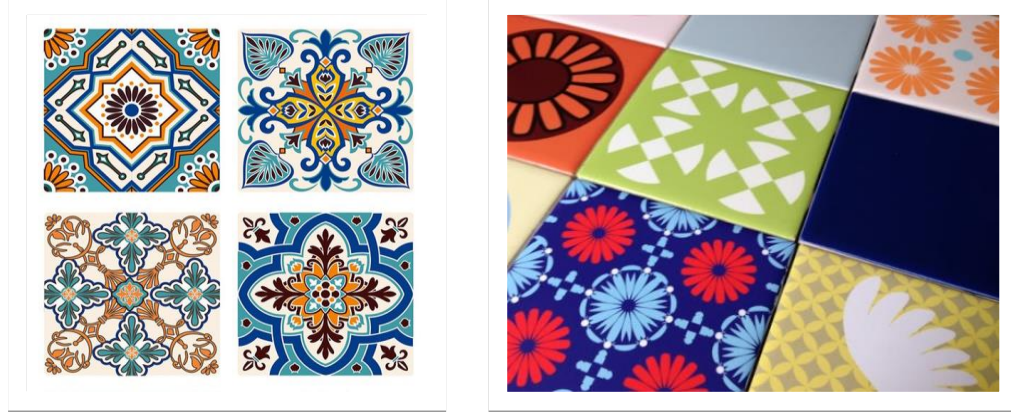


#### ***a. Field Phenomena and Facts***

These decorated ceramics have been growing in certain areas in Indonesia for a long time, especially on the island of Java. Many are stored or used in old buildings (heritage). Shifting from the interior into urban areas which are adopted from old styles, they will not know what style they make. So many patterns are used that there are various very interesting ones. Basically, it is processing an ornament image that is applied to a tile or ceramic. At the present time, the ornament on decorated ceramics has shifted into an aesthetic appeal for interior and architectural designers. With a very traditional process but has a very romantic aesthetic value. Even in parts of Europe and the Middle East, this style has long emerged, such as the Moroccan style (Morocco ornament image) which is very popular as a stunning ornamental ornament. Morocco ornaments are actually very intricate and complex, but have a magical value that is very thick with the creation of an atmosphere in a space. Ornamental Ceramics are no less attractive as a variety of aesthetics that have a selling point. With distinctive coloring, the contrast tends to be striking and complicated, but in fact consumers have their own perception of the variety of these decorated ceramics. There is one of us in arranging and arranging colors in a space, users don't need to be afraid of striking colors, it will become a spot to attract attention.

The growth of development needs in the housing sector continues to increase even though there are unfavorable assumptions, this will show that the need for room decoration in housing will continue to increase in line with this growth. If you look at this, it can be assumed that the need to support various aesthetic preparations in a room will continue to increase. Home decor will be an opportunity as an alternative to services in this field, showing the need for ornamental ornaments to support the aesthetics of space will continue to be sought as an alternative to developing a more attractive and pleasant atmosphere. Meanwhile, this creative space player in the field of Decorative Ceramics is still so rare when compared to ceramics made by mass factories. Why is that because manufactured ceramics as standard materials and

preparations are made to meet many needs. While this type of Decorative Ceramics is not the case, it is unable to compete, so its role is as an additional supplement in terms of home decoration. In the image below, we will try to explain an aesthetic comparison between the processed ceramics as described above.



The two pictures above show two different patterns in the production of ceramics for the aesthetic needs of home decor. In the picture on the left is the pattern that is applied to the cement product (cement tile) and the image on the right is the pattern that is placed on the tile (tile porcelain). Indeed, both of them have different functions, where one is used only for walls and the other is widely used on the floor. But the reality in the field is that exploration of the two types of aesthetic needs to support the aesthetics of home decor will mostly choose cement ceramics. Therefore, to develop an alternative to product development from decorated ceramics will be an opportunity as well as a challenge in making design alternatives.

