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Representative Etude as a Texture and Touch Sensitivity Enhancement of Piano Playing at Music Study Program

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Abstract: Universitas Negeri Surabaya's Music Study Program has a well-known piano major. The only university in East Java with baby grand piano facilities for lecture activities is Universitas Negeri Surabaya, which has pianos available in every class, including the Music Study Program. This shows that the piano major is a sort of representative lecture space. Comprehensive learning resources are also necessary to support the learning process. This has emerged as a key issue or pressing need in the research. There needs to be a solution to the problem of pupils without a learning tool to use to improve their skills. The research titled "Representative Etude as a Texture and Touch Sensitivity Enhancement of Piano Playing at Music Study Program" was conducted based on the needs analysis. This paper was the result of research and development, and it took the shape of a material book with the etude or repertoire selected to help students improve their ability to play the piano with sophisticated touch sensitivity and varied texture. The research's empirical findings can be used to demonstrate how the learning process for the piano major course has changed. This is demonstrated by the effectiveness test results of the course material book, which show percentage rates up to 90%, indicating that students can comprehend and apply all of the information in the book. This material book illustrates how the "Merdeka Belajar" Concept can help pupils study and practice on their own.

Keywords: piano, material book, texture, touch sensitivity

1. INTRODUCTION

Musical ability, or musical aptitude, is an inexorable topic in the field of music education (Wang, 2022), while music training is one of the primary areas that support lifelong learning because music is one of the chief elements of common culture everyone needs to gain (Barsamyan, 2019). One of them, music conservatories, was established at the beginning of the 20th century, and the adoption of Western pedagogical methods was inaugurated (Anqi et al., 2024). The idea of music education emerged as a result of the use of music as a tool to improve social morality and values (Thuntaweich & Trakarnrung, 2017). Music institutes and departments in universities were established to serve the needs of music studies in higher education (Chansitthichok et al., 2019). Piano major is one of the most representative courses in the Music Study Program at Universitas Negeri Surabaya. Music majors at conventional institutions have the purpose of educating people as the foundation of music education (Jiang, 2019). In the teaching of piano performance, the training of musical expressive force is an active choice for colleges and universities to adapt, grasp, and lead the new normal of music education and promote the sustainable and healthy development of music education (Tao & Xu, 2020). The only university in East Java with baby grand piano facilities for lecture activity is Universitas Negeri Surabaya, which has three baby grand pianos and four upright pianos available in each



lecture room. It shows that a major in piano has a strong marketability and can be advertised as a type of typical lecture setting. The representative lecture process can not only be supported in terms of meeting facilities but must also be supported by comprehensive learning resources, which can achieve the development of cognitive, psychomotor, and affective aspects of students. This has become a critical point of this research. The non-appearance of a learning material that can be utilized by students to create the three domains of learning ideally. Alluding to "Merdeka Belajar" concept that was reported by the Minister of Education and Culture, that the instruction unit, counting the instruction agencies, conjointly students, must have flexibility. Flexibility to innovate, flexibility to memorize autonomously and inventively. Numerous thoughts, issues, and considers concerning creativity have been examined over time, and there's an expanded intrigue in this field since of its application to instruction, advancement, commerce, expressions, and science and society as an entire (Runco in Chew, Chang, & Piaw, C, 2012). So does "Merdeka Belajar" to ponder autonomously, in inventive ways. This concept is raised within the preparation of learning material in piano major courses.

Historically, piano performance qualifications have excluded pedagogical training, particularly for adults (McMillan, 2016), so we need a material book to increase the piano skills of adults. Starting from the initial methods in piano teaching, methodological and periodic training has been adopted in all schools. The sections that students who play the piano will learn are included in the repertoire used in piano students' learning (Gurler, 2022). Proceeding from the *Indria* (basic level) module, this material book displayed the intermediate techniques and knowledge of piano instruments. The study of the piano technique is essential to achieve an optimal musical interpretation (Nicolás et al., 2023). Historically, tone has been considered as a most essential ingredient in the world of music because mastery of tone production enables artistic expression (Thompson, 2017). This material book portrayed aptitudes in regions related to criteria as classical piano players, beginning from the specialized viewpoints, hearing ability, as well as the capacity to appreciate a classical piano within the scope of the intermediate level (*Muda* level). Finally, it is necessary to take into account the level of musical hearing and consider its formation as the main content of education (Gulliyeva, 2023).

