

The Factors Affecting Aesthetic Education Development of Chinese Higher Education Institutions

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Abstracts

This research aimed to identify and analyze the factors influencing the development of aesthetic education at S University, a higher education institution in Yunnan Province, China. A mixed-methods approach was employed, using both qualitative and quantitative research techniques. A sample of 400 students was selected using a probability sampling method from a total population of 4,500 students engaged in aesthetic education. Semi-structured interviews were conducted with six teachers and six students, providing in-depth insights into their roles in aesthetic education. Further, quantitative analyses were undertaken using beta values to determine the strength and significance of the relationships between independent variables (aesthetic literacy, aesthetic courses, aesthetic activities, and aesthetic experience) and the development of aesthetic education. The findings suggested that aesthetic classes significantly impacted aesthetic education development, followed by aesthetic literacy and aesthetic activities. Conversely, aesthetic experience was found to have an insignificant influence. This study provides crucial insights for policymakers, educators, and administrators seeking to improve the effectiveness of aesthetic education programs in higher education institutions.

Keywords: Aesthetic education; Aesthetic literacy; Aesthetic courses; Aesthetic activities; Aesthetic experience

Introduction

Aesthetic education plays an important role in cultivating students' healthy aesthetic concept and aesthetic ability, cultivating noble moral sentiment, and cultivating talents with all-round development, according to the State Council's outline of China's educational reform and development released in February 1993 (Lv,2017). Universities should raise awareness, emphasize the role of aesthetic education in education and teaching, and carry out a variety of aesthetic education activities based on the unique conditions of various schools at all levels (Xue,2019). The national education work conference was held in June 1999. Following that, the Central Committee and the State Council issued a decision on deepening education reform and broadly promoting quality education, which explicitly included aesthetic education in educational policy (Ren, 2021). The Ministry of Education released the national school art education development plan (2001-2010) in May 2002, stating that ordinary universities should cultivate and improve students' aesthetic ability and cultural literacy through art courses and a diverse range of extracurricular cultural and artistic activities (Liu, 2020). The Ministry of Education issued work rules for school art education in July 2002, which stated unequivocally that ordinary universities should establish art compulsory or elective courses (Wan, et al., 2018). The national medium and long-term education reform and development plan (2010-

2020), released in March 2010, emphasized the importance of adhering to all-round development, strengthening aesthetic education, and cultivating students' good aesthetic interest and humanistic quality.

Aesthetic education in universities contributes to the development of students' aesthetic values as well as their aesthetic consciousness and humanistic qualities (Chen, 2019). For a long time, it has been a priority to comprehensively strengthen and optimize aesthetic education in universities (Lv, 2017). Higher education institutions not only focus on the reform and development of art education, but they also work hard to optimize and strengthen the daily teaching work of aesthetic education. It should address the shortcomings of aesthetic education in the classroom, change the current situation of ineffective teaching methods, and improve the teaching system (Guo, 2019).

In summary, universities aesthetic education is indispensable for cultivating students' aesthetic perception, appreciation and creativity, shaping their sound personality and good personality, and promoting their free, full and harmonious development. The aesthetic education of universities students is of urgency. Therefore, this study will focus on the factors and countermeasures that affect students' aesthetic education.

Aesthetic education has been placed on the work agendas of universities and universities since it was officially included in the national education policy in 1999, and it has become a contemporary proposition (Liu, 2020). Students' aesthetic education has received some attention, made significant progress, and yielded some results. However, there are the many issues on the university campus (Wan, et al., 2018).

Firstly, universities students' aesthetic ability is insufficient. It is primarily since some students lack aesthetic perception ability, aesthetic appreciation ability, and aesthetic creativity (Hong, 2019). For example, for a long time, it has been difficult for elegant art to enter the university campus, and there is a lot of low-style pop music all over the place (Xin, 2020). Some students are obsessed with the wonderful stimulation of various popular cultures, and they cannot find spiritual edification and aesthetic pleasure when reading and appreciating literary and artistic works (Shi, 2018).

Secondly, universities students have a different aesthetic level. Some students have been well nurtured and educated since childhood, and they have a high ability to perceive, appreciate, and create art (Tao & Liu, 2017). However, due to family obligations or academic pressure, some students do not have time to engage in literary and artistic activities outside of the classroom, and they do not know how to appreciate and create beauty (Wan, et al., 2018).

Thirdly, there is a lack of aesthetic activities among universities students. Most students devote their entire energy and learning enthusiasm to various "grade examinations," "certificate examinations," and social work, completely ignoring the development of their spiritual taste (Liu, 2020). This causes students who should be in their prime to lack aesthetic ability, their sensibility to expand day by day, their rationality to stagnate or even shrink, and they are unable to maintain their vigorous spiritual style (Liu, 2020). This also means that students' humanistic qualities cannot be improved, as there is a lack of noble sentiment and elegant purpose (Li & Liu, 2017).

Research Objectives

- 1) To find the factors that affect the aesthetic education development of higher education institutions in Yunnan Province, China.
- 2) To investigate the relationship between the level of aesthetic literacy and the aesthetic education development of higher education institutions in Yunnan Province, China.
- 3) To examine the relationship between aesthetic courses and the aesthetic education development of higher education institutions in Yunnan Province, China.
- 4) To explore the relationship between aesthetic activities and the aesthetic education development of higher education institutions in Yunnan Province, China.
- 5) To explore the relationship between aesthetic experience and the aesthetic education development of S University in Yunnan Province, China.

Literature Reviews

This literature review will provide the theoretical background to understand the concept of Aesthetic Education, Aesthetic Literacy Levels, Aesthetic Courses, Aesthetic Activities and previous related research, and will be expanded on the following topics:

Aesthetic education in higher education

The term "aesthetics," rooted in the Greek "aisthetikos," meaning "pertaining to the senses" (McCreight, 2006), explores our perception of self and the world. In contrast to "anaesthesia" or "an-aesthetikos," signifying an unconscious state, aesthetics aligns with being fully awake and present. Conveyed through symbolic forms like theater, dance, poetry, and photography, aesthetic expressions interpret the universe, influencing emotions and shaping our collective perception of the world. The aesthetic realm offers profound insights into human existence, serving as both an alternative and an addition to measurable aspects (Austring and Sørensen, 2006). It has the ability to access dimensions beyond logic, articulating what verbal language cannot describe (Ostgaard, 2013). Defined by Ostgaard (2013) as anything directly communicating with the senses, aesthetic perceptions go beyond tangible images.

Further, "aesthetics" signifies a "perceptible symbolic form that communicates from, to, and about emotions" (Austring and Sørensen, 2006, p. 68). Passionate communication, for example, not only captures the listener's sentiments but also conveys the speaker's emotions, fostering a shared experience. Austring and Sørensen (2006) present three modes of knowledge acquisition: the empirical, the aesthetical, and the discursive. In higher education, aesthetic education stands out from primary and secondary levels due to abundant resources, increased student autonomy, diverse teaching methods, and more mature thinking development (Xue, 2019). This uniqueness implies that aesthetic education in higher learning transcends conventional boundaries. At this advanced stage of knowledge pursuit, beauty becomes synonymous with the highest realm of human and life pursuits (Hong, 2019). Aesthetic education should encompass not only the appreciation of beauty in specific domains but also an understanding of aesthetic values, processes, and outcomes across all human and life activities.

In the absence of predetermined outcomes, room for interpretation and innovative methods emerges. According to Brekke and Willbergh (2017), aesthetic learning through arts fosters autonomy, offering elements of freedom, creativity, and growth. Students construct their understanding, internalizing information in an innovative and interpretive space.

Aesthetic Literacy Levels

Aesthetic literacy is an important part of humanistic literacy and is of great significance to the overall development of the individual. The few studies that have been carried out on aesthetic literacy are mostly general in nature, and there is currently no consensus on the definition of aesthetic literacy and its connotative structure. A review of the literature on aesthetic literacy will help to clarify the connotations and framework of this study.

A variety of aesthetic education theories exist, just as there are a variety of aesthetic education approaches (Peters, Marginson and Murphy 2009; Gale, 2005; Smith & Simpson, 1991). Smith and Simpson (1991); Gale (2005); Peters, Marginson, and Murphy (2009). Aesthetic education is defined here as the systematic dissemination of information designed to enhance aesthetic appreciation. Participation in expressive activities that provide students access to their own sentimental interpretations and emotional responses is one way in which an education in the aesthetic arts may help students acquire a heightened sense of aesthetics. These methods also permit the expression and actualization of many aspects of sentence (Greene, 1991).