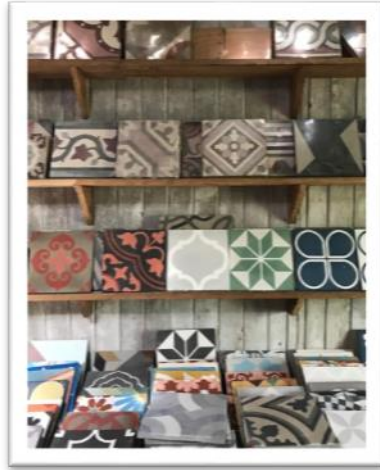
The need for supporting elements of room decoration based on processed materials from ceramics which tend to be liked by many consumers, it is very natural that we can present something new or something that tends to be rare and different.

If you look at the ceramic products that are on the market so far, you will have problems. Among them are the limitations in choosing various patterns in the form and material of manufactured ceramics that are very rare. In the form of the manufacturer will use a lot of granite or marble, and this material will have a fairly high thickness. It would be different if the choice fell on ceramics made of cement as described above. So with two compositions of tendencies it will be seen that an opportunity can create a measureable, good and precise design planning step as a supplement to building materials.

### ***1.3 Findings and Problems***

From several studies on empirical observations as well as field observations, it shows the fact that to get decorative ceramics is very difficult to get a more diverse one, so almost most consumers will choose to adjust to existing materials or materials. In fact, it tends to be only in a certain area, meaning that it is not evenly distributed in every building shop.

Showing variants of the patterns, motifs and visual styles or images of each Decorative Ceramic has not been much exploratory done to be able to compete as a selling power or consumer interest in the field of home decoration.



There is still mostly only the standard size of cement tiles, which is 20x20 cm in the old model (Figure cement tiles). Size shows only the needs for the use on the floor, whereas if there is installation done on the wall is another aesthetic exploration.



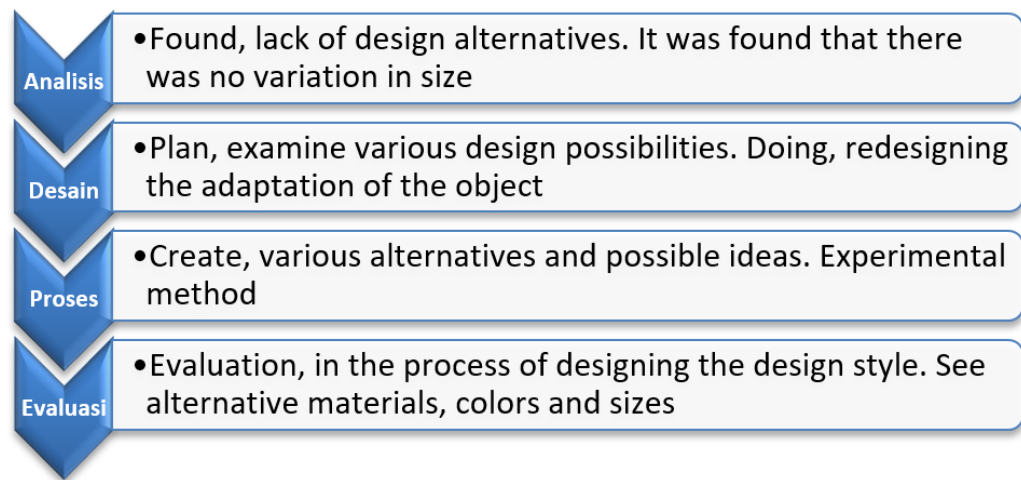
Each piece of Ornamental Ceramic shows a continuous image pattern (contunius form) and a single object. The pattern shows that each image can be adjusted according to the amount of land for the installation of the material. The dimensions of cement tiles are still standard, the building needs range from 20x20x2 cm as the standard size, meaning that there is an opportunity if it will be developed in terms of shape dimensions. The coloring still tends to revolve around dull, non-contrasting colors like imported products. This technique cannot be optimized yet because the color formula to be able to blend or stick to the cement surface needs to find a separate method, because the work process of this process uses a combustion mold. In terms of thickness so as to produce heavy loads, the type of cement tile has a thickness of 2 cm, meaning that it has a weight of +/- 2.5 kg.