In addition, the material book too contains lessons to sharpen the capacity to comprehend concepts and hypothetical classical piano material, counting phrasing in playing classical piano, music history, and other things relating to classical piano music comprehensively (music contours, textures, chord progressions used, etc.). Based on the requirements examination, research entitled "Representative Etude as a Texture and Touch Sensitivity Enhancement of Piano Playing at Music Study Program." With a combination of adequate lecture facilities and a comprehensive lecture material book, it is expected to be a mutually integrated force and synergy with each other, which can be optimized by lecturers to develop the abilities and skills of Piano Major students. This research is about creating an instructing material book for the piano major course. In 2020 already, research has been carried out on the advancement of piano material books for the *Indria* (basic) level. For this year, research will be carried out.

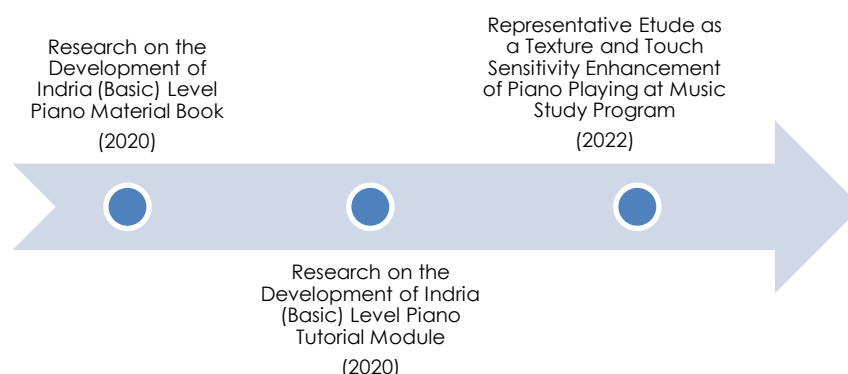


Figure 1. Research Roadmap for Piano Major Material Book

These are some literature reviews that are used as research references:

1.1. Humanistic Learning Theory

Educating strategy is an imperative portion of the entire structure of teaching preparation and is one of the essential components of educating. It is straightforwardly related to the victory or disappointment of educating work, the productivity of educating, and what kind of individuals to cultivate students (Li in Wang, 2018). So, the most important goal of teachers within the humanistic viewpoint is to assist students to create themselves, which is to assist each person to know themselves as one-of-a-kind human creatures and help them realize their potential. The humanistic viewpoint holds that people essentially have the control to form their own choices; humans are seen as interesting, and each involvement contains a diverse meaning for each person, depending on how they allow meaning to the occasion. Concurring to Carl Rogers, the instructive approach ought to attempt to form learning and educating more human, individual, and important.

1.2. Concept of Material Book (Piano Etude)

Are all shapes of material utilized to help instructors in carrying out instructing and learning exercises? Material or learning sources are one of the different components of learning. Learning material is one of the prerequisites to forming learning exercises that run viably and effectively (Suwarni in Sanctus & Milyartini, 2020). The material in question can be either written material or unwritten material. Through educating material, it empowers students to memorize competencies in a coherent and orderly way so that they can ace all competencies in a coordinated and coordinated way (Majid, 2008). Classification of educating materials agreeing to the Faculte de Psychologie et des Sciences de l'Education Universite de Geneve, among others: composed (material book), sound visual, electronic, and intelligently strategies (media mix). Printed educational materials can be shown in different shapes, such as handouts, books, modules, Student Activity Sheets, Brochures, Leaflets, Wallcharts, photos/drawings, or models. Ballstaedt in Majid (2008) proposes a few focal points in planning printed educating materials, counting: (1) Written material, for the most part,

encompasses a table of substance that makes it simpler for instructors to appear students which parts are being considered; (2) The acquirement costs are little moderately; (3) Composed material is rapidly utilized and effectively moved; (4) Composed material offers wide comfort and imagination for people; (5) Generally light and can be studied anyplace; (6) Great instructing materials will be able to propel readers to carry out exercises such as checking, taking notes, and so on; (7) Can be delighted in as a report of incredible esteem; and (8) The readers can alter the rhythm autonomously.

