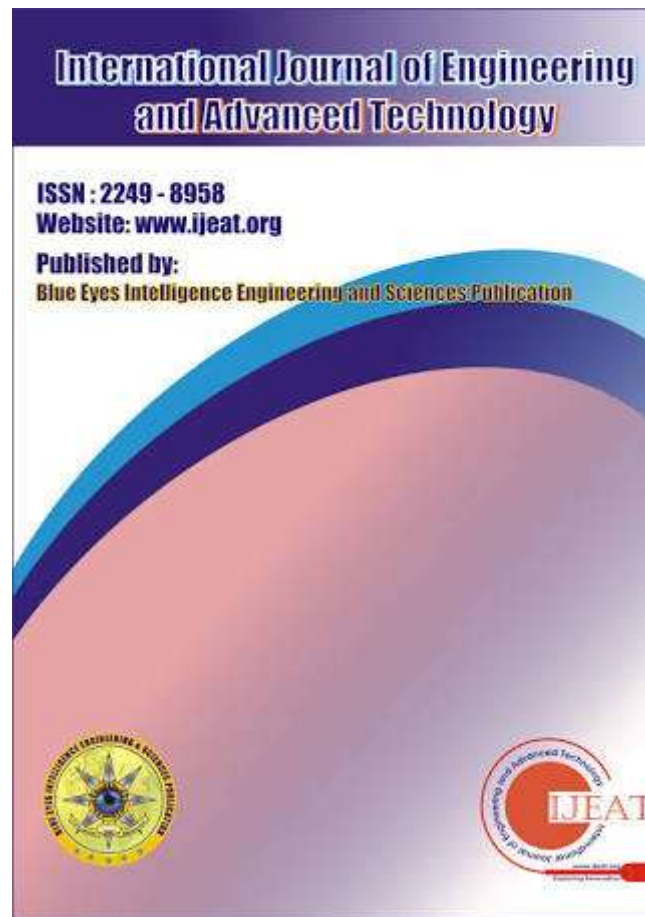


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this study aims to facilitate the needs of learning chairs specifically designed for hyperactive students. This design study will also be based on the body dimensions and analysis of sitting habit of hyperactive students in inclusive elementary schools in Indonesia.

II. LITERATURE REVIEW

A. Learning Facilities

Learning facilities should be able to support the education programme effectively and facilitate the development of learning environment which enhance the learning experience of both students as well as the teachers. In reality, pupils sit with various habits and position in schools. Learning chairs can be used by children in an upright, tilted, twisted, closed, or open position. Not only that, students also sit while stretching their legs, cross their legs, or move their legs while learning in class. This phenomenon had also been found by a research conducted by Human Environmental Research Organization (HERO, inc) The research, that has been carried out for around 3 decades, found that the performance of workers is influenced by the body ergonomics, working behaviour as well as the working environment. Referring to the study, in terms of learning process in schools, spacious classrooms and good learning facilities will impact the success of learning process [1] [2].

Learning facilities such as tables and chairs have to be scaled well so that they can fit the size of every pupil. It is important since the physical facility of a school influence the learning process, learning environment, and eventually the academic result of the students, [4]. The lack of infrastructure and learning facilities will lead to bad performance in a school's environment. [5]. Students tend to like sitting arrangement that is flexible. Learning chair that is comfortable, functional, and dynamic become pedagogical artifacts in the participatory design process, which refers to how educators and students create functional and meaningful learning spaces. [6] Classrooms designed with comfortable and safe seating facilities can support student learning. The design should include appropriate dimensions of the learning chair that is applicable to the learning chair. This is because the right dimension will support the comfort of sitting, safety, and health for students participating in the learning process.

Chair and furniture are necessary facilities in a classroom environment that facilitate pedagogical methods and strategies to increase learning involvement and attention. According to [7], learning is influenced by various physical characteristics of the classroom, including the design of the chair. Pupil's body that is ergonomic will correct body shapes and size for normal students by [8] emphasized the importance of ergonomics. Seat that is not proper will impact the normal musculoskeletal development, will result in poor posture, back pain, neck pain, and other health problems. Normal students can experience reduced brain activity when the body sits wrong and is uncomfortable because students are constantly moving in class. Thus, students with special needs or hyperactivity can increase the risk of back and neck pain, increasingly restless or demotivated to go to school [9].

