

Research Article

Design of the Nirmana Dwimatra Teaching Material Book for Students of the Polimedia Photography Department

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Students in the Photography department will study various photography techniques and theories, such as portrait photography, landscape photography, product photography, and documentary photography. In the photography department, students will study the techniques and process of making images, which is a form of Dwimatra art. Through the Nirmana Dwimatra course, students will understand the techniques and methods for creating quality photographic works, which apply basic art concepts, such as perspective, color, shape, and so on. Apart from that, the Nirmana Dwimatra course can also help students in the photography department to develop their creativity and imagination, as well as understand how to combine techniques and concepts in the process of creating photographic works. Therefore, the Nirmana Dwimatra course is closely related to the photography department and can help students understand and practice photography well. Therefore, there is a need for effective and interesting teaching materials related to the Nirmana Dwimatra course specifically for the Jakarta Polymedia Photography Department.

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1. INTRODUCTION

Teaching materials are anything that is used to help the process of learning activities, in formal and non-formal education activities. Teaching materials can take the form of books, whiteboards, teaching aids, audiovisuals, and so on. Learning materials are components of the message content in the curriculum that must be conveyed to students.[1]The existence of teaching materials aims to facilitate understanding and enrich the insight of students or students in understanding the subject matter. There are special provisions in making teaching materials, namely, they must be well prepared and attractive with the aim of motivating students to learn and understand the subject matter well. Making good and effective teaching materials is very important because teaching

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materials will affect the quality of the learning process and student learning outcomes. Therefore, educators must design the production of quality teaching materials.

The Photography department is an educational program that emphasizes the technique and art of taking digital images using equipment called a camera. Students who take part in this program will learn various theories and practices in mastering the science of photography, such as shooting techniques, composition, lighting, digital image processing, etc. Photography is an artistic process that involves the use of light as a medium for painting or writing. In a general sense, photography refers to a method or technique for producing images or photos of an object by recording the reflection of light from the object on a medium that is sensitive to light, the most commonly used being a camera.[2] This department is usually offered at vocational arts schools or universities that have design or art faculties. Apart from that, this program can also be found at professional photography schools or at vocational schools.

One provider of photography education in Indonesia is the Jakarta Creative Media State Polytechnic (Polimedia), which is a vocational college. The Photography Vocational Department at Polimedia is a Diploma 3 program which has the characteristics of being a vocational department that focuses on the creative industry. Students who take part in the Photography department will study various photography techniques and theories, such as portrait photography, landscape photography, product photography, and documentary photography. They will also learn digital image processing techniques through software such as Adobe Photoshop, Lightroom and so on. At the end of the program, students are expected to be able to understand the techniques and aesthetics of photography, and be able to apply them in creating their own photographic works. This program is beneficial for those who wish to pursue a career as a professional photographer or enter the world of photographic art. Before students learn about photography techniques and their theories, in the educational curriculum of the Polimedia Photography Department there is one of the basic art courses, namely the Nirmana Course.

The Nirmana course is one of the courses usually found in the Fine Arts Department or its derivative departments. In this course, students will learn about the techniques and process of making works of art. Nirmana as a branch of fine arts that studies the elements of fine arts, such as points, lines, planes, colors, space and texture which are organized by applying basic principles such as balance, unity, rhythm, harmony, proportion and composition. basic principles in works of fine art and design.[3]In general, Nirmana's courses focus on the practical aspects of making works of art, but also discuss theoretical and philosophical aspects in art. The aim of this course is to provide a basis

for students to understand and practice art well, as well as increase their creativity and imagination.

Nirmana Dwimatra also pays attention to the needs of diverse students, so that this teaching material is prepared and developed with combining theory and practice. This allows students or students to understand and apply lesson material easily and effectively. With Nirmana Dwimatra teaching materials, students can gain knowledge and skills in the field of art and aesthetics, so that they can prepare themselves to enter the world of work or continue their studies in more advanced fields.