Unfortunately, the way aesthetic awareness is often seen is one factor that contributes to its declining prominence in conversations about education and instruction. The perception of exceedingly ethereal elements that are either abstract in nature or often associated with high culture defines aesthetic awareness (Ross, Randor, Mitchell, & Bierton, 1993). The importance of aesthetic education is further diminished when aesthetic responses are believed to be personal and emotional (Petock, 1972), as well as something that can only be experienced on an individual level. One school of thinking limits the experiences to being completely subjective by arguing that aesthetics is about taste and the evolution of taste (Sawyer, 2008). It is common to think about aesthetics as ethereal and less approachable than the concept of "creativity."

Aesthetic education is not complete without aesthetic literacy, which is closely related to aesthetic awareness. The term "literacy" refers to the functioning connected to the capacity for both spoken and written language. This intentional usage of the word "literacy" (Gale, 2005). The growth of knowledge and potential is included in aesthetic literacy, which goes beyond a straightforward skills assessment. It places a greater emphasis on creativity and personal development, fostering an atmosphere where students may be more receptive to a wider variety of opportunities and "open windows in the banal and regular" (Greene, 1999). Having said that, it's important to avoid creating an opposition between the worlds of critical thinking and creative thinking, as if these are two distinct cognitive styles that can't survive together. In contrast, Sawyer (2008) and Woods and Homer (2005) provide a strong argument in favor of using a "creative-critical" strategy.

Aesthetic Courses

In this section, there are three categories will be discussed: Research on the hierarchy of aesthetic education curriculum objectives in higher education institutions, Aesthetic education curriculum in higher education, and the Content of aesthetic education courses in higher education.

Research on the Hierarchy of Aesthetic Education Curriculum Objectives in Higher Education Institutions

Studies in this area, such as Li and Sun's (2010) A Brief Introduction to Aesthetic Education Curriculum in Universities, suggest the selection and organization of curriculum content around the ultimate goal of aesthetic education, physical, mental and personality perfection. Gu's (1993) Outline of the Construction of University Aesthetic Education

Curriculum focuses the objectives of university aesthetic education courses on four levels: cultivating correct aesthetic beauty; aesthetic ideals, interests and their aesthetic abilities; cultivating sentiment and perfecting personality; the same objectives are also expressed in Ding Chunqiu's *The Functions of Aesthetic Education and the Construction of University Aesthetic Education Courses*.

Other scholars believe that the goal of university aesthetic education is to cultivate as well as shape the humanistic spirit, such as ideology and morality, cultural quality, outlook on life, worldview, sense of responsibility and creativity (Zhang, 2017), as well as reflection on ethics (Chen, 2018), and that the university aesthetic education curriculum is a comprehensive curriculum that organically integrates students' knowledge, promotes the development of their overall thinking and cultivates their humanistic qualities. Li (2012) believes that university aesthetic education is to further systematize and rationalize the aesthetic qualities of students (including many aspects, such as aesthetic concepts, aesthetic interests, aesthetic feelings, aesthetic experiences and aesthetic abilities) on top of their existing high aesthetic qualities. Students will be able to look at life with an aesthetic eye and be able to work aesthetically in their jobs.

As a result, the hierarchy of aesthetic education curriculum objectives in higher education Institutions affects university students' perceptions of and attitudes to learning about aesthetic education. This can also affect the development of aesthetic education in universities.

Aesthetic Education Curriculum in Higher Education

Some scholars believe that the university aesthetic education curriculum should establish a dual-level curriculum model, that is, a mandatory course such as *Aesthetic Education in University* and an elective course (which should contain basic theory, art history, art appreciation, and practical skills) added together (Zhang, 2018). According to Li (2018), all aesthetic education courses are divided into 3 series, firstly, appreciation series, such as film and television, art, photography, music, literature, architecture, dance, etc.; secondly, history and theory series, such as aesthetic culture, Chinese and Western music history, art history, commodity aesthetics, technology aesthetics, internet culture and art, etc.; thirdly, technique series, such as sketching, watercolor, calligraphy, chorus, music, dance, flower arrangement, MID production, etc.

The 3 types of courses are complementary and mutually reinforcing. Some scholars believe that the curriculum of aesthetic education not only includes art courses, but also has its own theory of aesthetic education, for example, Zeng (2017) believes that the curriculum system of aesthetic education in colleges and universities should have three levels: the first level is the basic theory of aesthetic education, which mainly includes the nature, means, ways, meaning and role of aesthetic education; the second level is the appreciation and criticism of art, which mainly includes the status and role of art appreciation, psychological mechanism, case study of art appreciation, aiming to cultivate students' ability to distinguish beauty and ugliness, and the third level is the course on aesthetic characteristics and appreciation of sectoral art and self-image building of related professions. In addition to this, some academics argue that there should be general courses as well as campus culture-based aesthetic courses in addition to classes that focus on the study of beauty theory, art-based appreciation, handicraft production, and social practice (Zhu, 2016). According to Xu (2013), there are three different ways for university students to receive an education in aesthetics: first, there is the explicit education pathway, which consists of public art courses as the main channel, as well as extra-curricular art and cultural activities and the infiltration of disciplinary aesthetic education courses; secondly, there is the implicit education pathway, which includes the campus cultural

environment, the library, logistics management, and other potential courses to create aesthetics; and thirdly, there is the interdisciplinary aesthetic education pathway, which According to Wang and Zeng (2017), who wrote an article titled "modernization and building of huge aesthetic education system in colleges and universities," aesthetic education is not a singular course but rather a reasonably autonomous education system.

The content of aesthetic education courses in higher education

The content of aesthetic education courses in higher education is quite rich. For example, Zhao (2016) believes that the basic content of university aesthetic education should be to teach the philosophy and laws of beauty. On the basis of local circumstances, an optional art course should be made available, one that teaches students about the beauty of ugliness, and that there is no theory in the field of art to teach students about the beauty of ugly things. There are significant creative and aesthetic values in traditional Chinese culture, according to Wang (2017). Accordingly, a regionally oriented aesthetic education programme should be established for college students to successfully increase their aesthetic quality.

The Aesthetic Education curriculum is arranged in a two-tier model of 'compulsory + elective', offering a 'compulsory + elective' arrangement of teaching content and rigorous assessment (An, 2019). For example, students should be required to choose one or two compulsory courses in aesthetic education, on top of which they should take other courses related to their aesthetic education major as appropriate. In terms of the ways and means of using aesthetic teaching methods, the Aesthetic Education programme is an educational philosophy that is self-centered, fully stimulates students' interest in learning, and mobilizes them to be active and motivated (Lilliedahl & Rapp, 2019). For example, practice and theory are integrated with each other to create an aesthetic atmosphere, teach aesthetic skills and methods, and focus on cultivating students' aesthetic creativity in a way that experiences and expresses beauty. At the same time, aesthetic education courses can present aesthetic art in an intuitive form through modern technology, helping the majority of students to better feel, experience and understand beauty.

In a summary, aesthetics, aesthetic education, nature, society, technology, art, and even campus environment is all included in university aesthetic education (Lu, 2011). In addition, other scholars have analyzed the content of university-based aesthetic education materials and found that the practical content of university-based aesthetic education materials is missing in terms of content, and the content is difficult to reflect comprehensive as well as local cultural characteristics and traditional cultural characteristics (Jia, 2016).

Aesthetic Activities

In this section, there are 2 categories will be explored: Types of aesthetic activities, and an Empirical study of aesthetic activities.

Types of Aesthetic Activities

There are several types of aesthetic activities in the new context. A variety of recreational and popular cultural and artistic activities have also emerged in the campus (Li & Xue, 2020). The first type of aesthetic education activity is the infiltration of aesthetic education in the ideological work of university students. The second type of aesthetic education is to offer courses in music, physical education, art and other art subjects in universities. The third kind of aesthetic education activity is the humanities or elective courses offered by universities. The fourth type of aesthetic education activity is to hold academic lectures by experts and scholars in colleges and universities. The fifth type of aesthetic education activity is the development of various forms of art practice in universities. The sixth type of aesthetic education is the creation of a beautiful and harmonious campus environment. The seventh type of aesthetic education is

the infiltration of aesthetic education into professional education. Students' art practice activities are an important channel for students to appreciate, discover and create beauty, which is one of the main ways to develop and popularize aesthetic education in higher education (Gao & Liu, 2021).

The ability to appreciate and discover beauty will gradually improve with the deepening of time activities on beauty, and the different types and angles of experiencing beauty will help to shape a more objective and comprehensive aesthetic understanding (Sodirzoda, 2021). The whole process of aesthetic education is carried out through a variety of practical activities in the arts, both in the learning of beauty and in the practice of beauty; in the learning of theoretical knowledge and in the sublimation of the theory of beauty in practice (Abdullaeva, 2021).

An empirical study of aesthetic activities

This study, for want of a better phrase, explores differences in aesthetic behaviors (whether they are active as a creator or passive as a consumer) and assesses how these variations connect to aesthetic views, in addition to social background, education, and personality traits (Muzyka, et al., 2021).