The learning chair facilities for hyperactive students are sought to nurture students in teamwork and collaboration in the classroom. Furniture in class should be adjusted to accommodate the various learning activities [10]. For active

student learning, it is important to consider class seating arrangements so that students can contribute to collaborative learning and performance. Learning chair facilities both for normal and hyperactive students require a degree of flexibility and mobility to support the goals of active learning and teaching methods [11].

B. Inclusive School

Inclusive education is a form of education that brings together children with special needs with normal children. In Indonesia, this kind of school was embedded in the broader inclusive education policies including curriculum, recruitment of special teacher (GPK), and inclusive school facilities [12]. The level of involvement of these classmates (normal students), how much they learn and interact with this hyperactive children, that intertwine with how they know and analyze the anxiety of young and professional parents, [13] having holidays together with hyperactive children will contribute significantly in developing connection between children, and how they can accept their hyperactive counterparts, [14]. In developing interventions to provide facilities to improve quality of life among students with special needs, hyperactivity in this context, Author links open overlay panel [15].

C. Hyperactive Students

Hyperactive children are children that can't concentrate and tend to forget what they have heard and said for less than 10 seconds. Usually, it is hard for them to sit still and they will act as they please stubbornly. Students with Attention Deficit Hyperactivity Disorder (ADHD), a form of hyperactivity in children, experience academic and prolonged disorders, and are underachievers since they find it to be difficult to complete school assignments, [16]. Measurement invariance (MI) for the latest nature of ADHD in various sociodemographic groups in schools related to IQ, and psychiatric diagnosis by [17].

D. Ergonomics

Learning environment requires flexible furniture that can balance learning activities for both normal students and students with special needs/hyperactivity. Research development for improvement and results implementation processes in the wider literature into student learning facilities in the classroom [18]. Children are known to spend more than 30% of their time in school. Most of the class activities include sitting for long periods of time, with little or no rest. Organizational management/OBM applies the principles and methods of student behavior to improve learning performance and individual safety. [19]. An uncomfortable chair can hamper learning process, reduce attention span and concentration, and will result in fatigue, saturation or even pain.

Every attempt has to be made to ensure that children do not have back pain and other musculoskeletal disorders because they sit elongatedly in classroom furniture that is improperly designed, [20]. Ergonomic performance, which is often considered rough during the design phase, can represent a fundamental step in preventing ergonomic problems if it is taken into account since the design phase of the production process initiated, [21]. Student anthropometric measurements are used for furniture

dimensions. Investigations of related anthropometric measures such as height, weight, Body Mass Index (BMI), popliteal height, buttocks popliteal length and hip breadth showed that height and body mass index were important factors in sketching the furniture in classroom chairs. The procedure adopted for assessment involves the current school furniture survey, analysis of activities, habits, and estimates of comfort for both normal and hyperactive students.

E. Cyber Technology

Cyber technology and Additive Manufacturing (AM) are ready to bring a revolution in the way products are designed, produced, and distributed to end users, [21]. The making of computer technology-based or cyber technology with cloud (CBDM) design refers to a service-oriented network product development model where consumers can configure, select and use customized product realization services and resources ranging from computer assisted software to manufacturing system that can be reconfigured, [22].

Research investigates the influence of cyber technology in the future. The effectiveness of design is greatly moderated by the frequency of computer technology utilization [23]. Some advantages that gained through the use of cyber technology in design process include: (a) Data storage: Data that we gathered and used during the design process can be easily stored as well as transferred to other program. (b) Data-In-Transit, all of the data in the design process in the form of text as well as pictures during the design process can be transferred quickly through a server line. (c) Communication during the design process can be conducted easily and fastly. Communication can be done everywhere at anytime through Email, Whatsapp, SMS, Slack, etc. (d) The need to be skilled in the design process. Utilizing high-resolution digital optical technology, will provide effective visual tool for drawing architectural design. [24]. The skill (to work quickly and precisely) is needed during all phases of design process including data collection process, design analysis and design concepts. (e) Cyber technology are effective in maximizing the design experience. Technology that uses digital station twin can minimize the time needed to develop and design interior assembly lines, correct design errors during the design phase, that normally can only be done during the production phase, [21]. File-based digital technology can create impressive visual design images, that is crystal clear, [20]. Digitalization promotes designers to obtain adequate skills and use the Internet more effectively, [25].