1.3. Piano

One of the instruments included within the scope of instrument training in vocational music education, which is a dimension of music education, is the piano (Boz, 2022). As is well-known, the moving tone, wealth, and shifted playing abilities of the piano allow individuals to enjoy piano execution, which clarifies why the piano is additionally known as the ruler of musical instruments (Wu, 2020). Piano may be a melodic instrument that incorporates clavicle, counting idiocordo, which may be a melodic instrument with the working rule of strings, or in other words, strings that are sounded by being hit. The first title for the piano is piano forte. At first, Bartholomeus Christofori 1707 spearheaded the improvement of the harpsichord, which at first worked with the working rule of string picking, was changed into the guideline of string striking and was called the clavicembolo piano e forte. The title of the clavicembolo was created in such a way, both in terms of apparatuses and instruments of work, until at least found the piano forte or better known as the piano (Banoe, 2003).

2. METHODS

2.1. Development Type

This sort of research is development research. Development research may be an investigative strategy that intentioned, methodically, points to discover, define, move forward, create, and test the viability of items, models, methods/strategies/ways, administrations, certain methods that are prevalent, modern, successful, proficient, profitable, and meaningful (Putra, 2012). The development in question is within the frame of creating the *Muda Piano Major Course Material Book* (with representative pieces) for the Music Study Program, Faculty of Language and Arts, Universitas Negeri Surabaya. This *Muda Piano Major Course Material Book* contains an introduction to aptitudes in zones related to criteria as classical piano players, extending from the specialized viewpoint, hearing acuity, as well as the capacity to appreciate a classical piano within the scope of the intermediate level (*Muda level*).

In addition, the material book also contained fabric to sharpen the hypothetical capacity to get classical piano music concepts and materials, counting phrasing in playing classical piano, music history, and other things relating to classical piano comprehensively (form music, texture, chord movements, etc.). *Muda Piano Major Course Material Book* is a compilation of various material notes, technical exercises etude, melodic training etude, and song composition (repertoire) to be studied and trained at the intermediate level (*Muda level*). Since the characteristic of music isolating it from other tries is its expressive esteem (Loong, 2013), at that point, the choice of material included in this material book is

based on the thought that the material etude or collection is in arranged to assist students in improving their ability in variation texture and complex touch affectability in piano playing. The taking after could be a list of lecture material within the *Muda Piano Major Course Material Book*:

Table 1. Learning Material for *Muda Piano Major Course Material Book*

LEVEL	MATERIALS
MUDA (INTERMEDIATE)	<ul style="list-style-type: none"> • Scales: A). Major: C, G, D, A, E, B, F, C#, Eb, F#, Ab, and Bb; B). Minor (Harmonic And Melodic): C, G, D, A, E, B, and F. Formations: Similar Motion (<i>Legato</i> and <i>Staccato</i>), Contrary Motion, <i>Triad</i> Broken Chords, <i>Arpeggios</i>, Broken Chords (All in 2 Octaves). • Technique <i>Etude</i>: Hanon: For the Virtuoso Pianist (Hanon, 1928), Czerny Op. 599 (Czerny, 1893), and Czerny Op. 849 (Czerny, opus 849). • Melodious <i>Etude</i>: Burgmuller Op. 100 (Burgmüller, 1931). • <i>Repertoar</i>: <i>Sonatina</i> Compilation Book (<i>Sonatina</i> and <i>Sonata</i> Book. New York/London: G. Schirmer), <i>Piano Pieces for Children</i> Volume III (Grade 1) (Publisher Team. Everybody's Favorite Piano Pieces for Children <i>Volume. 3</i>).

2.2. Development Models

The demonstration utilized within the development research of the *Muda Piano Major Course Material Book* is the ADDIE Model. Prawiradilaga (Prawiradilaga, 2007) states that the ADDIE Demonstrate may be a learning design that's based on a framework approach. The components contained within the ADDIE Show incorporate: (1) Analyze: incorporates examination of material needs and the requirements of students; (2) Design: the scope of planning the detailing of competencies methodologies; (3) Development: incorporates the improvement of educating materials, as well as media improvement; (4) Implement: incorporate face-to-face evaluation; and (5) Evaluation: in terms of assessing learning and advancement programs.