From the observation activities so that getting some of the descriptive notes above, it can be assumed that there will be several obstacles if the research must refer to cement tile products as described above. Thus, the research activity will show the two variables mentioned above, namely between the results of field observations juxtaposed with alternative creativity thinking by means of an experimental model.

#### ***1.4 Design Solutions***

In research activities, the most effective steps are needed to show where each step and activity will be an appropriate part of the process, as well as carry out the study stages in each of these processes. So to find a way out as an alternative and a design solution can be described as follows;



In some of the stages above, it will show and provide an accurate description of each step to produce the desired design process, then the description is as follows;

#### ***Analysis Stages***

1. Lack of variants or design alternatives of the ornamental ceramic type. It needs to be made and developed in order to get a choice for consumers to take advantage of decorated ceramics as a material in home decoration.
2. There is no size and other alternative materials, showing that it is a locally processed product that should be potential for local product development.

#### ***Design Stages***

1. The process at the design stage will only relate to the making of alternative designs or design motifs as a design variation in Decorative Ceramics
2. Re-designed some of the designs that have been done. Provides an alternative to the style or pattern of the Decorative Ceramic surface.

#### ***Process Stages***

1. At this stage of the design process, the design is carried out with some software in accordance with the design needs.

2. The approach model in the design process is an experimental model of various possible styles and patterns of ornamental ceramics. The experimental model is the most effective method of approach in design work.

### ***Evaluation Phase***

1. At the evaluation stage, it is necessary to relate to an appreciation of the design style and pattern. Observations were made and the suitability of the composition in terms of hue and coloring
2. The possibility to conduct an evaluation of alternative material selection, size and process that can be developed.

## **2. LITERATURE REVIEW**

### ***2.1 Reference and Design Theory***

Aesthetics are important in human life, humans need to live, need space and need beauty. Beauty can be obtained from two things, natural beauty directly like enjoying nature and the second is artificial beauty or made by humans.

In planning a space, of course, we need a concept of how all the elements in that space can support each other so that it can create added value for its users.

One of the most abundant elements, even a kind of primary requirement for the element of space, is to use materials or materials from ceramics. This ceramic will create its own impression of the atmosphere according to the characters and materials and patterns available. So do not be surprised if in a house there are almost every corner using materials from ceramics.

Many types of ceramics are sold freely in the market, starting from the type, pattern or motif, material and size, this shows that there are many enthusiasts to meet the needs of a fairly decent shelter. One of the types of ceramics, there is a type of ceramic made of cement with the term *lamu* called tile. The tiles have a size of 20x20 cm, made of processed cement, then the printing and drying processes are carried out. The smooth surface is made of drawing with a decorative drawing approach.

Several terms are referred to as tile ornaments. It has always been a characteristic of many people who are considered capable of having a large enough place to live. So it will rarely be found in ordinary houses. Its development is an inspiration for service actors in the home decoration field. In Middle Eastern European countries, this kind of tile style adorns many luxurious residences, palaces and places of worship which tend to have quite large capacities. So this kind of aesthetic journey continues to develop to several other states, including Indonesia.

In the aspect of composing a composition in a field, a method or method is needed in accordance with the material and function to be used, such as making and composing a composition in the ceramic plane. It takes a method and experience that can do this. In choosing the elements of color, shape and characteristics of the concept into a visual wujud. So special handling is

needed to become a manifestation and aesthetic value that can have an appreciative value in society.