III. METHODOLOGY

Participants selected are inclusive elementary school students randomly picked both normal and hyperactive. In collecting data from the participants, the questionnaire used was prepared to identify student requirements. The design method with QFD is used to prioritize design needs. After data has successfully gathered from the participants, various types of anthropometric measurements are discussed to understand the collected data. After that, the steps in the design process for hyperactive student learning chairs are discussed. The procedure for calculating incompatibility between furniture and body dimensions is also displayed in this part of the study. Finally, the design of the learning chair for hyperactive students is explained. This analysis is carried

out by using the QFD method to assist the designer in compiling knowledge, taking into account product functions' characteristics, activities or criteria for the use of the product, and points that are aimed to be developed when drawing up the design. The use of cyber technology with 2D programs, applied at the time of data collection, design analysis, technical drawings and data storage.

A. Participants

Sample of this research consists of three (3) inclusive elementary schools in several areas that represent the amount of inclusive elementary school's population in Indonesia. Hyperactive students in the inclusive elementary schools were also picked for anthropometric measurement. Not only that, the dimension of furnitures in the selected inclusive schools are also gathered to determine the incompatibility of currently used furnitures with anthropometric measurements.

B. Procedures

The design process include the distribution of quality QFD functions model. After obtaining all of the needed research permit in inclusive schools, the study was ready to be conducted and focused on the aspect of design requirements. Analysis of learning activities when sitting on hyperactive students was done to obtain the needs of the learning chair facilities. After that, the anthropometric measurements of students with hyperactive disabilities were carried out. The dimension of currently used furniture were also taken to calculate mismatches. The Deployment Quality Function was used as a total quality management tool that represents all structural analysis. The Quality Function Deployment/QFD translates the needs of learning chairs for hyperactive students that has not been fulfilled in inclusive elementary school. The design process considers how to learn to use the chair product by integrating behavior analysis (product behavior and users) with functional analysis.

C. Design Methodology Refers to Quality Function

Deployment /QFD

Quality Function Deployment / QFD is a total quality management tool that was introduced in Japan in the year of 1972, [26]. This tool is also used in educational institutions and service providers to enhance learning services. The method of distributing quality functions was found based on school requests from customer voice (VOC). Function requirements and qualifications that are designed refer to school requests. The Quality Function Deployment / QFD method is basically based on surveys in public schools and inclusive schools. The specific level of development of the Questionnaire is the first stage of the process of implementing the Quality / QFD Function. There are several ways to take surveys in inclusive schools for hyperactive students, and one of them is through questionnaire. The voice of the customer/VOC that is translated is a necessity. The structured process of distributing quality functions is listed below, [26].

Step 1: Questionnaire Development

In order to gather data as the basis of the questionnaire, the researchers arranged meetings with teachers and parents of hyperactive children and observe how the children sit and learn in classrooms, with the mindset of ergonomics. Developing the design of study chair designs for students with special needs, we conducted an analysis of the behavior of



hyperactive students from the beginning to the end of school. There are around seventeen (17) hyperactive student learning characters that underlie the study chair design analysis. The involvement of cyber technology at this stage is in compiling and searching data to be safer and faster.

Step 2: Identifying Customer Requirements

After questionnaire development, the researchers go on the next step which is identifying customer's requirements from the survey conducted. In this step, the users' voices are translated so that they can be interpreted. The user request requirement underlies the development, and several requirements, which then will be applied. The involvement of cyber technology at this stage is in processing the initial data such as the need for tables, drawing sketches and so on.

Step 3: Determining The Relative Importance of What's

In this step, the relative importance of What is determined. In order to do so, the characteristic table of Satty's learning activities are used to capture the importance of analyzing the development of study chair designs specific for hyperactive students.

Step 4: Establishing Design Requirements

In order to determine the design requirements, data on hyperactive student activity and their character of learning were analyzed. Ergonomic and anthropometric measurement studies of hyperactive students were used to create the best design requirements for articulated inclusion school requests. In this step, the main target is to meet the demands of inclusive schools and to get user's convenience.