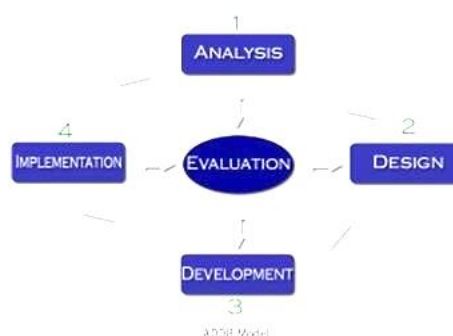


Figure 2. ADDIE Model Reiser Version

Reiser in Prawiradilaga (2007) defines the ADDIE show by utilizing verbs (design, develop, implement, evaluate). Unequivocally, Reiser moreover laid out the requirement for amendment or enhancement that happened between each phase. By applying the ADDIE Model, the development research about prepare will be carried out coherently beginning from the examination stage, planning, creating, and so on, so that a material book improvement item that's detailed/precise, focused on, and viable, particularly for understudies taking the Piano Major course.

2.3. Trial of Product Development

The item development test is carried out on a small scale, to be specific to students of the Music Study Program who take *Muda Piano* Major courses (little class, a maximum of 7 students). Implementation is carried out to decide whether the course material book can be utilized viably and right on target. The desire is that the lecture material conveyed can be ingested rapidly and ideally by students so that this course material book item can be measured successfully.

2.4. Development Instruments

2.4.1. Validation

Onwuegbuzie and Johnson (in Creswell, 2021) state that the approval to prepare for development research about is alluded to as authenticity. The method of authenticity of information legitimacy is carried out by a few parties who have competence within the field of instruction, additionally the domain of music. The validator group is as follows:

2.4.1.1. *Validity test of the content and presentation feasibility components.*

For the substance and introduction feasibility component, the validator whose part is Endang Retnowati Tjiptoheningsih. Endang Retnowati is the proprietor and educator at Primafermeza Music School. In charge of piano and vocal abilities, Endang Retnowati is additionally enrolled as a senior teacher at the Association Board of Royal Schools of Music (ABRSM), founded at the Yayasan Musik Indonesia (YASMI) on Sambas Road, Surabaya, East Java.

2.4.1.2. *Validity test of the feasibility component of graphics*

Referring to the reason the item delivered in this consideration is within the shape of a course material book, at that point, the graphic component, which covers viewpoints of coherence, print conditions, and so on, is approved by Meirina Lani Anggapuspa, S.Sn., M.Sn. Mrs. Anggapuspa is one of the teachers of the Graphic Design Study Program, Department of Design, Faculty of Language and Art, Universitas Negeri Surabaya, who is additionally dynamic as a product architect dynamic as a national jury within the planning ability presently.

2.4.2. Validation Indicator

There were a few components that to be the most focused within the handle of legitimacy test in this research, including:

2.4.2.1. *Eligibility Content Component.*

- The material utilized within the *Muda Piano* Major Course Material Book incorporates the intermediate information of piano, the theory of musical notation, practice material for fingering, and repertoire song materials that provide texture and sensitivity in piano playing.
- The material can be connected autonomously by students.
- Reference material utilized can be connected to date.

2.4.2.2. *Presentation Eligibility Component*

- The title that is displayed in the *Muda Piano* Major Course Book Material is by the overall song material concept.
- The material is displayed in a coherent, continuous way and can coordinate students' understanding into the

learning preparation of music documentation material on a piano instrument in stages.

- *Muda Piano Major Course Material Book* is displayed in full, starting from the presentation, table of substance, the precise measure of the content, and concurring to the standard.

2.4.2.3. Eligibility in Graphics Component

- Regarding book covers
- The coherence angle (the measure of the letters utilized can be read easily).
- Print quality of letters and music notation (concerning the clarity of the appearance of letters and music notation).
- Physical material book qualities (concerning paper materials utilized, printing hardware utilized, authoritative framework material book courses).