### 3. RESEARCH METHODS

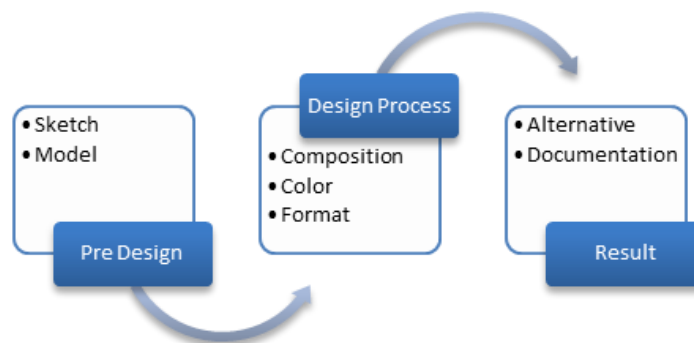
#### 3.1 *Experimental Model*

1. To find a more concrete step, it is necessary to carry out several tests on design making, many modeling approaches as well as ways and steps to realize a research work, so for making decorative ceramics modeling is done with an experimental model. This experimental model will provide practice value by direct testing of the subject carefully. In the process of the experimental method, several steps are carried out as follows;
2. Visual observation of several tile cement products, observing several media. Looking at the possibilities from several viewpoints about design, including; composition, color, style or pattern, strokes, texture and design techniques
3. Conducting trials with software that is considered to represent the most effective and efficient design process
4. Documenting some of the results of the creative process of making decorative ceramic display designs

Presets or discussion groups are created to find common perceptions about the designs that have been produced.

#### 3.2 *Stages of Experiment*

Process in the chart and observe the experimental process.



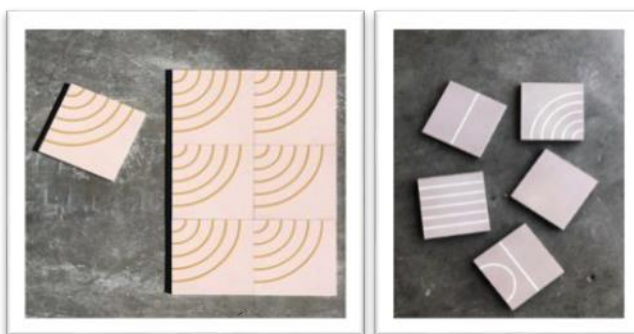
### 4. RESULTS AND DISCUSSION

#### 4.1. *Decorative Ceramic Model with a sketch model stage*





Experimental models, at the sketching stage, can be carried out with various models with the conceptual approach of shapes, lines, fields and textures as basic elements to form a visual form. The composition of the plane can be done by means of symmetrical or unsymmetrical patterns. But most of the symmetrical patterns are more widely used because they are a pattern as a mesh image.



Symmetrical patterns can also be divided into several pieces so that the patterns can relate to one another to become a complete feature of the pattern system. In this modeling, it is usually done either the model that is applied to cement tiles or ceramic tiles which are sold freely. As a consideration for the element of space.