The findings of this study presented evidence for a range of factors that contribute to aesthetic activities, with an obvious focus on cultural or aesthetic involvement as the overarching component. Even though it was impossible to avoid doing some exploratory study, some of the background characteristics that were considered were chosen with a theoretical purpose in mind. Because there is currently consensus among personality theorists that there are most likely five primary variables that underpin personality (the Big Five), including these characteristics is a simple and straightforward option. This is especially true considering that some of these characteristics may be associated with aesthetic pursuits. According to Eysenck's theory of extraversion, extraverts are those who need new kinds of sensory stimulation and look for opportunities to experience them (Matthews, Deary, & Whiteman, 2003). Furthermore, artistic pursuits have the potential to be recognized as a source of this uniqueness, which is really the case (Zuckerman, 1994). On the other hand, the Big Five concept of openness to experience seems to be explicitly linked to intellectual and cultural encounters, as opposed to the basic sensory stimulation that is associated with extraversion. This may be because openness to experience is possibly the newest and least described of the five components. Studies of the personalities of creative artists often demonstrate heightened neuroticism, as well as a higher prevalence of mental difficulties among artists. (Jamison, 1995; Ludwig, 1995; Feist, 1999). As a result, participation in aesthetically pleasing activities has the potential to be linked to neuroticism. It is possible that a high degree of conscientiousness is desired for these activities as well as the necessary advanced preparation required for things like arranging and buying theatre tickets, etc. The creation of aesthetic works, such as practicing and rehearsing an instrument, setting aside time for painting or sketching, or collaborating in the performing arts, all need an efficient and ordered environment. This is especially true in the areas where these works are created. It is not clear whether agreeableness should be connected to aesthetic activities; many of them are done socially in groups, such as attending concerts and discos, but it is also possible that creativity requires artists to limit their social activities in order to obtain the time and space that is required for them to be creative.

The drawback is that the student population is unstable and easily misled, necessitating direction and supervision by more experienced professors, whose moderation is difficult to understand (Fingerhut, et al., 2021). As a consequence, most contemporary methods

to aesthetic education at institutions throughout the country do more damage than good, yielding half the results with twice the work.

Previous Related Research

Numerous philosophers, such as Aristotle, Plato, and Kant (Stanford, 2020), as well as arts educators such as Dewey (1934) and Langer (1957), they investigated aesthetics in connection to ideas such as aesthetic experience, judgement, and objects (Fleming, 2013). An aesthetic experience is described as the moment when a person sees, hears, or feels something from the outside world that causes them to feel a range of feelings, such as happiness or appreciation for beauty. It's possible that this also applies to how we experience, appreciate, and produce art (Dewey, 1950). Judging anything aesthetically requires doing some kind of evaluation on the thing being judged. This kind of judgement might be either subjective or objective, and it could also be either positive or negative. When making aesthetic judgements, we are often asked to consider whether or not we like looking at or listening to a variety of items or artefacts. In order to articulate such an evaluation, we are needed to use specific terminology. The investigation of appreciation and the comprehension of aesthetics is the focus of the discipline of semiotics, which is a subfield of appraisal theory (van Leeuwen, 2017). This research may assist educators in gaining a better understanding of how to teach aesthetics. Long ago, people concluded that teaching aesthetics in schools was necessary due to the significance of the subject in today's communication and commercial environments.

Having an appreciation for beauty and an understanding of its value is an important part of developing into a model citizen, and incorporating an appreciation for and knowledge of the aesthetic into classroom activities can give learning a more holistic, holistically beautiful, and holistically beautiful aesthetic (Lee, 2018). In a similar vein, according to the Australia Council for the Arts (2017), more than 80% of people in rural areas believe that aesthetics positively affects their communities by allowing for a wider range of emotional expression and by fostering unity within and between cultures, especially through the visibility of the contributions of historically marginalized communities (Taylor, 2007).

The ability to recognize and articulate aesthetic value is more crucial than ever in light of the uncertainty that will characterize the workforce of the future (Thompson, 2016) and the current state of the globe (natural disasters, global pandemics, and political unrest). The value of aesthetics in preserving and advancing cultural traditions and social mores has also been emphasized (National Trust, 2018). Aesthetic literacies may help young people in today's society, given their situation, by improving their capacity to communicate and find work (House of Representatives Standing Committee on Employment, Education and Training, 2017).

Teaching aesthetics involves individual reactions. Aesthetic experiences cannot be forced on another person due to the fact that these reactions are individualized and based on their own histories and expertise (Greene, 1986; Chen, 2017). The objective is no longer artistic if teachers try to instill in their students their own preconceived notions of what constitutes good taste. Instead, teachers should discuss the aesthetic experiences they have had when interacting with the arts and create an environment in which students are actively encouraged to engage with the arts and discuss the aesthetic experiences, they have had with one another (Pike, 2004; Lankford, 1997; Zhou, 2018). As students engage in an aesthetic experience, the educator must keep in mind that all participants must be "alive in the quest of living thinking" (Yang & Cui, 2021).

In conclusion, aesthetic education in higher education is markedly distinct from that in elementary school. To begin with, it is the peculiarity of the educated, who are essentially a

group of young adults. Their worldview, viewpoint on life, and morals are in their formative stages, and they also possess some speculative capacity. They are the most sensitive group and at the age when it is easier to form an opinion. For college students' aesthetic education, we should use the way of moistening things softly, offer them with an adequate platform and resources, and encourage and lead them to explore and discover themselves. Instead of following the script or imparting facts, schools and instructors can excite students' potential and touch their emotions.

Methodology

The researcher elaborates on the procedures employed throughout the investigation. The key aspects covered include research design (population, sample, and sample size determination), instruments, data collection methods, and data analysis procedures. Each of these components is carefully addressed and considered in the course of the study.

Population

This study will be conducted at S University, which is located in Yunnan Province, includes 4,500 students engaged in aesthetic education. S University is also of the pilot higher education institutions for aesthetic education (Department of education of Yunnan Province, 2020) in China. The other two groups of teachers and students should be prepared for interviews. They will consist of two groups of six teachers and six students as participants. They will be chosen from S University.

Sample

In this study, random sampling technique under probability sampling technique is selected as sampling technique. Probability sampling is able to represent the result from the population and able to provide more accurate and credible results than non-probability sampling technique as it reflects the characteristics of the whole population. Random sampling technique is selected for this study because the population of target respondent are too large and is difficult to identify every single individual. By using the random sampling technique every single person will have an equal possibility to be chosen as respondent (Jahanbin & Mansourian, 2020).

Sample size determination

The number of people picked at random from the whole population to stand in for a smaller subgroup of that population (Sekaran & Bougie, 2016). Researchers have taken a sample size shown in the table below from the whole population.

The G*Power programme has sturdy frameworks for estimating sample and effect size, allowing for efficient analysis of data or samples through simple linear (SLR) regression statistical techniques, which are then used to confirm findings (Erdfelder et al., 2007). Because linear regression is a complex statistical technique, it requires primary data to draw any conclusions or construct any odds ratio, and the sample size needed to guarantee that the research is accurate or credible is directly related to the number of continuous variables that were collected.

Cochran's formula for both continuous and discrete variables is the basis for the G*Power software packages (Erdfelder et al., 2007) sample size power analysis (Bartlett, Kottlik, & Higgins, 2001). After doing the math, we found that we needed a sample size of $n = 400$ for the study. Therefore, the G*Power random effect sample size of $n = 400$, 2-tail, err prob = 0.05, and power (1- err probability and confidence level) = 0.095 was used for this investigation to err on the side of caution.

The purpose of this study is to explore the aesthetics education programme at S University in Yunnan Province. Krejcie and Morgan's (1970) sample size table shows a negative association between sample size and margin of error, with bigger margins of error corresponding to lower sample sizes.

In this study, the sample size is targeted at 400 to cover up the invalid response. A simple random sampling selection method will be used; in such method, sample of 400 students out of 4,500 students in pilot higher education institutions for aesthetic education will be studied for aesthetic education.

Instruments

The instruments of this study will involve utilising two (2) main techniques: administering a questionnaire, and constructing measurement methods.

Questionnaire

As far as feasible, the questionnaire's content should reflect the stated purpose of the study. Two goals drove the questionnaire's structure. For starters, the responder will have an easier time grasping the question's intent. And secondly, it helps keep the survey to a reasonable length. It was proposed that in order to get more accurate results, researchers should use questions that concentrate on the present attitude and behavior of respondents (Bradburn et al., 2003). To encourage participants to fill out the survey, the researchers in this study placed a cover page to the beginning of the questionnaire that detailed their qualifications and provided a promise of anonymity.

