The Construction of Network Teaching System for Nursing Specialty Based on Computer Technology

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Abstract. Internet + plays an important role in the process of social change and human life. It is a booster for a country to move towards wisdom, and it has risen to the strategic level of national action. With the continuous expansion of China's medical scale, more and more nursing practitioners, the number of registered nurses per thousand populations is also increasing. The national plan for the development of nursing service (2016-2020) proposes to speed up the development of nursing service and closely link the connotation of nursing service with people's health needs. Strengthen the construction of nursing informatization, with the help of the rapid development of information technologies such as big data, cloud computing, Internet of things and mobile communication, vigorously promote the construction of nursing informatization, and strengthen the information system of nursing application such as mobile medical equipment.

Keywords: Computer Technology, Nursing Profession, Network Teaching

1. Introduction

National education career planning pointed out that to supply the innovation education mode, expand the new education form, education informationization to promote education modernization, actively promote the development of information technology and the integration of education innovation, and strive to build network, digital, personalization, lifelong education system, the formation of everyone, everywhere to learn, to learn all the time learning environment. We want the structural reform of education as the main line, actively develop "Internet + education", making online education quality standards and digital education resources, promote the establishment of digital education resource access and regulatory mechanism, improve the mechanism of the digital education resources intellectual property protection, to establish "the Internet + education" standardized management, development of the Internet education service new formats[1-4]. This is the first time that "Internet plus education" has been included in a government document at the national level, which shows that the...
country is paying more and more attention to it.

2. Computer technology combined with the development of nursing education

With the continuous expansion of China's medical scale, more and more nursing practitioners, the number of registered nurses per thousand populations is also increasing. National nursing career development plan (2016-2020) put forward: to speed up the development of nursing career, will be nursing service connotation closely up with the crowd health needs, to "demand as the guidance, job competence as the core", and improve nursing quality and service ability, with the help of big data, cloud computing, Internet of things, and the rapid development of information technology such as mobile communication, promote the building of nursing information. This requires that we medical colleges and universities should not be one-sided in the pursuit of enrollment, but ignore the improvement of the quality and ability of nurses. Nursing information is the use of modern network technology, computer technology, and communication technology, the nursing work of information processing and application of the general term[5]. With the rise of nursing informatics research and the tide of medical and health informatization, nursing informatization has become an inevitable choice for the development of modern nursing career, such as barcode recognition technology, touch screen and voice recognition technology combined with mobile devices will be gradually applied in nursing work. Table 1 and table 2 below are the different designs of network teaching courses for nursing majors:

|                  | Teachers                                           | Students                                           |
|------------------|----------------------------------------------------|----------------------------------------------------|
| Before class     | I made micro-lessons, designed self-study task lists, arranged tasks for independent learning | I made visible skills connection, gave feedback on the completion of tasks, and answered questions |
| In class         | Expand relevant skills and knowledge, organize students to contact, correct wrong actions | independently explore and cooperate with others    |
| After class      | Skills consolidation, evaluation innovation, teaching evaluation, adjustment of learning strategies | Development of teaching plan related knowledge consolidation, independent inquiry, cooperation and communication, teaching evaluation |

This kind of indoctrinate teaching method makes the students lack the spirit of independent thinking and questioning, and what they can cultivate is only nerd like graduates, who are not qualified for the jobs in the hospital career, let alone innovative development.

Hospital nursing work has entered the information age, if our school education is still stuck in the traditional way of indoctrination teaching, even if the training of more nursing graduates cannot meet the hospital's employment needs, students are difficult to achieve their own value. From the micro point of view of technology, the quality of talent training depends on the correct teaching method. The connotation development of nursing education should focus on learners, pay attention to ability
cultivation, realize learners' independent learning, personalized learning and lifelong learning, and promote the all-round and innovative development of people. In view of this, the application of Internet + education informatization to nursing professional education is a good way of innovative education.

**Table 2.** Design of traditional teaching process

|               | Teachers                      | Students                     |
|---------------|------------------------------|------------------------------|
| Before class  | Prepare lesson plans          | Complete the plans           |
| In class      | Brief introduction in class, assign tasks to listen to the class | Complete the exercises |
| After class   | complete the teaching plan    | Complete the technical assessment |

From table 1 and table 2 can be found in the comparison of: because of the influence of traditional ideas and the system of education for a long time, people think that nursing education process is educators teach students the knowledge, training, skills and processes, the formation of moral character in the process, the learner in a passive accept knowledge and transformation of the object position, plays an ignorant and less know or shallow know so wait to smell the first teacher to teach, the role of the implant and teach.

