THE UNIVERSITY OF DA NANG
UNIVERSITY OF SCIENCE AND EDUCATION

SOCIALIST REPUBLIC OF VIETNAM
Independence – Freedom - Happiness

PROGRAMME LEARNING OUTCOMES

A. GERENAL INFORMATION

1.	Name of training program (Vietnamese):	Cử nhân Sư phạm Hoá học
2.	Name of traning program (English):	Bachelor in Chemistry Teacher Education
3.	Level of training:	Undergraduate
4.	Training code:	7140212
5.	Candidates of admission:	High school graduate or equivalent according to current regulations.
6.	Training time:	4 years
7.	Form of training:	Full - time
8.	Required credits:	130 credits
9.	GPA out of:	4
10.	Degree:	Bachelor degree

B. OBJECTIVES, OUTCOME STANDARD

I. Program Objectives (POs)

1. General objectives

To train bachelors in Chemistry teacher education with professional expertise and research experience to teach, work and do management task at educational, research, or enterprise institutions in fields related to chemistry, with ability to start a business, to adapt to a chang in working environment, and to have life-long learning skill and qualities, and ethics of a teacher.

2. Specific objectives

The University of Danang – University of Science and Education trains Chemistry Teacher Education bachelors, who:

- PO1: Have knowledge of political science, natural science, professional knowledge of chemistry, and educational science for professional activities and life-long learning.

- PO2: Can organize teaching, education, and scientific research activities in the fields of Chemistry and Natural Sciences.

- PO3: Have soft skills, creative thinking, inspiring ability, and adaptability to a change in working environment.

- PO4: Have the qualities and ethics of a teacher, sense of community serving, and entrepreneurship spirit.

II. Program Learning Outcomes (PLOs)

Students who graduate from the Bachelor program in Chemistry Teacher Education of University of Science and Education - The University of Danang be able to:

- **PLO1:** Apply knowledge of political science, mathematics, natural science, and educational science to professional activities.
  - PI 1.1: Use basic knowledge of political science in career and life.
  - PI 1.2. Apply basic knowledge of mathematics and natural sciences in explaining career-related problems.
  - PI 1.3: Apply the laws and theorems of chemistry to explain theoretical and experimental problems related to the field of chemistry and natural sciences.
- **PLO2:** Organize teaching and educational activities in direction of developing learners' quality and competency.
  - PI 2.1: Analyse and develop the high school chemistry curriculum in the 2018 high school curriculum.
  - PI 2.2. Develop plans to organize teaching and educational activities in chemistry in direction of developing learners' quality and competency.
  - PI 2.3: Organize the teaching process using active teaching methods.
  - PI 2.4: Flexibly use teaching facilities, testing, and assessing methods in the teaching process of chemistry.
- **PLO3:** Apply information technology and foreign languages in the field of chemistry.
  - PI 3.1: Apply basic information technology skills as prescribed in Circular 03/2014/TT-BTTTT in teaching, scientific research, and professional activities.
  - PI 3.2: Use other complementary softwares for analysis, data processing, virtual experiment design, online teaching, and professional activities.

- PI 3.3. Use foreign languages at the minimum of level 3 capacity according to the 6-level Foreign Language Competency Framework for Vietnam in teaching, scientific research and professional activities.

- **PLO4:** Develop a positive educational environment.
  - PI 4.1: Organize class activities in high school.
  - PI 4.2: Counsel school psychology for students.
  - PI 4.3. Solve pedagogical behavior problems.
- **PLO5:** Carry out scientific research in education, basic science in the fields of chemistry and natural science.
  - PI 5.1: Proficiently perform basic experimental techniques in the field of chemistry and operate common equipment in chemical research.
  - PI 5.2: Analyze specialized research data in a scientific and reasonable way.
  - PI 5.3: Design research projects in the field of educational science, and basic science of Chemistry.
- **PLO6:** Demonstrate critical thinking, creative thinking, and complex problem-solving abilities.
  - PI 6.1: Provide persuasive arguments to defend personal opinions/ views.
  - PI 6.2: Discover problems in learning and life.
  - PI **6.**3. Solve multi-task activities that requires the application of theoretical knowledge into practice.
- **PLO7:** Develop communication and teamwork skills.
  - PI 7.1: Flexibly use verbal and non-verbal means in presentations and reports.
  - PI 7.2: Show civilized communication and behavior in accordance with school regulations.
  - PI 7.3: Organize group work in a scientific and effective way.
- **PLO8:** Have moral behavior, suitable to to the teacher's qualities and ethics; participate in community service and form startup ideas.
  - PI 8.1: Develop ethics and behavior of teachers.
  - PI 8.2: Participate in projects and activities for the community.
  - PI 8.3: Develop the entrepreneurial spirit in life.