Step 5: Prioritizing of Design Requirements

The last step of the process is prioritizing the design requirements. This step decide the design requirements that have to be used in the study chair product. In this step, the design requirements are prioritized by observing hyperactive student's activity in class, the approach of anthropometric ergonomics and the learning process of inclusive elementary school.

D. Anthropometric Measurements

The anthropometric dimensions of hyperactive student are used as a keyword during ergonomic furniture design. Anthropometric trace are collected by observing sitting and standing position of hyperactive students while using the study table. Methods of measurement, observation, and measurement were carried out to ensure that hyperactive students will sit upright and students' legs are perpendicular to the bottom while using the chair. Beside that, anthropometric measurement was also used to measure the seating height of hyperactive students. In this context, the researchers calculated the vertical distance from the horizontal sitting surface to the head. This measurement is used to determine the vertical clearances needed for a sitting position. Not only the seating height, eye height is also measured with this method in this study. The measurement was done by Calculating the vertical distance from the surface that sits horizontally to the eye. The object that students see should appear below the horizontal plane determined by the height of their eye. Lastly, anthropometric measurement was used to measure the height of the children's shoulder. The process was carried out by Calculating the vertical distance from the horizontal seated surface to the acromion (Figure 1 and 2). Image Source: [27]

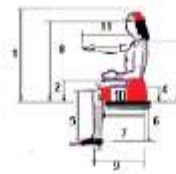


Fig 1: Measured Anthropometric Data.

Legend: (1) Height size sit up to the head, (2) High elbows sit from the buttocks, (3) Sitting size to shoulder height, (4) Thigh permit, (5) Height of the knee from the foot, (6) Popliteal height from the foot, (7) Buttock-popliteal length, (8) Height of the eye from the stand, (9) Butti-knee length, (10) Long arm – hands (11) Long stretch of hand.

- The size of hip's width: is to determine the maximum horizontal distance between the hips of a student in a sitting position on a chair.
- Elbow height to elbow: is the horizontal distance across the surface of the elbow to the side calculated. This size is to find the width of the seat back and the distance between the armrests.
- Thigh distance: is the vertical distance from the student sitting horizontally to the maximum point on the thigh.
- The knee height: is the vertical distance from the floor to the upper thigh surface (90° knee flexion is required).
- Butt knee length: the horizontal distance from the front of the knee to the back of the stand.
- The length of the popliteal buttocks: horizontal distance from the posterior surface of the buttocks to the popliteal surface. This length is calculated up to a 90° angle size.
- Popliteal height is the vertical distance from the surface of the footing to the popliteal site. The popliteal height must be shorter than the height of the chair [26].



Fig 2: Measured Anthropometric Data, for seat height
 a) Sizemark S: small, seat height 380- 400 mm/table 550-600,
 b) Sizemark M: Medium, seat height 430-450 mm/table 600-750 mm, c) Sizemark L: large, seat height 460 – 480 mm /table 700-800

Learning chair furniture and body dimensions: Ergonomic and anthropometric rules should be used to design and determine the range of furniture dimensions in the study chair. The anthropometric measurements of hyperactive students, which are related to the dimensions of furniture, can be used to identify both compatibility and incompatibility of the study chair. The following equation is usually used.



Popliteal Height (PH) Seat Height (SH): The height of the chair must be balanced with the respect to the height of the popliteal (PH). Knee flexibility is needed so that the lower leg frames do not exceed the extreme point of 30° against the vertical, [28]. Seat height (SH) must be lower than Popliteal Height (PH) so that the lower limbs form 5° - 30° with the vertical and thigh edge of the thigh bone around 95° and 120°. Seat height (SH) does not have a size higher than 4 cm or 88% of Popliteal Height (PH) to maintain a strategic distance from pressure in the cheek area [29] [30].