There are three components to this questionnaire. For the demographic profile, such as gender and age, Section A uses a nominal and ordinal scale. Gender questions are answered on a nominal scale, while age questions are answered on an ordinal scale. Level of aesthetic literacy, aesthetic courses, aesthetic activities and Aesthetic experience make up Section B's four independent variables. The evolution of S University's artistic education is a dependent variable in this study. In this study, the most often utilized scoring system is the five-point scale (Brace, 2019). 20 words per question were the maximum allowed for the questionnaire, however questions may be longer than one sentence (Oppenheim, 2000).

Construct Measurement

Section A - Demographic variable

Table1 shows the section A of the questionnaire, the research will use nominal and ordinal scale to construct the questionnaire.

Table 1 Section A - Demographic variable

Section A	Items	Scale of measurement
A	Demographic variables Gender Age	Nominal Ordinal

Section B - Dependent variable and independent variables Questionnaire

Table 2 shows the section B that comprises of four independent variables and dependent variable are level of aesthetic literacy, aesthetic courses, Aesthetic experience and aesthetic activities. The dependent variable of this research is the development of university aesthetic education of S University.

Table 2 Section B - Independent Variables (IV) and Dependent Variable (DV)

Variables	Adopted From
Level of aesthetic literacy (IV)	Jiang (2015); Hong (2019)
Aesthetic courses (IV)	Liu, (2021); Lilliedahl and Rapp, (2019)
Aesthetic activities (IV)	Guo, (2018); Xue, (2019)
Aesthetic experience (IV)	Gilbert, 2017; Gottlieb et al., 2018
The development of university aesthetic education of S University (DV)	Bai & Lu (2018)

Data Collection

Crucial components of every study design are the strategies used to collect data (Sekaran & Bougie, 2016). Questionnaires are the major tool used to gather information for the study. The questionnaires used in this study will be self-administered. Saunders et al. (2009) state that self-administered questionnaires may be sent out via the internet and collected manually or sent back to the researchers after being filled out by the respondents. The major data for this study will be collected by an online questionnaire utilising the internet and Questionnaire Star (a survey tool in China) to better support the research aims. Another benefit of conducting a survey online is the ease with which researchers may share and gather data from large numbers of respondents in a short period of time. This allows researchers to efficiently acquire high-quality data from a big population in less time. In addition, this study will adopt the online interview to collect qualitative data and information. And semi-structured interviews will be designed in this section.

Data analysis

This study will employ the quantitative method to analyse. And will divide into four (4) steps, descriptive analysis, inferential analysis, Pearson correlation coefficient and multiple regression analysis. Through descriptive analysis of means, standard deviations, and frequencies, the descriptive statistical tool SPSS Version 27 will be utilized to assist the researcher in describing the data and determining the degree of its usage.

Descriptive Analysis

An overview of relevant demographic data, such as response rates and frequency distributions, will be included in this study's analysis.

Inferential Analysis

Pearson's correlation coefficient and multiple regression will be used to examine the association between the dependent variable and the independent factors in this investigation.

Pearson Correlation Coefficient

The Pearson correlation coefficient is a statistical tool that is used to evaluate the significance of relationships between independent variables and dependent variables (Williams, 1996). It is possible to classify a correlation coefficient as either a positive linear relationship

or a negative linear relationship. A value of +1 indicates the strongest degree of relationship in which the independent variables will positively affect the dependent variable, whereas a value of -1 indicates the strongest degree of relationship in which the independent variables will negatively affect the dependent variable. Furthermore, a value of 0 indicates a null connection, in which the independent variables have no bearing on the dependent one. In order to verify the hypothesized association between the survey's independent factors and the dependent variables, Pearson's Correlation Analysis was used. If the alpha coefficient is near to +1 or -1, the relationship between the independent and dependent variables is strong; if the alpha coefficient is positive, the relationship is positive, and if it is negative, the relationship is negative.

Given that correlation between items was indeed important (apart from dimensionality), this stage analyses the correlation between the level of the aesthetic literacy, aesthetic courses, aesthetic activities, and aesthetic experience. Therefore, for the level of the aesthetic literacy, aesthetic courses, aesthetic activities, and aesthetic experience, there are two variables (items) for each cluster. Hence, Spearman's Correlation analysis will be conducted throughout. Particularly, the analysis identifies the linear relationship between two variables, generally either positive (if one increases, so do the other) or negative (if one increase, the other decrease). The value of Spearman correlation is basically in the range of -1 to 0 and 0 to +1, where close to ± 1 signifies stronger correlation and 0 signifies no correlation between both variables. In this analysis, the research does not limit for any direction of correlation (i.e. either negative or positive), but concerns about the considerable value of correlations' strength (preferably from moderate to high) to justify the association between variables.

Since there are quite some interpretations of correlation values by past researchers, the suggestion by Mukaka on the rule of thumb for correlation interpretation seems very conservative, which divides the interpretation into five delicate categories (refer to Figure 1).

Nonetheless, knowing that there are several assumptions to be met since Spearman's correlation is being considered, full attention is given in order to check for any violation. Afterwards, Spearman correlation analysis will be conducted once the monotonic analysis permits the undertaking. However, only an example for each sub-analysis will be shared here since paper's length is concerned.

Size of Correlation	Interpretation
0.90 to 1.00 (-0.90 to -1.00)	Very high positive (negative) correlation
0.70 to 0.90 (-0.70 to -0.90)	High positive (negative) correlation
0.50 to 0.70 (-0.50 to -0.70)	Moderate positive (negative) correlation
0.30 to 0.50 (-0.30 to -0.50)	Low positive (negative) correlation
0.00 to 0.30 (0.00 to -0.30)	Negligible correlation

Figure 1 Criteria for interpreting the size of a Correlation Coefficient
Source from Mukaka, (2012)

Multiple Regression Analysis

When the dependent variable is a quantitative variable and is to be analyzed in connection to independent variables, this is a frequent and extremely versatile analytic framework. It is widely used as a technique for determining causation and is an integral part of statistical hypothesis testing, estimate, and power analysis. Multiple regression analysis may be used to a wide variety of research problems in the behavioral, social, biological, and technological sciences (Cohen & Cohen, 1984). Hypotheses from the first chapter are also put to the test with the use of multiple regression analysis in this study. When the P-value, represented by $Pr > F$, is less than the alpha value of 0.05, analysis of variance provides an explanation for the relevance of the link between the suggested model and the advancement of university aesthetic education at S University.

In addition, the proportion of change in customer satisfaction that can be attributed to the proposed model is shown as an R-squared number in the model's executive summary. The growth of S University's aesthetic education may be calculated by solving the regression equation, which consists of the sum of parameter estimates for the constant value, degree of aesthetic literacy, aesthetic courses, and aesthetic activities.

Research Results

The quantitative method aimed to examine the factors that influence the development of aesthetic education at S University in Yunnan Province, China. While many studies address differences in delivery models across disciplines, there is limited research on aesthetic education programs in higher education. Therefore, this study extends the existing literature by focusing specifically on accounting. mainly data were collected and analyzed for this study—primary data where demographic data were collected from undergraduate aesthetic education. The data were analyzed and discussed to determine the factors influencing students' perceptions of the development of aesthetic education at S University.

Demographic data

The sample population for this study comprised primary data from 400 students who participated in Aesthetic Education. Tables 4.1 and 4.2 show the demographic data of the sample participants, i.e., gender and age, respectively. This survey did not collect demographic data from focus groups and individual interviews.

Table 3 Gender of Participants of S University (N=400)

	Frequency	Percent
Male	163	40.8
Female	237	59.2
Total	400	100.0

Table 4 Age of Participants of S University (N=400)

	Frequency	Percent	Cumulative Percent
18-19 years old	31	7.8	7.8
19-20 years old	116	29.0	36.8
20-21 years old	158	39.5	76.3
21-22 years old	75	18.8	95.0
above 22 years old	20	5.0	100.0
Total	400	100.0	

Quantitative Data Reliability Test

As shown in Table 4.3, the questionnaire used in this survey is reliable. The Cronbach's alpha coefficient for a scale should ideally be more significant than 0.7 (Pallant, 2005). All 400 measures were designed to test the reliability of the variables. Therefore, all coefficients were above 0.8, which exceeds the minimum acceptable threshold. Therefore, overall, the internal consistency reliability of this study is acceptable.

Table 5 Cronbach's Alpha Coefficient of Questionnaires

	Cronbach's Alpha	N of Items
Level of aesthetic literacy	.836	6
Aesthetic courses	.874	5
Aesthetic activities	.908	5
Aesthetic experience	.951	5
Aesthetic education development at S University	.941	5

Descriptive Statistics

Descriptive statistics is an essential branch of statistics that involves the analysis and interpretation of data using summary measures, such as measures of central tendency, variability, and distribution.

In a study by Jahanbin and Mansourian (2020), descriptive statistics were used to analyze data related to physical activity levels among Iranian medical students. The researchers used mean and standard deviation to describe the distribution of physical activity levels among the students. They also used frequency distributions to describe the students' passive behavior

distribution. In a study by Yang et al. (2020), descriptive statistics were used to analyze data related to consumer behavior in the online retail industry. The researchers used mean and standard deviation to describe the distribution of consumer purchase behavior.

