

	<b>Тракийски университет – Стара Загора</b> <b>Педагогически факултет</b>		Издание: 1.1
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## QUALIFICATION CHARACTERISTICS OF THE SPECIALTY “Pedagogy of information technology education”

1. Qualifications and competencies
2. General and special training
3. General and special skills
4. Opportunities for realization

The instruction of students in the specialty "Pedagogy of Information Technology Education" aims to prepare teachers with the Bachelor's educational qualification degree.

The curriculum has been developed in accordance with the regulatory requirements for this specialty. It includes mandatory, elective and optional disciplines. A sufficient amount of practical training is provided.

The Bachelor's degree provides essential broad-based training in information technology, psychology, pedagogy, methodology and education management. Graduates have fundamental knowledge in the field of information technology and work with computer networks, operating systems, databases, computer graphics, object-oriented programming, data structures and algorithms, as well as basic mathematical instruction. In addition, they acquire the necessary knowledge for teachers in: psychology; pedagogy; ethics, methodology of education in computer science and information technology; school courses in information technology for compulsory, optional and elective training in primary, junior high school and high school course in computer science. With the elective courses students are prepared in more depth in their chosen field in computer science, information and communication technologies, pedagogy and application of information technology methodology in education. With the optional disciplines they can study specialized courses in the field of information technology, pedagogy, psychology, and philosophy, language learning and others. In the course of instruction they acquire additional skills and knowledge, such as: independent search and collection of necessary information in literature and the Internet, development, design and multimedia presentation of various projects, reports and messages, skills for presentation and self-presentation, good level of English in the field of the studied specialty.

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## I. QUALIFICATION AND COMPETENCIES

Upon completion of the bachelor's degree, specialists in the pedagogical field 1.3. "Pedagogy of teaching" with the qualification title "Teacher of Computer Science and Information Technology" should be able to:

- show in-depth knowledge of the basics of information processes, models and systems, modern computer technology, analysis and application of software and information technology in education;
- apply in practice the acquired knowledge in their profession;
- competently use and apply the latest multimedia technologies;
- competently use and apply fundamental knowledge in the field of computer science and information technology in various forms of educational process organization of computer science and information technology in both curricular and extracurricular activities;
- master and apply modern educational technologies.

## II. GENERAL AND SPECIAL TRAINING

The bachelor's programme "Pedagogy of information technology education" realizes a wide profile of knowledge, skills and competencies of the graduates.

### 2.1. Field and scope of knowledge:

Graduates of the "Bachelor's" educational qualification degree of the specialty "Pedagogy of information technology education" should have in-depth knowledge in the following fields:

- mathematical and logical fundamentals of computers
- computer systems and networks;
- basics of programming;
- information systems and databases
- technologies for processing textual, tabular, graphic information
- multimedia technologies
- school courses in computer science and information technology in high school
- general methodology of education in computer science and information technology
- special and specific methodology of education in computer science and information technology;
- basics of pedagogy;
- basics of psychology (age and psychological features and patterns, forms and levels of thinking in information technology education);
- basics of modern educational technologies.

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## **2.2. Field and scope of skills:**

- formation and development of professional competencies for adequate realization of the acquired knowledge and skills;
- formation of skills for fast and correct decision making;
- improving the skills for processing new information;
- skills for a scientific method to each student;
- skills for orientation and practical application of modern didactic technologies;
- skills for analyzing the psychological and pedagogical processes in school;
- skills for forecasting, planning and modelling of research activities in the field of information technology education methodology;
- skills for further self-learning and self-improvement.

## **2.3. Personal competencies of the Bachelor's degree graduates:**

- in-depth theoretical knowledge in the field of computer science and information technology;
- knowledge of theories, concepts, principles and patterns in the psychological development of the student;
- applying a creative approach, initiative and innovation in management

## **III. GENERAL AND SPECIAL SKILLS**

### **3.1. General skills of the Bachelor's degree graduates in the specialty:**

- ability to integrate knowledge and skills in professional practice;
- skills for using various methods and techniques for mastering complex learning content;
- skills to develop educational projects;
- skills to organize and conduct experimental and diagnostic activities in education, using innovative methods and tools;
  - showing a high degree of independence and orientation in the educational content, applying modern approaches and methods for its mastering;
  - skills to process and interpret specialized literature and information;
  - mastery of a rich conceptual apparatus and showing abilities for conceptual and abstract thinking;
    - skills to present clearly and adequately their own ideas, formulations of problems and possible solutions, using a wide range of techniques and approaches;
    - ability to fully communicate in English

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### ***3.2. Special skills of the Bachelor's degree graduates in the specialty:***

- skills to use modern educational technologies in information technology teaching;
- skills to apply the acquired knowledge and skills in new, unfamiliar situations;
- ability to form and express their own opinion on the problems of education in information technology (learning content, principles of structuring the learning content, curricula, teaching methods, assessment methods, etc.);
- ability to improve their own activities in the educational process of information technology.

## **IV. OPPORTUNITIES FOR REALIZATION**

The successful Bachelor's degree graduates are awarded the professional qualification "Teacher of Information Technology".

The successful Bachelor's degree graduates in the specialty of "Pedagogy of Information Technology Education" can be realized as:

- teacher, senior teacher and mentor teacher of information technology in general education secondary schools from 5th to 12th grade and in vocational high schools
- head of computer room
- specialists in the field of information technology in various educational institutions, in governmental and non-governmental organizations;

The fundamental training in computer science, information technology and pedagogy enables the graduates to work as teachers, educators and head teachers in Bulgarian schools, as heads of computer rooms in various educational institutions, and after completing a master's degree they have the opportunity to continue their education to obtain the scientific degree "Doctor" and to be realized as lecturers and researchers in universities and scientific institutes.

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