The Nirmana Dwimatra course has a close relationship with the photography department. In the photography department, students will study the techniques and process of making images, which is a form of Dwimatra art. Through the Nirmana Dwimatra course, students will understand the techniques and methods for creating quality photographic works, which apply basic art concepts, such as perspective, color, shape, and so on. This will help students to understand and practice photography better. Apart from that, the Nirmana Dwimatra course can also help students in the photography department to develop their creativity and imagination, as well as understand how to combine techniques and concepts in the process of creating photographic works. Therefore,

There are currently no teaching materials in the form of books or digital for the Nirmana Dwimatra course in the Photography Department. Currently, we still rely on RPS as a reference for learning. Therefore, there is a need for effective and interesting teaching materials related to the Nirmana Dwimatra course specifically for the Jakarta Polymedia Photography Department.

Nirmana Teaching Materials for Polymedia Photography students at Polimedia Jakarta requires a new breakthrough, where Nirmana Dwimatra's works produced by students must be related to photography. Therefore, a special study is needed regarding this matter.

Based on the description above regarding the absence of teaching materials for the Nirmana Dwimatra course for the Photography Department, a special study needs to be carried out and a teaching material book should be made. Therefore, the problem formulation in this research is how to make a book of teaching materials for the Nirmana Course for Photography Department students that is related to the science of photography?

2. METHODOLOGY/MATERIALS

Research methods are a series of procedures or techniques used to collect, analyze and obtain the necessary data or information in a study. Research methods have an important role in ensuring the validity and accuracy of the data produced, as well as helping researchers achieve research objectives effectively and efficiently.

The research method used in this research is qualitative, used to understand subjective experiences, perceptions or views. This method collects data that cannot be measured numerically, such as words, images, or actions obtained through observation, interviews, or documents.[4] The following are research methods that can be used to create designs Nirmana Dwimatra teaching material book for Photography department students:

Literature study: Conduct a literature study regarding the concept of Nirmana Dwimatra, photographic works that have Nirmana Dwimatra values, book design theory, as well as effective teaching and learning methods for Photography department students.

Data collection: Conduct interviews with lecturers or lecturers in the Photography department to get input and suggestions regarding the Nirmana Dwimatra concept and photography teaching, as well as conducting a survey to find out the needs and expectations of Photography department students related to this teaching material book.

Data analysis: Analyzing data that has been collected from literature studies, interviews and surveys, as well as evaluating the needs and expectations of Photography department students regarding this teaching material book.

Design: Designing the Nirmana Dwimatra teaching material book for Photography department students, including arranging the structure, content and design of the book in accordance with the needs and expectations of Photography department students, as well as applying effective and attractive design principles.

Validation: Testing this teaching material book on several Photography department students to get feedback regarding the feasibility, effectiveness and usefulness of this teaching material book.

Revision: Revising the teaching material book based on feedback obtained from testing, as well as improving and enriching the content and design of the book to make the book more effective and interesting.

3. RESULTS AND DISCUSSION

The approach and concept for answering problems that can be used to create Nirmana Course teaching material books for Photography Departement students is to combine theory and practice, which can be seen in the following table:

The basic competency of the Two Dimensional Nirmana course is that students in the Photography Departement can organize the basic elements of fine art using certain principles into photographic works. Basic Competencies in the Nirmana Course are one of the main foundations in teaching fine arts and visual arts. This course introduces students to the basic concepts in creating and understanding visual art. In this context, Nirmana refers to the process of creating works of art, while basic competencies include the basic knowledge and skills needed to develop a deep understanding of art and contribute to the creation of meaningful works of art. Through this course, students will understand design principles, visual elements, depiction techniques, and the visual language used in fine arts which will later be applied in photographic works. With a strong foundation in the Basic Competencies of the Nirmana Course, students will be ready to develop their artistic skills and better explore various branches of art. The following are the basic competencies of the Nirmana course:

Able to understand: Education Regulations at Polimedia; Assessment system; Understanding the two-dimensional nirmana course.

Able to apply basic elements of point art and principles of rhythmic art using black and white or monochromatic coloring into 2-dimensional Nirmana works

Able to apply the basic elements of line art and the principles of balance art using polychromatic coloring into 2-dimensional nirmana works

Able to apply the basic elements of fine arts and the principles of Domination/Emphasis fine arts by using a combination of primary, secondary and tertiary colors into 2-dimensional nirmana works

Able to apply the basic elements of fine art, analogous colored textures and apply the principles of unified fine art to photographic works

Able to apply the basic elements of point/line/plane/texture, complementary color, double complementary or split complementary materials as well as apply the principles of repetitive fine art to photographic works

Able to apply the basic elements of point/line/plane/texture, triad colors as well as apply the fine art principles of balance/emphasis/rhythm/unity/repetition into photographic works

TABLE 1: Learning Approaches and Concepts.