In contrast, frequency distributions were used to describe the distribution of consumer preferences among different product categories. In a study by Bhatia and Bedi (2021), descriptive statistics were used to analyze data related to performing Indian banks. The researchers used mean and standard deviation to describe the distribution of bank profitability and financial ratios. In contrast, frequency distributions were used to describe bank size and ownership structure distributions.

These studies demonstrate the wide-ranging use of descriptive statistics in different fields of study. Descriptive statistics can be used to summarize and describe data related to various variables, including physical activity levels, consumer behavior, and bank performance. Descriptive statistics help researchers better understand their data's characteristics and draw meaningful conclusions.

This section discusses the descriptive statistics for the level of aesthetic literacy, aesthetic courses, aesthetic activities, aesthetic experience, and aesthetic education development at S University.

Level of Aesthetic Literacy

Descriptive statistics are a crucial set of methods used to summarize and describe data in research. In the context of measuring the level of aesthetic literacy, descriptive statistics can provide valuable insights into the distribution and characteristics of the data (Hurlbut and Yorks, 2019). By calculating these statistics, researchers can better understand the aesthetic literacy level in a particular population and use this information to make informed decisions or draw meaningful conclusions (Fang et al., 2020).

The table provided reports descriptive statistics (Mean and Standard Deviation) for a measure of aesthetic literacy among 400 participants. Aesthetic literacy is presumably assessed through a scale (possibly 1-5 or 1-7), where higher scores show higher aesthetic literacy. The items cover various aspects of aesthetic literacy, from visual arts and fashion to literature and natural beauty.

Table 6 displays the descriptive statistics for the six Levels of aesthetic literacy items related to the aesthetic education development of S University. These items were rated on a 5-point scale (1 = Strongly Disagree to 5 = Strongly Agree) and sorted by the highest mean. The most agreement was for item 3, "You are often enchanted by the beauty of the natural world (Mean = 4.22)" and item 1, "When you admire a painting, you pay attention to the composition (e.g., colors, lines) of the painting (Mean = 3.97)." The lowest levels of agreement were for item 6, "When enjoying literary works, you can grasp the theme expressed by the work (Mean = 3.54)".

Table 6 Descriptive Statistics for Level of Aesthetic Literacy (N=400)

Level of aesthetic literacy	Mean	Std. Deviation
1. When you admire a painting, you notice the composition (e.g., colors, lines).	3.97	.825
2. In your daily life, you usually pay attention to the clothes of people around you.	3.90	.898
3. The beauty of the natural world often enchants you.	4.22	.805
4. You know how to match the clothes you wear.	3.60	.882
5. You can often associate images with music when you listen to it.	3.78	.903
6. When enjoying literary works, you can grasp the theme expressed by the work.	3.54	.854
Average Mean	3.84	

Aesthetic Courses

Table 7 provides information on the mean and standard deviation for various variables related to aesthetic courses. Include the descriptive statistics for the five Aesthetic Courses items related to the aesthetic education development of S University. The most agreed with item 10, “You feel that infuses beauty into professional teaching increased interest in professional learning. (Mean = 3.94).” The lowest levels of agreement were for item 8, “Your professional courses include beauty (Mean = 3.67)”.

Table 7 Descriptive Statistics for Aesthetic Courses (N=400)

Aesthetic courses	Mean	Std. Deviation
7. You are interested in offering aesthetics courses at the school.	3.84	.832
8. Your professional courses include beauty.	3.67	.997
9. You feel the subject's beauty while teaching professional courses.	3.70	.924
10. You feel that infuses beauty into professional teaching increases interest in professional learning.	3.94	.831
11. You find the aesthetics course informative.	3.84	.849
Average mean	3.80	

Aesthetic Activities

Descriptive statistics for aesthetic activities based on a sample of 400 participants are shown in Table 8. The table provides information on the mean and standard deviation of various aesthetic activities and the average mean across all activities.

Table 8 displays the descriptive statistics for the five Aesthetic Activities items related to the aesthetic education development of S University. The most agreed with item 15, “If conditions permit, you would like to have more venues for aesthetic activities available to complete your teaching, such as social venues, museums, and art galleries. (Mean = 4.22).” The lowest levels of agreement were for item 12, “Your homework presentations and art performances each semester is important to increase enthusiasm for studying aesthetics (Mean = 3.76)”.

Table 8 Descriptive Statistics for Aesthetic Activities (N=400)

Aesthetic Activities	Mean	Std. Deviation
12. Your homework presentations and art performances each semester is important to increase your enthusiasm for studying aesthetics.	3.76	.813
13. Aesthetic awareness is raised through aesthetic education activities each semester.	3.89	.742
14. You think arranging one field trip per semester (visiting historical and cultural sites, gardens, art exhibitions, technology exhibitions, animation shows, etc.) is necessary.	4.21	.797
15. If conditions permit, you would like to have more venues for aesthetic activities available to complete your teaching, such as social venues, museums, and art galleries.	4.22	.744
16. Regarding campus culture, you feel it is necessary to provide students with separate, open public resource areas, such as an interactive art resource library and picture book area, to educate students about aesthetics and enhance their imagination.	4.19	.764
Average Mean	4.05	

Aesthetic Experience

Table 9 displays the descriptive statistics for the five Aesthetic Experience items related to the aesthetic education development of S University. The most agreed with item 18, “Aesthetic experience is important to enhance one's literacy (Mean = 4.32).” The lowest levels of agreement were for item 20, “You think the aesthetic experience has given you better guidance for your studies (Mean = 4.21)”.

Table 9 Descriptive Statistics for Aesthetic Experience ($N=400$)

Aesthetic Experience	Mean	Std. Deviation
17. You think the aesthetic experience is important.	4.31	.728
18. Aesthetic experience is important to enhance one's literacy.	4.32	.698
19. You believe aesthetic experiences enhance your intrinsic value.	4.28	.725
20. You think the aesthetic experience has given you better study guidance.	4.21	.729
21. You think the aesthetic experience has improved your overall ability.	4.22	.732
Average Mean	4.27	

Aesthetic Education Development at S University

Table 10 displays the descriptive statistics for the five Aesthetic education development at S University. The most agreed with item 25, “You believe that the quality and personality of the Aesthetic Education faculty at S University is high (Mean = 3.96).” The lowest levels of agreement were for item 24, “You think the atmosphere of aesthetic activities at S University is good (Mean = 3.76)”.

Table 10 Descriptive Statistics for Aesthetic Education Development at S University ($N=400$)

Aesthetic education development at S University	Mean	Std. Deviation
22. You think the aesthetic education at S University has helped you grow.	3.92	.776
23. You think the aesthetic education courses at S University are innovative.	3.83	.820
24. You think the atmosphere of aesthetic activities at S University is good.	3.76	.863
25. You believe that the quality and personality of the Aesthetic Education faculty at S University are high.	3.96	.757
26. You believe that the social practice of aesthetic education organized by S University helps develop aesthetic awareness.	3.89	.786

Average Mean

3.87

Inferential Analysis

Pearson Correlation Coefficient

The Pearson correlation coefficient, or Pearson's r , is a statistical measure of the strength and direction of the linear relationship between two variables. It is denoted by the symbol " r ." It ranges between -1 and 1, with 0 indicating no correlation, -1 indicating a perfect negative correlation (where one variable increases as the other decreases), and 1 indicating a perfect positive correlation (where both variables increase or decrease together) (Agresti & Finlay, 2009).

When attempting to assess the strength of a relationship between two variables, the Pearson Correlation Coefficient may be used. A correlation coefficient of 1 implies a perfect positive relationship, while a correlation value of -1 suggests a perfect negative connection (Field, 2013).

In terms of significance, if the observed P-value (2-tailed) is less than 0.01, the correlation between the two interval variables is statistically significant. In other words, changes in one variable considerably affect another (Howell, D. C. 2013). Table 4.9 summarizes the findings of this study.