**3. Development approaches of nursing education informatization**

The combination of Internet + education informatization and nursing education is to improve the quality of nursing education and realize the transformation and upgrading of the connotative development of nursing specialty. To realize the effective combination of Internet + education informatization and nursing specialty, we need to make preparations from school, teachers, courses and students.

**3.1. School level**

First of all, we should further improve the hardware construction of the educational information infrastructure of the school. With the popularization of the "broadband network school-school pass", the full coverage of the broadband network in colleges and universities has been basically realized. However, due to the limited economic situation, it is difficult for students to popularize everyone has a computer. With the rapid development of smart phones and the decline in the price of smart phones, almost every student has a smart phone, which can become a teaching terminal. Therefore, to strengthen the construction of "wireless campus", to provide free traffic for students to obtain information resources and to realize the full coverage of campus wireless network has become a pressing matter of the moment for schools to realize education informatization. In this way, students have changed from passive learning to active learning as shown in table 3 below:

**Table 3.** Assessment results and comparison of nursing majors based on computer technology
Such as the table 3, to perfect the education resources public service platform, provide students with information on the platform of teaching resources, the construction of information management platform based on the unified data standard, so as to realize all kinds of teachers and students teaching and learning with data collection and integration management, eventually form to support the education teaching and management education cloud service system[6].

3.2. Teacher level

We should strengthen the construction of information resources for teachers, strengthen the construction of information talents for vocational education, expand the application capacity of information, and fully promote the integration of information technology with education and teaching. The ministry of education has also successively held the national vocational college informationization teaching competition, which promoted the construction through competition and improved the awareness and ability of teachers in the application of informationization.

3.3. Curriculum construction

The school should provide conditions for teachers or cooperate with qualified educational enterprises to build a high-quality online nursing course and resource pool that organically combines curriculum teaching with clinical nursing posts in hospitals. In the process of building curriculum resources, some students with strong initiative can be absorbed to participate in and give full play to students' subjectivity. In the course construction process, mobile education application software is indispensable. We can learn from some mature free software. To encourage teachers to high quality nursing education resource sharing, actively carry out "quality resource classes", comprehensive promotion "everyone on the network learning space", the traditional class force-feeding teaching change into everywhere to learn, to learn all the time online the organic combination of ubiquitous learning new network model, actively promote education service mode and change the way of learning.

3.4. Student level

To improve students' information technology application ability, can pass to open the corresponding information to improve the students' information literacy education curriculum and the access to and the ability to use information, through the development of guiding significance to the second classroom activities, such as to guide students to use lm mobile APP, nursing in school can make students experience the hospital mobile medical care procedure, promote the improvement of students
take the initiative to seek information skills and innovation.

4. Conclusion

The national education development plan proposes to promote the modernization of education with the information technology of education, and the ultimate value judgment of the modernization of education is the liberation of human beings and the leap of human beings' subjectivity, as well as the innovation and development of human beings. Internet + education informatization is an irreversible trend. Applied in nursing profession informationization teaching process, to provide flexible according to the individual needs of different students differences of online and offline teaching arrangement must be based on sustainable development of the students, improve student's quality and ability.

References

[1] Jiaxin Q, Houjun L, Sulin W. Innovative Teaching System Construction of Omnidirectional Layered Programming Courses for Computer Specialty Based on the Concept of New Engineering[J]. journal of heilongjiang university of technology(comprehensive edition), 2019.

[2] GE Wei-lun. System Construction of the Computer Network Teaching Content Based on Specialty' s Characteristics[J]. Journal of Anhui Vocational & Technical College, 2014.

[3] Zhang Xiujie, Lu Fengwei. Construction and Practice of Curriculum System Construction for Mobile Communication Technology Specialty Based on "Result Orientation & Action Learning"[J]. computer & telecommunication, 2017.

[4] MIAO Yong, WANG Jian, WU Zhen-hui. The Construction of Practice Teaching System Based on Software Technology Specialty[J]. computer knowledge & technology, 2011.

[5] Runsheng Z, Xiaofeng H E. Construction of practical teaching system of environmental engineering technology specialty based on Shenzhen International Low Carbon City[J]. journal of shenzhen institute of information technology, 2015.

[6] Yi Z. Concept and Practice on the Construction of Specialty for Computer Network Technology[J]. journal of guangxi radio and tv university, 2006.