

Chapter III. TRAINING PROGRAM

Article 16. Structure of doctoral training program

1. The doctoral training program of Vietnam National University, Hanoi includes a minimum of 90 credits for PhD candidates with a master's degree and 120 credits for who have a university degree, including the following parts:

a) Part 1: Supplementary courses (for PhD candidates without a master's degree)

- Supplementary courses are courses that help PhD students have enough knowledge and professional qualifications to perform the tasks of a PhD;
- PhD students who do not have a master's degree must accumulate at least 30 credits of compulsory and elective additional courses. Supplementary courses include courses of the corresponding master's program, except for foreign language courses and thesis.

b) Part 2: Courses in the doctoral training program with a maximum total of 16 credits.

The courses of the doctoral training program help PhD students improve their theoretical knowledge, research methods and ability to apply research methods. Modules of the doctoral training program include compulsory and elective courses, in which the compulsory courses are basic courses, related to core knowledge of high-level fundamental methods of the field and major; elective courses have in-depth content suitable for the research topic of the doctoral student or support training in specialized and interdisciplinary research methods. PhD students choosing elective courses must have the consent of the main supervisor or independent supervisor;

- The main supervisor or independent supervisor may request the head of the training unit to decide to replace some courses in the training program with other courses, necessary for the doctoral student's thesis, within a maximum period of 06 months from the date of the decision to recognize the doctoral student.

c) Part 3: Doctoral topics, overview essays and scientific research with a maximum total of 10 credits, including:

- Doctoral topics require PhD students to improve their research capacity and self-study to update new knowledge directly related to the thesis topic.
- The essay about the research situation and issues related to the thesis topic requires the doctoral student to demonstrate the ability to analyze and evaluate the content, methods, and main results of existing research works by domestic and foreign authors closely related to the thesis topic, raise existing problems, and point out the issues that the thesis needs to focus on researching and solving;
- Scientific research (not counting credits in the training program) is a mandatory requirement in the training process of graduate students. Training unit responsible for creating material conditions for graduate students to conduct required research for the thesis. The PhD students

must ensure honesty, accuracy, novelty of the results of their scientific research, compliance with the Vietnamese and international intellectual property regulations.

d) Part 4: Participation in professional activities, teaching assistant and training support (not counting credits in the training program)

- Participating in professional activities, teaching assistant and training support is mandatory for PhD students. The professional unit must schedule for professional activities and schedules for each PhD student to report and present results of professional activities at seminars/workshops, which are organized by specialized units in each academic year. PhD students must fully participate in scientific seminars or conferences, workshops organized by the unit.

- Head of the training unit is responsible for arranging for the doctoral student to participate in the following activities during the thesis process: Teaching assistant at undergraduate and master's level or guiding undergraduate and graduate students in practice and internship; or guiding university graduation theses or participating in teaching and teaching assistant in short-term training courses organized by the unit. All of the above activities must be confirmed with evidence from the training unit or coordinating training unit.

d) Part 5: Doctoral thesis (hereinafter referred to as the thesis)

The thesis is a scientific research work of a doctoral student, which contains new contributions in theory and practice in the specialized field - valuable in developing, increasing scientific knowledge and completely solving problems within the research tasks of the thesis, the arguments and research results that need to be defended. The thesis is counted as at least 80% of the training program duration.

2. International joint doctoral training program

a) The international joint doctoral training program with degrees granted by Vietnam National University, Hanoi is designed as the doctoral training program of Vietnam National University, Hanoi as prescribed in Clause 1 of this Article;

b) The international joint doctoral training program jointly awarded by Vietnam National University, Hanoi and foreign partners is designed according to the cooperation agreement between the training unit of Vietnam National University, Hanoi and the foreign partner but is consistent with the structure and content of the doctoral training program prescribed by Vietnam National University, Hanoi in Clause 1 of this Article.

Article 17. Input standards of training programs

1. The input standards (or entry requirements) of a training program are the minimum requirements for qualifications, abilities, and experience that learner need to have to attend the training program.

2. The training program's input standards must clearly define the minimum requirements for qualifications, competencies, and experience appropriate to each level,

industry/specialization, and training orientation that learners need to meet in order to successfully study and complete the training program.

3. Input standards for the doctoral training program: Students must have graduated from a master's degree or a specialized training program with a level 7 qualification in a relevant field or graduated from a regular university with a good grade (or equivalent or higher) in a relevant field; have a level 4 foreign language proficiency according to the Framework of Foreign language proficiency level 6 for Vietnam (or equivalent level or higher); have research capacity and experience.

Article 18. Expected learning outcomes of training programs

1. Expected learning outcomes stipulate the quality of the thesis, knowledge content, skills, qualities, and abilities of the doctoral student and other specific requirements for each training sector/major.

2. Developing and promulgating expected learning outcomes is a mandatory requirement when building a training program to publicize to society and students the standards of equipped quality, capacity, knowledge, and skills and use that as a basis for building and developing training programs, innovating training management, innovating teaching and learning methods, testing and evaluation methods; creating opportunities and enhancing cooperation and connection in training and using human resources between training units and employers.

3. Expected learning outcomes include the following contents:

a) The quality requirements of the thesis are demonstrated through the discovery and resolution of new problems, new contributions to science and practice. The doctoral student publishes the research results of the thesis in a specialized scientific journal as the main author (first name of the author and contact author) with a total score of 2.0 or higher calculated according to the maximum score prescribed by the State Council of Professors for each type of work (as the main author, no points are divided when there are co-authors). International publications must be written in a foreign language, articles published in domestic specialized scientific journals must be on the list prescribed by the State Council of Professors with a minimum score of 0.75 points and must meet one of the following criteria:

- Have at least 01 article published in a scientific journal listed in the Web of Science or Scopus (hereinafter referred to as the WoS/Scopus);

- Have 01 granted invention/utility solution certificate and at least 01 international report article in one of the following publications: (i) reference book chapter published by reputable international publishers, or (ii) monograph published by reputable international publishers, or (iii) report in the proceedings of an international conference with peer review, with ISBN code, or (iv) article published in a reputable foreign scientific journal with peer review, with ISSN code;

- Have at least 02 international reports in one of the following publications: (i) reference book chapters published by reputable international publishers, or (ii) monographs published by

reputable international publishers, (iii) reports in peer-reviewed international conference proceedings with ISBN code, or (iv) articles published in prestigious foreign peer-reviewed scientific journals with ISSN code.

b) Requirements for professional knowledge;

c) Requirements on research capacity;

d) Skill requirements:

- Professional skills;

- Supporting skills;

d) Requirements on autonomy and responsibility:

- Citizen responsibility;

- Responsibility, ethics, professional awareness and style, service attitude;

e) Working position of graduate students after graduation;

g) Ability to study and improve qualifications after graduation;

h) Programs and documents of prestigious international doctoral training institutions that the training unit refers to.

4. The head of the training unit shall develop detailed and quantitative expected learning outcomes for each training program, organize extensive seminars to receive comments from stakeholders such as managers, scientists, lecturers, employers, alumni, etc., complete and publish the expected learning outcomes of each training program, but not lower than the requirements specified in this Regulation.