APPROACH	SOLUTION TO PROBLEM
<p>Introduction to the Nirmana Concept: Discussion of the definition and scope of Nirmana and its role in photography.</p>	<p>Make a clear definition: As an introduction, we can briefly explain what is meant by the concept of Nirmana and what its role is in photography. This will help students to have a better understanding of the topics discussed. Create relevant case examples: Providing case examples that are relevant and can be applied in the world of photography will help students to better understand the concept of Nirmana. For example, examples of photographic works with the Nirmana concept produced by famous photographers can be given. Group discussions: Students can be given the opportunity to discuss in small groups and discuss the concept of Nirmana, its scope, and its role in photography. Discussions like these will allow them to gain different perspectives and build shared understanding. Individual assignments: Individual assignments can be given such as creating the concept of Nirmana. In this assignment, students can show their understanding of the Nirmana concept which will later be applied in creating works.</p>
<p>Introduction to Color: Pigment Color and Light Color.Explanation of existing colors such as primary, secondary, tertiary and other colors. This color exposure will be related to how these colors will later be used in photographic work.</p>	<p>Simulation practicum: Practicum can be carried out using making images using wet color media, so that students are able to master color mixtures, the properties and characteristics of these colors. This is intended so that students are able to understand the types of colors that will later be applied in photographic works.</p>
<p>Case study: Presentation of a case study of Nirmana's work from a famous photographer and the techniques and concepts used in making it.</p>	<p>Analysis of photographers' work: Students can be given the task of analyzing the work of photographers who are successful in applying the Nirmana concept in their work. In this assignment, students can identify the concept of Nirmana and the photography techniques used in the work. Presentation: A presentation can be made regarding a case study of a photographer who was successful in applying the Nirmana concept in his work, as well as the photographic techniques used in making the work. This will help students gain a better understanding of the application of Nirmana concepts and photography techniques in creating successful photographic works. Class discussion: Class discussions can be held to discuss case studies of photographers who succeeded in applying the Nirmana concept in their work and how photography techniques were applied in creating the work. Discussions like this will help students gain a better understanding and build shared understanding. Direct practice: Students can be given the opportunity to practice photography techniques applied in case studies of photographers who are successful in applying the Nirmana concept in their work. This can be done by giving practical assignments or projects that require the application of these techniques.</p>
<p>Creative Process: Discussion of the creative process in making Nirmana's work, starting from the initial idea, planning, taking pictures, to digital processing.</p>	<p>Presentation: A presentation can be made regarding the creative process in making photographic works that takes into account the Nirmana concept. In this presentation, the stages in the creative process can be explained, such as planning, ideation, shooting, editing, and presentation. Class discussion: Class discussions can be held to discuss the creative process in making photographic works that consider the Nirmana concept. In this discussion, students can exchange ideas and share experiences about the stages in the creative process and how the Nirmana concept influences each stage. Project assignments: Students can be given project assignments that require them to follow the stages in the creative process to create photographic works that take into account the Nirmana concept. In this assignment, they can apply the Nirmana concept and photography techniques that have been learned previously. Direct experience: Students can be given the opportunity to experience the creative process directly by taking pictures and creating photographic works that take into account the Nirmana concept. In this experience, they can practice photography techniques and experience the creative process firsthand.</p>

Able to apply the basic elements of point/line/plane/texture, tetrad color as well as applying the fine art principles of balance/emphasis/rhythm/unity/repetition to photographic works.

With concepts and approaches like this, it is hoped that the Nirmana Course teaching material book can provide a comprehensive understanding of the concepts, techniques and applications of making Nirmana works in the world of photography to students of the Photography Department at Polimedia Jakarta. Apart from that, making teaching material books related to the Nirmana Dwimatra concept in photography can increase Photography Department students' understanding of basic concepts in photography, can help Photography Department students develop their creativity in making photographic works and with the existence of structured and structured teaching material books. easy to understand, Photography Department students can be more effective in learning about the Nirmana concept in photography and applying it in their photographic work.

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