2.5. Product Effectiveness Test Development

The item viability test of the *Muda Piano Major Course Material Book* was conducted in two assembly stages. Student Activity Observation Sheet is utilized in getting data on almost all the stages of learning and practicing carried out by students amid the address preparation of the *Muda Level* of the Piano Major. That sheet is filled in by Music specialists who are entrusted with watching and giving evaluations during the course of the lecture utilizing the material book. The focuses watched within the learning preparation incorporate (1) The execution of each organized learning exercise, (2) the Freedom of students to utilize the *Muda Piano Major Course Material Book*, (3) The capacity of students to recognize and review the essential concepts of music notation on the piano amid the learning and practice process, (4) The capacity of students to get it and apply the concepts of music notation on the piano into a straightforward simple song when learning exercises take put.

2.6. Data Analysis

The method of data analysis within the development of the *Muda Piano Major Course Material Book* is classified into 3 (three) primary exercises, counting: (1) The Development Process of the material book, (2) Quality of *Muda Piano Major Course Material Book*, (3) Effectiveness of *Muda Piano Major Course Material Book*.

3. RESULTS AND DISCUSSION

Within the process, the comes about analysis of the legitimacy of the development items was orchestrated in the form of a scale survey. The sort of scale utilized may be a Likert Scale. Riduwan (Riduwan, 2022) recommends that the Likert scale could be a scale utilized to degree the demeanors, suppositions, and recognitions of an individual or gather of individuals around social occasions or side effects. Within the inquiry about handle, this social wonder has been indicated in detail and particularly by the analyst, hereinafter alluded to as the inquiry about the variable. Each reply or statement portraying perspectives of the legitimacy test of item improvement, in agreement with the National Education Standards Agency, is connected to the shape of articulation or demeanor bolster communicated within the taking afterward: (1) Scale 1 = Very Poor/Very Disagree; (2) Scale 2 = Poor/Disagree; (3) Scale 3 = Fair/Moderate; (4) Scale 4 = Good/Agree; and (5) Scale 5 = Very Good/Very Agree. This questionnaire was handed over to the validator team during the process of testing the validity quality of

the *Muda Piano Major Course Material Book*. Examples of the application of a Likert scale (with checklist form) in the quality validity test questionnaire *Muda Piano Major Course Material Book - Feasibility Content Component*:

Table 2. Score Results Analysis of Feasibility Components Validity Test

NO.	STATEMENT	ALTERNATIVE ANSWER				
		5	4	3	2	1
		VG	G	F	P	VP
1.	The material utilized within the <i>Muda Piano Major Course Material Book</i> incorporates the intermediate information of piano, the hypothesis of melodic notation, hone material for fingering, and <i>repertoire</i> song materials which give surface and affectability in piano playing.	√				
2.	The material can be connected freely by students.		√			
3.	Reference material utilized can be connected to date.		√			

The equation for calculating the score utilized within the Likert Scale is by calculating the rate of each thing based on the approval that comes about from the validator group that has been decided. Diagram of calculating the score:

Answering 5: 1 thing; Replying 4: 2 things; Replying 3: 0; Replying 2: 0; and Replying 1: 0.

Calculate scores by:

The number of scores for one thing replied 5: $1 \times 5 = 5$.

The number of scores for 2 things replied 4: $2 \times 4 = 8$.

The number of scores for things replied 3: $3 \times 3 = 0$.

The number of scores for things replied 2: $2 \times 2 = 0$.

The number of scores for things replied 1: $1 \times 1 = 0$.

Total Score Accomplished $(5 + 8 + 0 + 0 + 0) = 13$.

Clarification of Rate Translation of Scores for Likert Scale [19]:

Figures 0% - 20% = Exceptionally Less.

Figures 21% - 40% = Less.

Figures 41% - 60% = Enough.

Figures 61% - 80% = Good.

Figures 81% - 100% = Exceptionally Good.

Based on this information, the quality legitimacy test of the *Muda Piano Major Course Material Book - Content Feasibility Component* features a rate $13/15 \times 100\% = 86.67\%$, classified as exceptionally good.