IV. RESULTS AND FINDINGS

The results of the analysis of the learning characteristics of hyperactive / ADHD students and their handling with exclusive school facilities can provide insights in developing the answer towards how to facilitate learning for inclusive schools, (Table 1)

Hyperactive Student Learning Characteristics
Table 1. Hyperactive student learning characteristics and furniture needs

Hyperactive Student Learning Characteristics	Hyperactive treatment	Options for the Furniture	Hyperactive students	Schools
Hyperactive students are Never shut up	Choose learning activities according to their interests so that their desires are channeled in a positive direction		Hyperactive students Can't Calm down	Schools Provide special space when hyperactive children are saturated, in the classroom
Active in motion	Choose positive and useful learning activities		Hyperactive students Don't like to be friends much	Schools Provide Design a chair with an armrest, while learning to limit motion
Hyperactive students are difficult to tell	Give an example to children how to behave properly and correctly.		Hyperactive students are impatient	Schools Provide Seat design with armrest, foam seat and foamy backrest, while learning to be more comfortable
Destructive/Destructive	Makes him look around who is very appreciative		Hyperactive students like to fight	Schools Provide The design of the chair with armrest, foam seat and foamy backrest, is equipped with seat belt when learning to reduce activity
			Impulsive	Allowing the child to feel things that are dangerous but in a mild stage. 
			Tireless	Select activities according to their interests so that their wishes are channeled in a positive direction. 
			Low intellectual ability	Direct the completion of learning tasks with their abilities. 
			Hyperactive students	Provide activities that require gradual calm so that children begin to adapt to these activities 
			Hyperactive students	Help him mingle with his age friends and have the same interests 
			Hyperactive students	Give activities that he is interested in but requires high patience 
			Hyperactive students	Hyperactive students are given an example of cause and effect if the child fights back this stress to apply the practice of direct practice so that it is easily absorbed by children. 



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Hyperactive students are out of focus	Hyperactive students are given activities that require the child to focus on one thing.		School Provide a chair design with armrests, foam seat and foamy backrest, equipped with seat belt when learning to be more focused.	Height armrest on the chair 7" - 9" (17.78 cm - 22.86 cm) Long armrest 8" minimum (20.32 cm) Size of the armrest width 2" average (5.08 cm) The back seat of armrest from the front 2" - 3" (5.08 cm - 7.62 cm) Seat back height 12" - 18" (30.48 cm - 45.72 cm) Back seat recline angle 0° - 5° High size foot climbing 6" - 8" (15.24 cm - 20.32 Cm)
Hyperactive students like things too attractive	Hyperactive students are given games that are not too dangerous		Schools Provide a special space when hyperactive children are interested, in class with puzzle carpets.	
Hyperactive Students Care for Yourself	Hyperactive students are taught learning by doing and casual techniques.		The school made a chair design with a sensory stand.	
Hyperactive Students are late physical development	Hyperactive students are given therapy, and school and find talent that he can or does he possess.		The school made a chair design with a sensory stand.	
Hyperactive students cannot control movement	Hyperactive students are given a time limit to play and apply a schedule system.		School make The design of the chair with the armrest, foam seat and foamy backrest, is equipped with seat belt when learning to be more focused.	
Hyperactive students are easily upset	Hyperactive Students are given games, or activities that require high patience.		Schools Provide a special space when hyperactive children are interested, in class with puzzle carpets.	

Table 2. Dimension of chair design for Hyperactive students

Position	Unit Dimension
Wide seat seat size	16" - 20" (40.64 cm - 51 cm)
Length of seat belt	25" - 30" (63.5 cm - 75 cm)
Seat size depth	15" - 20" (38.1 cm - 51 cm)
Chair height from floor,	16" - 20" (40.64 cm - 51 cm)
Slope angle of seat front to rear seats	5° to 8° (12.7 cm to 8°)

A. Chair Design For Hyperactive Students

The design of the study chair for the proposed hyperactive students has the correct dimensions to be a comfortable and safe learning facility. To achieve such design, the researchers went on the process of Data collection design, analysis of design development and work drawing techniques of cyber-based 2D computer program technology. Through such processes, it was obtained a design of chairs for hyperactive students that has armrests and lumbar supports that can be set up and down, strong but flexible footrests for freer legs movement, sensory seat that is soft and comfortable for students with high body dimensions and safety belt that can be used to restrict the movements of hyperactive kids if they need to concentrate on learning. The design of the learning chair for hyperactive students after going through the analysis process is shown in the figure below. (Figure 3, 4, 5, 6).