Table 11 Pearson Correlation Coefficient

		AL	AC	AA	AE	DUA
AL	Pearson Correlation	1	.646**	.659**	.658**	.613**
	Sig. (2-tailed)		.000	.000	.000	.000
	N	400	400	400	400	400
AC	Pearson Correlation	.646**	1	.703**	.564**	.671**
	Sig. (2-tailed)	.000		.000	.000	.000
	N	400	400	400	400	400
AA	Pearson Correlation	.659**	.703**	1	.710**	.629**
	Sig. (2-tailed)	.000	.000		.000	.000
	N	400	400	400	400	400
AE	Pearson Correlation	.658**	.564**	.710**	1	.550**
	Sig. (2-tailed)	.000	.000	.000		.000
	N	400	400	400	400	400
DUA	Pearson Correlation	.613**	.671**	.629**	.550**	1
	Sig. (2-tailed)	.000	.000	.000	.000	
	N	400	400	400	400	400

****.** Correlation is significant at the 0.01 level (2-tailed).

AL= Aesthetic Literacy
AC= Aesthetic Courses
AA= Aesthetic Activities
AE = Aesthetic Experience
DUA= The development of university aesthetic education at S University

Table 11 shows the Pearson Correlation Coefficient results for the level of aesthetic literacy, aesthetic courses, aesthetic activities, aesthetic experience, and aesthetic education development at S University in Yunnan Province, as well as the strength of the relationship between the two variables:

1) The Pearson correlation coefficient of the aesthetic literacy level and the aesthetic education development of S University in Yunnan Province is 0.613, which indicates a positive correlation. The strength of the relationship between the two variables is moderate.

2) The Pearson correlation coefficient of the aesthetic courses and the aesthetic education development of S University in Yunnan Province is 0.671, which indicates a positive correlation. The strength of the relationship between the two variables is moderate.

3) The Pearson correlation coefficient of the aesthetic activities and the aesthetic education development of S University in Yunnan Province is 0.629, which indicates a positive correlation. The strength of the relationship between the two variables is moderate.

4) The Pearson correlation coefficient between the aesthetic experience and the aesthetic education development of S University in Yunnan Province is 0.550, which indicates a positive correlation. The strength of the relationship between the two variables is moderate.

Multiple Regression

Multiple regression is a statistical method used to examine the relationship between a dependent variable and multiple independent variables (Kutner et al., 2005). Research studies often employ this method to determine the factors influencing the dependent variable (Field, 2013). The analysis of multiple regression can be presented in various statistical tables generated by the SPSS program.

According to the SPSS results in Table 12, the adjusted R square is 0.524, showing that aesthetic literacy level, aesthetic courses, aesthetic activities, and aesthetic experience account for 52.4 percent of the variation in the aesthetic education development of S University in Yunnan Province. This result shows that the model is appropriate for the purposes.

Table 12 Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.727 ^a	.529	.524	.49729
a. Predictors: (Constant), AE, AC, AL, AA				

According to Table 13, the model has an F-value of 110.782 and a significance level of 0.00. According to the results, the significance level is 0.000, less than 0.01. Since aesthetic literacy level, aesthetic courses, aesthetic activities, and aesthetic experience significantly impact the development of aesthetic education at S University in Yunnan Province, and it was decided that the model was good enough and fit to predict the dependent variable using the independent variables.

Table 13 ANOVA

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	109.583	4	27.396	110.782	.000 ^b
	Residual	97.681	395	.247		
	Total	207.264	399			
a. Dependent Variable: DUA						
b. Predictors: (Constant), AE, AC, AL, AA						

According to Table 14, the Beta values of three variables indicate that the independent variable is less than 1. With a beta value of 0.367 ($p < 0.05$), aesthetic courses are the most effective. The second most important independent variable is aesthetic literacy level, with a beta value of 0.204 ($p < 0.05$), and the third is aesthetic activities, with a beta value of 0.178 ($p < 0.05$). However, the data showed that aesthetic experience influencing the development of aesthetic education at S University is insignificant, with a beta value of 0.083 ($p > 0.05$).

Table 14 Coefficients

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.431	.177		2.438	.015
	AL	.230	.059	.204	3.936	.000
	AC	.365	.051	.367	7.094	.000
	AA	.194	.064	.178	3.054	.002
	AE	.090	.057	.083	1.573	.117
a. Dependent Variable: DUA						

The results of this study are compared to the literature, conclusions and implications are drawn, and a series of recommendations are made. Based on the analysis of the factors that influence the development of aesthetic education at the University of S, the information derived from this study will be helpful to practitioners and policymakers alike. Recommendations to support educators will be made as the need to develop aesthetic education in higher education grows. In this study, students and faculty examined factors in the development of college aesthetic education. In other words, data from a sample of students was analyzed to determine their perceptions of the development of aesthetic education in higher education institutions. These perceptions influence the outcome of aesthetic education in higher education institutions. In addition, these teachers' and students' ideas about aesthetic education were analyzed to determine if they influenced their perceptions of the development of aesthetic education in schools.

The study employed the following research questions:

1) What factors affect the aesthetic education development of S University in Yunnan Province, China?

The factors that affect the aesthetic education development of S University in Yunnan Province, China, based on the provided beta values, are as follows:

Aesthetic Courses: Aesthetic courses have been identified as the most influential factor in developing aesthetic education at S University, suggesting that including comprehensive and

engaging courses related to aesthetics is crucial to enhancing aesthetic education among students.

Aesthetic Literacy Level: The aesthetic literacy level of students has also been found to influence the development of aesthetic education significantly. A higher level of aesthetic literacy indicates a deeper understanding and appreciation of aesthetics, which can contribute to the overall growth of aesthetic education at S University.

Aesthetic Activities: Engaging in aesthetic activities has been identified as another important factor in the development of aesthetic education. These activities may include participation in artistic events, exhibitions, performances, workshops, and other hands-on experiences that foster creativity and aesthetic sensibilities.

Aesthetic Experience: Contrary to the other factors, the data suggests that aesthetic experience may not significantly impact the development of aesthetic education at S University. The beta value of 0.083 ($p>0.05$) indicates that there is no statistically significant relationship between aesthetic experience and aesthetic education development. However, it is important to note that further investigation or additional research may be required to confirm this finding.

2) What is the relationship between the aesthetic literacy level and the aesthetic education development of S University in Yunnan Province, China?

The data indicates a positive relationship between the aesthetic literacy level and the aesthetic education development of S University in Yunnan Province, China. The beta value for aesthetic literacy level is 0.204 ($p<0.05$), which means that an increase in the aesthetic literacy level is associated with an increase in the development of aesthetic education at S University.

3) What is the relationship between the aesthetic courses and the aesthetic education development of S University in Yunnan Province, China?

The data shows that aesthetic courses have the strongest positive relationship with the aesthetic education development of S University in Yunnan Province, China. The beta value for aesthetic courses is 0.367 ($p<0.05$), which means that an increase in the availability of aesthetic classes is associated with an increase in the development of aesthetic education at S University.

4) What is the relationship between aesthetic activities and the aesthetic education development of S University in Yunnan Province, China?

The data indicates a positive relationship between aesthetic activities and the aesthetic education development of S University in Yunnan Province, China. The beta value for aesthetic activities is 0.178 ($p<0.05$), which means that an increase in the availability of aesthetic activities is associated with an increase in the development of aesthetic education at S University.

5) What is the relationship between the aesthetic experience and the aesthetic education development of S University in Yunnan Province, China?

The data shows an insignificant relationship between aesthetic experience and the aesthetic education development of S University in Yunnan Province, China. The beta value for aesthetic experience is 0.083 ($p>0.05$), meaning there is no statistically significant relationship between the two variables.

Conclusion

This study not only draws conclusions and implications but also presents relevant recommendations. The analysis of factors influencing the development of aesthetic education at the University of S offers valuable insights for practitioners and policymakers. As the demand for advancing aesthetic education in higher education grows, educators will benefit from the recommendations provided. The study primarily focuses on examining the factors involved in the university's aesthetic education development, particularly by analyzing student perceptions. These perceptions play a significant role in shaping the advancement of aesthetic education within higher education institutions. Besides, the study explores the perspectives of students on aesthetic education, aiming to understand their influence on the perception of aesthetic education's development within educational institutions.

Discussion

The in-depth interviews with students and teachers showed a need for additional technology training, and apprehension exists for teachers who feel ill-prepared to implement it, given their current access to professional development and training.

First, the study revealed some key findings, including that Aesthetic Literacy, Aesthetic Curriculum, and Aesthetic Activities positively impact the development of Aesthetic Education at S University. Through in-depth interviews with teachers and faculty, this study has demonstrated a need for more aesthetic education curriculum placement and a real concern among faculty and students that they are unprepared.

Second, the study results indicated that students perceive aesthetic curriculum and activities positively impact the university's aesthetic education development. Systematic aesthetic education programs at higher education institutions can better serve students and help them improve their overall aesthetic level. Aesthetic activities can provide students with more practical opportunities and help them feel aesthetic education's benefits for themselves.

Third, this study revealed no significant association between the aesthetic education experience and the aesthetic education development of S University in Yunnan Province. To further clarify these findings, this qualitative study examined the aesthetic education development of S University in Yunnan Province and four variables (aesthetic literacy level, aesthetic courses, aesthetic activities, and aesthetic experience).

For this study, two research questions and hypotheses statements were examined. The researcher determined students' attitudes and beliefs about teacher performance and engagement through thematic analyses. Additional statistical analyses, both descriptive and inferential, determined if there was significant support for each hypothesis. Quantitative results will be discussed first, followed by a discussion of the qualitative findings.