So, the Likert Scale formula used is (Ibrahim & Sudjana, 2001):

$$\begin{aligned} \text{Percentage Result} &= \frac{\text{Test Score} \times 100\%}{\text{Highest Score Achieved}} \\ &= \frac{13}{15} \times 100\% \\ &= 86.67\% \text{ (Exceptionally Good).} \end{aligned}$$

This research was one shape of development research that actualized information around the music, particularly the piano hone ability. Yield that produced after this research about is *Muda Piano Major Course Material Book*:

Table 3. Score of Assessment Test for The Effectiveness Test of *Muda Piano Major Course*, Phase

NO	ASSESSED ASPECTS	ALTERNATIVE ANSWERS				
		5	4	3	2	1
		VG	G	E	L	VL

1.	The execution of each organize of learning exercises.	√	
2.	Autonomy of students in utilizing the <i>Muda Piano Major Course Material Book</i> .		√
3.	Students' capacity to recognize and review the fundamental concepts of music notation on the piano when the learning and practicing handle takes put.		√
4.	The capacity of students to get it and apply the essential concepts of music notation on the piano into a simple song when learning exercises take put.	√	

To begin with Trial Score Restatement (Most elevated Score Sum: 5 x 4 things = 20):

Nothing gets a Score of 5: 5 x 0 = 0.

There are 2 things that have a score of 4: 4 x 2 = 8.

There are two things that get a score of 3: 3 x 2 = 6.

Nothing gets Score of 2: 2 x 0 = 0.

Nothing gets Score of 1: 1 x 0 = 0.

Total Score Accomplished (0 + 8 + 6 + 0 + 0) = 14.

Percentage Result = $\frac{\text{Test Score}}{\text{Highest Score Achieved}} \times 100\%$

= 14/20 x 100%

= 70% (Valid, Quality, Can be used with minor improvements).

Table 4. Score of Assessment Test for The Effectiveness Test of *Muda Piano Major Course*, Phase II

NO	ASSESSED ASPECTS	ALTERNATIVE ANSWERS				
		5 VG	4 G	3 E	2 L	1 VL
1.	The execution of each organize of learning exercises.		√			
2.	Autonomy of students in utilizing the <i>Muda Piano Major Course Material Book</i> .	√				
3.	Students' capacity to recognize and review the fundamental concepts of music notation on the piano when the learning and practicing handle takes put.	√				
4.	The capacity of students to get it and apply the essential concepts of music notation on the piano into a simple song when learning exercises take put.		√			

Rundown of Moment Trial Score (Most noteworthy Score Sum: 5 x 4 things = 20):

There are 2 things that get Score of 5: 5 x 2 = 10.

There are 2 things that have score of 4: 4 x 2 = 8.

Nothing gets score of 3: 3 x 0 = 0.

Nothing gets Score of 2: 2 x 0 = 0.

Nothing gets Score of 1: 1 x 0 = 0.

Total Score Accomplished (10 + 8 + 0 + 0 + 0) = 18.

Percentage Result = $\frac{\text{Test Score}}{\text{Highest Score Achieved}} \times 100\%$

= 18/20 x 100%

= 90% (Very Good, Very Valid).

Regarding the percentage classification in the trial process of *Muda Piano Major Course Material Book*, it can be described in the following table:

Table 5. Percentage Classification in The Trial Process of Muda Piano Major Course Material Book

NO	CRITERIA FOR ACHIEVING	VALIDITY LEVEL
1.	76 % - 100 %	Very valid, very high quality, can be used without improvement.
2.	51 % - 75 %	Valid, quality, can be used with minor improvements.
3.	26 % - 50 %	Invalid, not qualified, cannot be used.
4.	1 % - 25 %	Very invalid, very not qualified, cannot be used.

4. CONCLUSION

The development of Muda Piano Major Course Material Book, observationally, is able to appear noteworthy comes about within the learning handle of the piano major course. This can be seen within the comes about of the viability test of the course material book, which appear percentage rates up to 90%, where students are able to assimilate and execute each material within the material book. Alluding once more to the application of the “Merdeka Belajar” Concept, Muda Piano Major Course Material Book appears that it can encourage students to memorize and hone freely.

AUTHOR CONTRIBUTION

Raden Roro Maha Kalyana Mitta Anggoro as first author: Conceptualising and coordinating overall research activities; Heri Murbiyantoro: Collecting data in the field; Tri Edliani Lestari: Collecting data in the field; Arisni Kholifatu Amalia Shofiani: Processing data for later concoction into scientific writing; Luth Indyana: Processing data for later concoction into scientific writing

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