### *Ornamental Ceramic Model of the use of color elements*

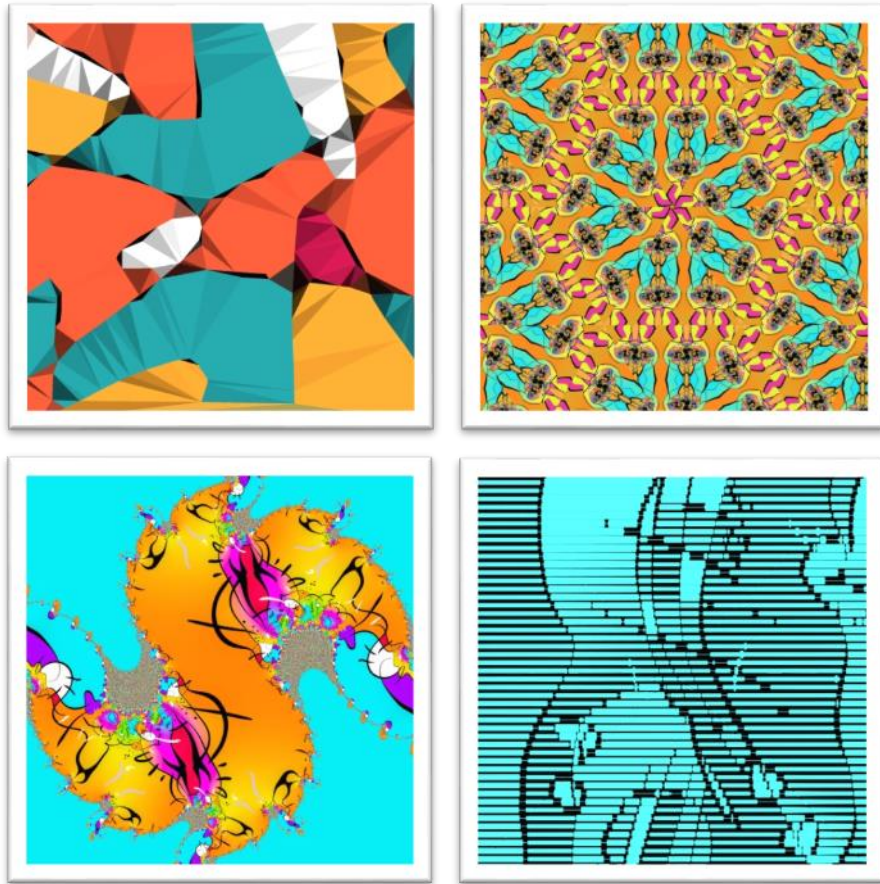


Filling the color elements by means of the full color technique or several selected color elements as a composition to adjust to consumer tastes. The choice of color can be adapted from several aesthetic styles and perspectives, such as pop, classic or modern and millennial styles.



For technical matters, it is very easy to multiply the material by means of tile printing technology. Several managers in the supporting tile sector have moved forward, meaning that visual techniques will not get into significant obstacles. The drawing technique used to be quite simple with a flat or flat style. The present era can be technical with light and dark elements.

### 4.3 Decorative Ceramic Models use practical techniques



This technique is by approaching the spatial or dimensional depth impression, or by approaching repeated images, rotation, parallel or overlapping. Practical design models are still considered rare because this style is still a lot in the fashion field. Maybe on the technical side, practical design if it is made manual techniques will experience problems. Practical easy design with spatial color printing techniques.



Several engineering trials using the device as well as post-production support provide an opportunity for creators in the field of ceramic design.

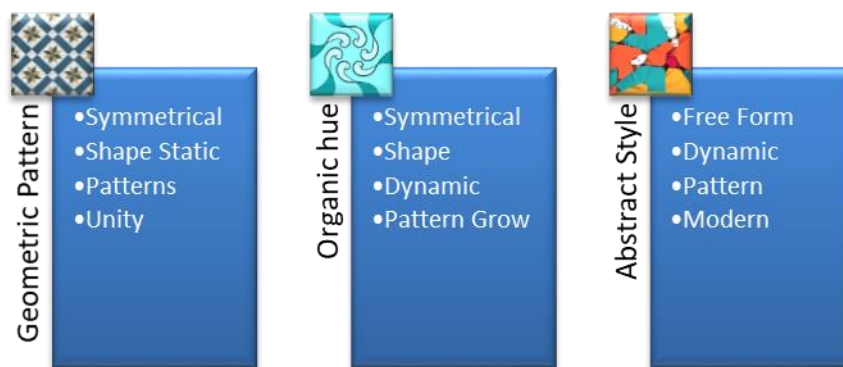


Will provide more opportunities in developing creativity and productivity. The design style as in this experiment has been taken into consideration by several technical designs and production techniques, whether made in bulk or special order services. As stated above, technically there will be no obstacles, this is part of the solution and the result of the final work.