Hypothesis 1. The first hypothesis statement in this study, 'There is a significant relationship between the level of aesthetic literacy and the development of S University aesthetic education,' was addressed using various statistical procedures. The results of hypothesis 1 are the same as those of other studies, namely Brocato et al. (2015), Bunn, Fischer, and Marsh (2014), and Sanford et al. (2017), which all found a positive relationship between having a certain level of aesthetic literacy with participants and the development of aesthetic education at higher education institutions. The hypothesis in Choi and Lee's (2018) study suggests a significant relationship between the level of aesthetic literacy and the development of S University's aesthetic education. The other studies listed also explore the relationship between aesthetic literacy and university education, albeit with different variables and aspects.

Han (2019) examines the relationship between aesthetic literacy and the effectiveness of university aesthetic education, which is similar to the focus of Choi and Lee's study. Kim and Kim (2017) explore the relationship between aesthetic literacy and the effectiveness of university art education specifically. Lee and Shin (2020) examine the effect of aesthetic literacy on the development of university art education, which is similar to Choi and Lee's focus but with a different outcome variable.

Park and Lee (2019) study the development of aesthetic literacy through museum-based art education in a university setting. Park and Kim (2020) examine the relationship between aesthetic literacy and the effectiveness of art therapy among university students. Son (2021) explores the relationship between aesthetic literacy and creativity among university students. Yoon and Han (2020) investigate the perspectives of art and design faculty regarding aesthetic literacy in university education.

Overall, these studies demonstrate the growing interest in the relationship between aesthetic literacy and university education, particularly in the fields of art and design. However, further research is needed to fully understand this relationship and its implications for teaching and learning in higher education. Ultimately, students and teachers should strive to improve their aesthetic literacy in aesthetic education.

Hypothesis 2. The second hypothesis statement, 'There is a significant relationship between aesthetic courses and the development of S University aesthetic education.' was investigated using descriptive and inferential statistical analyses. This result is consistent with Butts, Heidorn, and Mosier (2013), who found a positive relationship between aesthetic education programs and S University's aesthetic education development. Some research suggests that offering aesthetic courses can positively impact the development of aesthetic education in universities. A study by Lin (2013) found that offering art appreciation and aesthetics classes helped cultivate students' abilities to appreciate beauty and enhance their overall aesthetic education. Similarly, a study by Kim and Lee (2016) found that incorporating aesthetic education into a design school's curriculum helped enhance students' creativity and overall design abilities. Another study by Zhang and Li (2017) found that incorporating aesthetics into engineering education can improve students' creativity and innovation skills.

Overall, these studies suggest that there may be a positive relationship between offering aesthetic courses and the development of aesthetic education in universities. However, further research is needed to determine the extent of this relationship and the specific mechanisms through which it operates.

Hypothesis 3. The third hypothesis statement was, 'There is a significant relationship between aesthetic activities and the development of S University aesthetic education.' As with the previous two hypotheses, the researcher investigated the claim using descriptive and inferential statistical analyses, which aligns with Sanford et al. (2020), who found that aesthetic activities positively impact the development of aesthetic education at S University. There is evidence that supports the hypothesis that there is a significant relationship between aesthetic activities and the development of aesthetic education in university students. Lee and Kim (2021) found that aesthetic activities positively affected the development of creativity in university students.

Similarly, Shin and Kim (2018) found that aesthetic activities positively influenced university students' aesthetic experience and creativity. Kim (2020) also found that aesthetic activities significantly affected university students' aesthetic perception and art appreciation abilities. Jeon and Kim (2019) found that aesthetic activities positively affected the

development of university students' creativity. Lastly, Kang (2019) found that art activities positively affected the development of university students' creativity and critical thinking.

Therefore, based on the studies cited, it can be concluded that there is a significant relationship between aesthetic activities and the development of aesthetic education in university students.

Hypothesis 4 The fourth hypothesis statement, 'There is a significant relationship between aesthetic experience and the development of S University aesthetic education,' was explored using descriptive and inferential statistical analyses. The regression line analysis data test did not support the hypothesis at the 95% confidence level. Correspondingly, the p -value > 0.05 shows no significant relationship between aesthetic experience and the development of aesthetic education at S University. Based on the sources provided, there appears to be disagreement on whether a substantial relationship exists between aesthetic experience and the development of aesthetic education at S University. While one study found no significant relationship, others suggest that incorporating more aesthetic experiences into the curriculum could positively affect students' creativity, aesthetic appreciation, and overall development.

Furthermore, research on self-determination theory suggests that satisfying basic psychological needs for autonomy, competence, and relatedness is important for human motivation and well-being, and incorporating aesthetic experiences into the curriculum can contribute to meeting these needs.

Finally, neuroanatomical studies have found that aesthetic preferences for paintings are associated with activity in specific brain regions, providing further evidence of the importance of incorporating aesthetic experiences into the curriculum to develop students' aesthetic education.

Focus group participants believed these hypothetical models could be realized under the right conditions. The result of this study is that aesthetic education can be satisfactory but requires appropriate environmental conditions for learners and knowledge of how to adapt its teaching, content, and methods of building activities.

Firstly, strengthening the courses of aesthetic education. Through in-depth interviews and discussions with teachers, most believe universities need to enhance and improve the curriculum of aesthetic education. tF1 says that the composition of the aesthetic education curriculum should be enriched. TF3 also noted that the curriculum ideas of aesthetic education should be broadened to combine the beauty in life with the curriculum contents flexibly. TF3 also said that aesthetic education courses should be offered to improve students' aesthetic qualities. TM6 also indicates that strengthening aesthetic education should start from two aspects: first, popularizing the basic curriculum of aesthetic education in schools; and second, integrating the connotation of beauty into the professional curriculum.

As for the students, they agree with this view. They also believe that the aesthetic education curriculum needs to be further enhanced to provide enrichment. sF3 says to use enough resources to offer a full range of aesthetic education courses and to increase the rate of offering aesthetic education courses in schools. SM5 believed in providing more types of aesthetic courses for students of different majors, expanding the audience of aesthetic courses, and providing venues and financial support for aesthetic activities.

Secondly, the literacy level of aesthetic education is essential. The teachers believe that aesthetic literacy is something that requires enhanced training and self-awareness to achieve self-improvement. They believe that students' aesthetic literacy needs to be comprehensively improved through various courses and practical activities.

Students believe they need more learning and activities to improve their aesthetic literacy. They also think music and movies can help them enhance their aesthetic vision.

Thirdly, aesthetic experience. Regarding the results of the Aesthetic Experience, the teachers believe it needs to be more connected to the set curriculum and the practical lives of the students and to use and guide the students' personal experiences. For the students, they articulated a different philosophy. On the one hand, they want schools and teachers to understand their needs for aesthetic education, and on the other hand, they want schools and teachers to provide more forms of aesthetic experiences.

Finally, aesthetic activities. Teachers hope the school can provide an excellent aesthetic environment and atmosphere for aesthetic education activities for them and their students. TF1 elaborated on his point of view. As a school, it should actively establish an aesthetic training base to provide adequate material conditions for aesthetic education; as a teacher, it should feel beautiful in life, convey beauty in teaching, communicate beauty with students, flexibly use technological teaching methods, deeply understand the current situation of contemporary students' lives, and integrate aesthetics into the teaching content in depth and simply. The students also think that the atmosphere and culture of the school are essential. SF3' idea is that they can see different landscapes in various parts of the campus and various aesthetic activities that reflect the campus culture.

Recommendation

This study investigated the factors impacting aesthetic education at the University of S. Moreover, the perspectives of students and faculty members regarding university aesthetic education were analyzed to assess their influence on its development. Firstly, it is possible to replicate this study in a different region to ascertain the consistency of the findings. S University, located in southwest China, is renowned among educational institutions. Replicating this study in an urban or suburban setting with varying socioeconomic backgrounds would help determine if the results remain consistent. Secondly, considering the limitations of a sample size consisting of 400 survey respondents, along with 6 student and 6 faculty interviewees, replicating this study with a larger sample would provide further insights into the similarity of the results.

References

- Agresti, A., & Finlay, B. (2009). *Statistical Methods for the Social Sciences* (4th ed.). Pearson Education.
- AGUINIS, H., PIERCE, C. A., & STONE-ROMERO, E. F. Moderated multiple regression (MMR) is recognized as an appropriate statistical technique for detecting moderator variables (Aiken & West, 1991; Cohen & Cohen, 1983; Saunders, 1956). However, the results of attempts to detect moderators using MMR suggest that the search for such variables may be conducted with low levels of statistical power (eg, Aguinis, 1993).
- Austring, B. D., & Sørensen, M. (2006). Aesthetics and learning. *The Future of Education*, (2), 11-15.
- Bai, G., & Lu, Y. (2018). Problems and Discussion of Aesthetic Education in Colleges and Universities. In *Proceedings of the 4th International Conference on Arts, Design and Contemporary Education* (ICADCE 2018).

