Exploration and Research on the Construction and Management Mode of Design Art Laboratories

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ABSTRACT

Under the new situation, to meet the requirements of educational reform of design art, not only mathematics, physics, chemistry and other engineering professions need laboratory, but design art also needs laboratory with distinctive features to cultivate more practical design art talents. Design art laboratories should be constructed with modern design works and excellent art works, distinguishing it from other science and engineering laboratories with its unique artistic atmosphere. It is also necessary to adopt advanced scientific management mode, strengthen the construction of design art teacher team to make the best use of design art laboratories, and actively explore and study the appropriate construction and management mode of design art laboratories in colleges and universities.

Key words: Design art, laboratory, construction, management mode, research.

CURRENT STATUS OF THE MANAGEMENT OF DESIGN ART LABORATORIES

At present, colleges and universities have gradually attached importance to the specialized construction of design art laboratories. However, because of the lack of attention on the management of design art laboratories, design art laboratories are often useless. The functions and equipment of design art laboratories are not complete. Construction planning and positioning, resources allocation, the experimental teaching reform and the quality of management personnel should be improved. And the pursuit of the design art laboratories management “large and comprehensive”, results in the waste and duplication of human, money and materials.

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Besides, the team of managers and teachers of design art laboratories are not stable. Management work is still incorrectly regarded as the auxiliary work of teaching, so teachers of higher vocational titles do not want to engage in the management of design art laboratories, while administrative teachers need to be further improved in the title, education and quality. At the same time, wages and job evaluation are not equal between administrative teachers and teaching teachers, which are unfair. Managers of design art laboratories are often divided into design art experimental teachers and general managers. Design art experimental teachers are responsible for the theoretical class and experimental class, they are passive without lab assistants, while general managers are only responsible for the daily maintenance and repair of equipment and instruments, to assist in the preparation of design art experimental class, and they do not have a high educational level. Neither design art experimental teachers nor general managers have a good command of new experimental equipment, new knowledge and new technologies of design art. If the quality of design art experimental teaching cannot be guaranteed, it is difficult to cultivate the design art experimental talents to meet the needs of economic and social development and market economy.

EXPLORATION AND RESEARCH ON THE CONSTRUCTION OF DESIGN ART LABORATORIES

Function Division of Design Art Laboratories

According to the characteristics and requirements of domestic colleges and universities, the requirements for specific declaration of construction should be put forward to the leaders of colleges and universities before design art laboratories are constructed. After approval, the design art experimental center will be set up, and then the relevant laboratory will be set up. In order to meet the requirements of the laboratory with distinctive artistic features, a number of sub studios will be set up for functional division and three levels of management mechanism will be formed, such as the industrial design laboratory which takes man-machine and product molding as the main studio contents, the comprehensive design laboratory which takes material color and computer software technology as the main studio contents, the graphic design laboratory which takes photography art, printing art and book binding art as the main studios content, the textile and garment laboratory which takes knitting art, shuttle weaving art and spray painting art as the main studio contents. A number of design art studios should be set flexibly according to the actual needs of colleges and universities and operating funds. Besides, design art laboratories should be systematic and advanced.
Equipment and Site Planning of Design Art Laboratories

In the construction of design art laboratories, the funds and the actual needs must be taken into account so as to choose the appropriate equipment and appropriate place for the design art laboratories. The rational use of funds and sites is more important than the pursuit of big site and complete equipment. The purpose of equipment and instruments of design art laboratories is to meet the needs of students in curriculum design and creative conversion process. Site planning and arrangement should consider equipment installation and placement, ensure the installation convenient and safe, and use scientific and rational, at the same time comply with the design process, leaving enough space for students to operate, so that the equipment of design art laboratories can play its full role to avoid the shortage or inactivity of experiment equipment. The experimental courses and the specialized basic courses of design art major need special laboratories for operation, experiment, practice and training. For specialized basic courses such as design sketch, it is necessary to strengthen the construction of teaching space. For specialized basic courses such as design quick sketch, internship base can be established through school-enterprise cooperation mode. For specialized courses such as animation and photography, the construction investment of design art laboratories is relatively large, so the level of equipment and teachers should be improved correspondingly. All in all, the planning and construction of design art laboratories should be appropriately changed according to the teaching characteristics. It is necessary to arrange the investment of the design art laboratory reasonably, make full use of every penny.