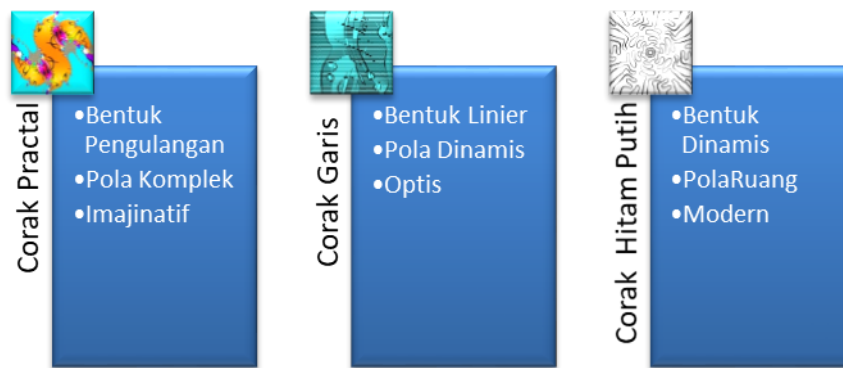
Some things that need to be stated from the results of the experiment to improve the alternative design of this decorative ceramic is that it is necessary to make a classification of the model or pattern that is likely to continue to develop, so that it can be defined according to the rules in design planning as follows.;

Look at the chart in the column below



The visual classification above is to assist in the guide directing pattern making and creating documents so that each result can be produced based on quantity and need. The pattern evaluation step can be started from how the classification works of the shape that is produced.

There will be many possibilities and alternatives to be found in producing Decorative Ceramic designs, besides the design it is also related to technical and other creative forms. In this process, the possibility of 3D (three-dimensional) patterns is also found, namely the impression of the effect of space and depth due to the overlapping factor of the shape of the plane, or the repetition of shapes or the influence of contrasting shapes between one plane and another.



From the two charts above, it can be coherent as follows;

1. Geometric Pattern □ Static pattern □ The existence of a hollow pattern
2. Organic Pattern □ Ornamental pattern □ Growth impression
3. Abstract Pattern □ Free pattern □ Modern dynamic impression
4. Practal style □ Rich pattern of repetition □ Imaginative impression
5. Line Pattern □ Regular pattern □ Optical impression
6. Black and white patterns □ Space patterns - Impressive memories

The description above only represents experimental activities, meaning that there can be more to achieve what is desired.

So thus the making of alternative styles for the media in Decorative Ceramics will be broad in support of aesthetic development in the field of home decorating. This field of research will certainly continue to develop and advance in the business and profession of Home Décor (home decor), residential carpentry, interior and architecture.

## 5. CONCLUSION

Decorative Ceramic Design is a term about items or material items from ceramic (tile). Decorative ceramics with a size of 20x20 cm are used as elements of decoration, to organize space, affixed to walls, floors or other spots to support a more pleasant atmosphere. In some areas these decorated ceramics are made of cement, also called tiles. With the printing process and press. Furthermore, given an ornament image on the smooth surface.

The variety of image patterns on Decorative Ceramics is well known, most of the drawings are in the form of flora and geometric elements. Using colors that are striking but a little dull.

The results of the research activity show that the design of decorated ceramics can be developed from the point of view of developing the design of the style. The opportunity to develop this pattern can be carried out by various approaches to ideas and thoughts that are poured into the concept of image planning.

There are several alternatives as a form of classification of patterns for Decorative Ceramics, including; Pattern development with geometric, organic, abstract, practical, line and black and white approaches.

So with a wide variety of patterns will provide added value for service actors in the field of residential carpentry, home decoration services, architectural interiors.

Decorative ceramics will be an alternative to support the aesthetics of space, more materials will be made by order or manufacturing services based on user requests, not like ceramics that are sold in many stores as in general.

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