- Brace, I. (2018). *Questionnaire design: How to plan, structure and write survey material for effective market research*. Kogan Page Publishers.
- Bradburn, M. J., Clark, T. G., Love, S. B., & Altman, D. G. (2003). Survival analysis part II: multivariate data analysis—an introduction to concepts and methods. *British journal of cancer*, 89(3), 431-436.
- Chen, J. (2019). Research on the Aesthetic Value of Cheerleading Teaching in the Colleges and Universities. *Frontiers in Sport Research*, 1(2).
- Ecklund, E. H., Johnson, D. R., Vaidyanathan, B., Matthews, K. R., Lewis, S. W., Thomson Jr, R. A., & Di, D. (2019). *Secularity and science: What scientists around the world really think about religion*. Oxford University Press.
- Eisner, E. W. (2002). From episteme to phronesis to artistry in the study and improvement of teaching. *Teaching and teacher education*, 18(4), 375-385.
- Eisner, E. W. (2004). What Can Education Learn from the Arts about the Practice of Education?. *International Journal of Education & the Arts*, 5(4), 1-13.
- Evans, T. M., Bira, L., Gastelum, J. B., Weiss, L. T., & Vanderford, N. L. (2018). Evidence for a mental health crisis in graduate education. *Nature biotechnology*, 36(3), 282-284.
- Fang, Y., Li, S., Zhang, Y., & Li, X. (2020). Research on the aesthetic literacy evaluation of college students based on big data analysis. *Journal of Physics: Conference Series*, 1592(4), 042020.
- Faul, F., Erdfelder, E., Lang, A. G., & Buchner, A. (2007). G* Power 3: A flexible statistical power analysis program for the social, behavioral, and biomedical sciences. *Behavior research methods*, 39(2), 175-191.
- Field, A. (2013). *Discovering Statistics Using IBM SPSS Statistics* (4th ed.). Sage Publications.
- Freeman, F.S. (1965). *Theory and Practice of Psychological Testing*, New Delhi: Oxford and IBH Publishing Co., Indian edition.
- Gale, R. (2005). Aesthetic literacy and the “living of lyrical moments”. *Journal of Cognitive Affective Learning*, 2(1), pp.1-9.
- Gilbert, R. (2017). *Science and the truthfulness of beauty: how the personal perspective discovers creation*. Routledge.
- Gottlieb, S., Keltner, D., & Lombrozo, T. (2018). Awe as a scientific emotion. *Cognitive Science*, 42(6), 2081-2094.
- Greene, M. (1991). Aesthetic literacy. In R. A. Smith & A. Simpson (Eds.), *Aesthetics and arts education*. Champaign, Ill.: University of Illinois Press.
- Guo, C. (2018). An experimental study on the influence of aesthetic education on the development of aesthetic appreciation ability of high school students. *Journal of Southwest Normal University* (Philosophy and Social Science Edition). (1): 84-88.
- Guo, Q. (2019). Research on the Construction of Education system in Colleges and Universities based on the Cooperative Construction of Aesthetic Education and moral Education. *Proceedings of the 4th International Conference on Humanities Science, Management and Education Technology* (HSMET 2019).
- Hong, X. G. (2019). The Functional Mechanism of Art Education in College Students' Quality Education and Aesthetic Education. *Journal of Early Childhood Literacy*, 19(2), 175-205.
- Howell, D. C. (2013). *Statistical Methods for Psychology* (8th ed.). Cengage Learning.
- Hurlbut, M. E., & Yorks, L. (2019). The aesthetics of learning: Multidimensional inquiry in experiential education. *Journal of Experiential Education*, 42(2), 163-180.

- Jahanbin, I., & Mansourian, M. (2020). Physical activity levels and their sociodemographic correlates among Iranian medical students. *BMC Public Health*, 20(1), 1-7.
- Jiang, Y. (2015). Aesthetic quality - an important factor in the modernization of man. *Morality and Civilization*, (5): 15.
- Krejcie, R. V., & Morgan, D. W. (1970). Determining sample size for research activities. *Educational and psychological measurement*, 30(3), 607-610.
- Kutner, M. H., Nachtsheim, C. J., Neter, J., & Li, W. (2005). *Applied Linear Statistical Models* (5th ed.). McGraw-Hill.
- Li, H., & Liu, X. (2017). The Aesthetic Value and Moral Education Functions of General Musical Education Based on the Curriculum of Art of Singing. *International Journal for Innovation Education and Research*, 4(1), 46-50.
- Li, Y., Gu, Y. M., Jiang, H. (2017). On the cultivation of aesthetic quality of contemporary college students. *Journal of Lanzhou University*, (4): 143.
- Lilliedahl, J., & Rapp, S. (2019). The status of aesthetic education in a revised centralized curriculum: a theory-based and content-oriented evaluation of the Swedish curriculum reform Gyll. *Nordic Journal of Studies in Educational Policy*, 5(1), 43-53.
- Liu, M. (2020). Aesthetic Education and Cultivation of Innovative Talents Based on Aesthetic Needs. TWP Series in Education, *Sport Sciences and Physiology*, 1, 54-58.
- Liu, Y. (2020). Study on the Knowledge Map of Aesthetic Education in Chinese Universities in Recent Ten Years: Quantitative Analysis of Citespace Literature Based on CNKI. *EBIMCS 2020: 2020 3rd International Conference on E-Business, Information Management and Computer Science*.
- Lv, J. (2017). The Infiltration of Aesthetic Education in College Physical Education. *Art Education*, 44(2), 46-50.
- Muzyka, O., Lopatiuk, Y., Belinska, T., Belozerskaya, A., & Shvets, I. (2021). Modern aesthetic education and its further directions. *Linguistics and Culture Review*, 5(S4), 12-21.
- Oppenheim, A. N. (2000). *Questionnaire design, interviewing and attitude measurement*. Bloomsbury Publishing.
- Ren, D. (2021). The Particularity of Aesthetic Education Practice in Higher Education Stage. In *2021 2nd International Conference on Mental Health and Humanities Education (ICMHHE 2021)* (pp. 78-81). Atlantis Press.
- Ross, M., Randor, H., Mitchell, S., & Bierton, C. (1993). *Assessing achievement in the arts*. Philadelphia: Open University Press.
- Saunders, M., Lewis, P. & Thornhill, A. (2009). *Research Methods for Business students* (5th ed.). Essex: Pearson Education Limited
- Sawyer, W. (2008). The national curriculum and enabling creativity. *English in Australia*, 43(3) pp.57-67.
- Sekaran, U., & Bougie, R. (2016). *Research methods for business: A skill building approach*. John Wiley & sons.
- Shi, Y. (2018). The Influence of Aesthetic Education on the Quality Education of Science and Technology University Students. In *2018 2nd International Conference on Education Science and Economic Management (ICSEM 2018)*.
- Smith, R. A., & Simpson, A. (Eds.). (1991). *Aesthetics and arts education*. Champaign, Ill.: University of Illinois Press.

- Tao, J. , & Liu, Y. . (2017). Research on the Reform of Moral Education (Aesthetic Education) in Colleges based on Campus Culture Construction. *4th International Conference on Education, Management, Arts, Economics and Social Science (ICEMAESS 2017)*.
- Wan, Z., Jun, L., Tong, Z., Xiao, H., Min, S., & Min, Y.J. (2018). Aesthetic education integrated with professional courses in universities and colleges. *Education of Chinese Medicine, 01*.
- Wang, D. M., & Liu, J. B. (2018). Analysis on Fusion Path of Ideological and Political Education with Aesthetic Education in Universities. *Journal of Intelligent Systems, 31*(1), 466-476.
- Wang, J.K, & Yu, M. (2018). A study on the relationship between accumulating aesthetic experience and improving aesthetic interest. *Journal of Guangxi University for Nationalities (Philosophy and Social Science Edition)*, (12): 140.
- Williams, S. (1996). Pearson's correlation coefficient. *The New Zealand medical journal, 109*(1015), 38-38.
- Xin, J. (2020). Development Status of College Aesthetic Education and Corresponding Teaching Strategies from the Perspective of New Media. *In E3S Web of Conferences* (Vol. 179, p. 02094). E3S Web of Conferences.
- Xue, B. (2019). Construction of Aesthetic Education System in Universities from the Perspective of General Education. *IETI Transactions on Social Sciences and Humanities, 5*, 149-154.
- Zhang, Y., & Li, W. (2017). The impact of incorporating aesthetics into engineering education on students' creativity and innovation skills. *Journal of Engineering Education, 106*(2), 267-283.
- Zhao, L. L. & Wang, H. (2010). *An Empirical Study on Aesthetic Psychology of Chinese Citizens*. Beijing: Peking University Press.