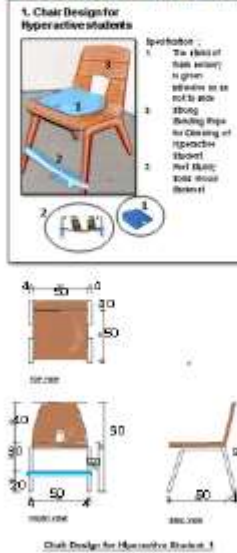


Fig 3 : Chair design for hyperactive students (1)

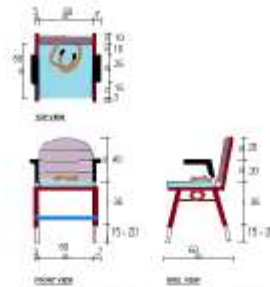


Fig 5 : Chair design for hyperactive students (3)

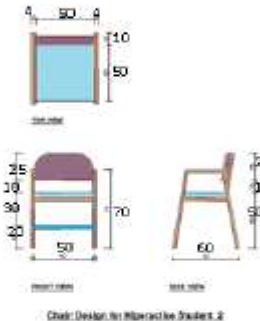


Fig 4 : Chair designs for hyperactive students (2)

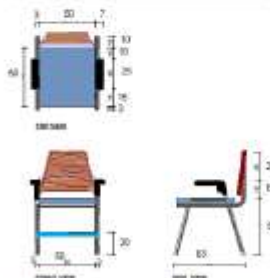
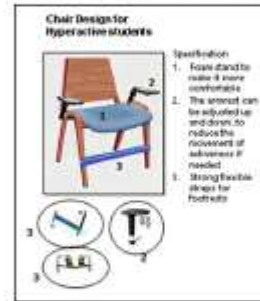
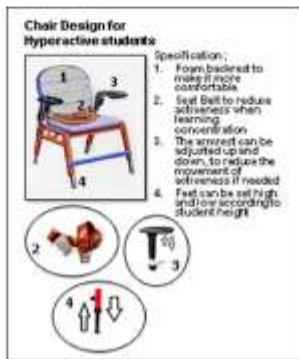


Fig 6 : Chair design for hyperactive students (4)



Implications for Developing Study Chair Designs for Hyperactive Students

Learning chairs for hyperactive students are important in inclusive schools, since it provides support for learning processes. For safety design, it is



important to understand optimal parameters of student hyperactivity and over-activities such as elbow-ground distance, popliteal height, and range angle, [31]. The main objective is to contribute to the success of inclusive schools. For this purpose, it must consist of:

- 1- Seats that are suitable for inclusive school learning activities;
- 2- Seats that support hyperactive student learning styles;
- 3- Chairs that meet students' physical needs to help them stay healthy, comfortable, and be engaged in learning;
- 4- Chairs that maximize function for learning for hyperactive students

Flexibility

Adaptability and mobility

- The seat design that is comfortable needs to be flexible. It should be easy to adapt to and easy to move with, can function for a variety of sitting activities, should be easy to be reconfigured in terms of rows, clusters and circles, and can be easily stored or packed, especially for long-term use in school. The chair design should accommodate hyperactive students in centralized, collaborative, and supportive learning and groups as well as enhancing the benefits of technological advancements and teaching methods.

Variety

- Design learning chairs for hyperactive students that are appropriate to the needs for the character of individual work, for group work, and interaction with the teacher;
- Design learning chairs for hyperactive students who support a variety of skills activities, comfortable styles, and learning needs;

Active technology

- Study chairs for hyperactive students that accommodate and support the use of current technology (eg laptops, mobile devices, whiteboards, etc.) to support student learning and teaching
- Learning chairs for hyperactive students with ergonomics that are wide enough to accommodate students who are on the move.
- Learning chairs for students are hyperactive which allows proper ergonomics and comfort when using learning media. Chair design that supports the productivity of hyperactive students so that they are not left behind by other normal students.

Ergonomics and comfort

- Design learning chairs for hyperactive students designed to fit ergonomically for hyperactive students with the size and proportion needed and support learning styles
- Design of learning chairs for hyperactive students designed to increase comfort, reduce hyperactive behavior and concentration during the period of use during class;
- Chair design that adjusts to the height of hyperactive students, the weight and task of hyperactive students, so it is convenient to take part in quiet learning.