EXPLORATION AND RESEARCH ON THE MANAGEMENT OF DESIGN ART LABORATORIES

Taking Students as the Center

The management of design art laboratories must maximize the use of design art laboratories. Given that students about to graduate use the equipment and instruments of design art laboratories a lot, design art laboratories must have someone to manage and implement the relevant system to deal with the frequent, sudden and temporary use of design art teachers and students. There are new requirements for the management of design art laboratories in the new period. The management of design art laboratories should be student-centered, taking full account of the needs of design art students. The use of equipment and instruments in the design art laboratories should be open to students, and is coordinated and arranged by experimental center of design art according to the requirements of the design art courses. The design art students often have sudden and accidental ideas, so the use of design art laboratory should be based on the actual situation. It can incline to
the innovative experiment of graduation design, and take into account the
frequency of the comprehensive, temporary and sudden use of design art
students. In design art laboratories, students must complete four key design art
experiment teaching forms: operation, experiment, practice and training, which completely separate from the purpose, content and method of the
theoretical course. According to the requirements and purposes of design art
experimental teaching, we must scientifically arrange experimental content,
and select experimental projects in a coordinated way, to form the main line of
design art experimental teaching through scientific system management.

Introducing incentives
Referring to the relevant management modes of comprehensive
universities and other engineering colleges, design art laboratories must
implement relevant management system and introduce incentives and
strengthen the construction of innovative teaching staff, to build a teaching
team who are willing to devote themselves to experimental teaching. It is
necessary to strengthen the education and training of dedication, teaching
philosophy, practical experience and quality of scientific research, attract
more teachers with good operation ability to participate in the experimental
teaching of design art and improve the quality and level of experimental
teaching of design art. At the same time, general managers of design art
laboratories are encouraged to read master’s degree and doctor’s degree, which
will not only improve the educational level of the management personnel of
design art laboratories, but also promote the updating of professional
knowledge. Especially for the four basic contents of design of art laboratories:
Completing three-dimensional entity, understanding the material properties,
researching reports, training two-dimensional works and other experimental
teaching, students need transform their original design concept into a realistic
model under the guidance of teachers through the platform of design art
laboratories, combining with textbook theory to broaden the design art ideas.
Through the design art experiment teaching, students can understand the
demands of market and consumers for design art works, be familiar with the
design art production links they will work on after graduation, and their
performance skills and creative ability can also be improved.

Innovating management model
The management of design art laboratories should actively organically
integrate with management concept of other colleges and universities and
foreign advanced design art laboratories, strive forward to the digital,
networked, informational high-end design art laboratory management, and
keep pace with the reform of education and teaching to realize the resources
sharing of design art laboratories. To reduce the operating costs of design art laboratory management, open management can be carried out around the clock. Besides, the information network system of design art laboratory management can be established to realize the purpose of resources rational use and resources sharing of design art laboratories. For example, making overall arrangement and unified management of experimental techniques, courses and environment of design art, rationally allocating the teacher resources of design art laboratories, making the experimental items, contents and time all electronic menu, realizing autonomous processing, will make students be able to refer to relevant experimental information in campus network, and thus the needs of personalized learning of art students will be satisfied.

CONCLUSION

After the exploration and research on the construction significance, function division and management mode of design art laboratories, it is concluded that improving the construction level and management mode of design art laboratories can help to foster the creative thinking and practical ability of design art students. It also shows the overall educational level of colleges and universities and meets the social demand for design art talents. The improvement of the construction level and management mode of design art laboratories fully embodies the teaching level of design art and the quality of design art talent training, which make the teaching and research of design art in colleges and universities stride to a new stage, and thus provide more outstanding design art talents for economic and social development.

REFERENCES