Health and safety

- Learning chairs for hyperactive students are easy to clean and sanitize regularly because hyperactive students usually have direct contact with general students and teachers and many other users;
- Learning chairs for hyperactive students that reduce the active movement of students but remain comfortable so as to reduce anxiety. With comfortable chairs, hyperactive students are not nervous when concentrating and focus, beneficial for physical health and calm.
- Choosing the right color for learning chairs for students who are hyperactive not only helps determine the purpose of calm/ but also helps students add sensory stimulation and the impact on learning and health. Color can affect emotional stability, focus or attention, cooperative attitude, support productivity, regular communication, and focus on learning.

B. Discussion and Recommendation

General Discussion

Development of study chair designs for hyperactive students in facilitating learning process has not been considered and provided by stakeholders in inclusive elementary schools. The size, and other possible characteristics, of study chair furniture of countries across the world differs with anthropometric characteristics of hyperactive students in Indonesia. Developmental research shows that the proposed furniture dimensions are more precise and more specific than existing study chair. The dimensions of the study chair proposed for hyperactive students have special specifications, especially on the armrests, seat belts, and chair legs. Modified study chairs design for hyperactive students in inclusive primary schools for the needs of students with flexible dimensions (fat students, moderate as well as thin students).

Unique Contribution

The main objective of this study is to re-study the concept of learning chair for hyperactive students in an ergonomic inclusive elementary school from a new perspective. The notable things listed on the research are:

- The QFD methodology helps designers learn to make appropriate connections between the demand of student hyperactivity and design requirements to overcome their shortcomings and limitations.
- The design of study chair is in accordance with the demands of hyperactive student, such as armrests, proper lumbar support size, flexible but strong footrests, seat belts if needed and a system of low-height adjustable legs.
- The right allocation of study chairs for hyperactive students, which is modified with quality, safety, and comfort, is preferred.
- The involvement of cyber technology in designing learning facilities for hyperactive students is very important in the QFD method because the design results are faster, more precise and accurate.



V. RECOMENDATION

Researchers who developed the design in this study have several recommendations for providing better learning chair facilities for hyperactive students in inclusive schools.

- a. The design of hyperactive students' chair should be comfortable, safe and strong.
- b. The design of learning chairs for hyperactive students requires flexible armrests which can go up and down if it is needed.
- c. Safety belts are provided if needed when hyperactive students need to concentrate on learning.
- d. Seat mounts are equipped with soft sensory pads, helping students who are hyperactive to remain calm.
- e. A solid and flexible footing is developed, considering that students' feet should be more ergonomic.
- f. Learning chairs' construction must be strong.
- g. Study chairs for hyperactive students must have the best aesthetics, innovative features, and colors with calming effects.
- h. Cyber technology can be a good alternative to the design process because it produces design images that are fast, precise, and accurate.
- i. The development of facility's designs also needs to consider the use of technology in education for students in the classroom

VI. CONCLUSION

In conclusion, this design development study aims to facilitate the design of learning chairs for hyperactive students, which consider the body dimensions, analysis of ergonomic and sitting activities during learning in inclusive elementary schools in Indonesia. This research was triggered by the unavailability of study chairs designed for hyperactive students in inclusive elementary schools in Indonesia. In developing the design of learning chair for hyperactive students, there are several specifications that have to be fulfilled. The specifications include armrests and lumbar support that can be set up and down, footrests that are strong but flexible for legs movement, soft and comfortable sensory seat, low height adjustable foot design for students with high body dimensions, and seat belts if needed for hyperactive students to be able to concentrate more on learning. The findings of this study also show clearly that the design of study chairs for hyperactive students in inclusive elementary schools in Indonesia must be made in accordance with anthropometric ergonomics assessments to meet the needs of sitting activities during the learning process in the classroom. The design of study chairs for hyperactive students is sought to be comfortable, safe and support the concentration of hyperactive students while studying in class.

Cyber technology can be a good alternative to the design process because it produces design images that are fast, precise, and accurate. 2D and 3D programs are recommended to be used in the design process, and in this case developing design learning facilities. Development of learning facilities design should also consider the use of technology for educational purpose that students in the classroom often use. Extensive research on the development of learning facilities with the involvement of cyber technology is needed so that the user convenience is increasingly fulfilled in inclusion schools in Indonesia.

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