Attachment no. 2

Tab. 1. Required knowledge of subjects and skills constituting the grounds for qualification in case of candidates for full-time and part-time MA/MSc studies

Major	Requirements
agribusiness	An individual who has completed BA/BSc studies, was awarded the professional title of engineer and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • in the field of fundamental subjects (mathematics, basics of economics) necessary to connect agricultural knowledge with management skills; • general knowledge concerning agricultural production; • elementary knowledge of law, economy and management connected to running a business activity; • knowledge allowing the student to: formulate the issue and engineering task in a correct manner, apply suitable measures aimed at task implementation, present the solution to the issue in a form of a public presentation or a written study, initiate a substantive discussion devoted to vegetation protection.
landscape architecture	An individual who has completed BA/BSc studies, was awarded the professional title of engineer and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • in the field of mathematics, plant biology and descriptive geometry, knowledge necessary for understanding and describing space, knowledge of the fundamental principles concerning perspective, proportion, drawing and sculpture composition as well as space mapping; • as regards establishing design guidelines based on analysing conclusions, ability to apply the fundamental principles of design and landscape architecture objects serving various functions; • knowledge concerning the systematics and nomenclature of plants, ability to characterize plants in terms of their basic construction features, habitat requirements and potential applications in the greenery design, knowledge of the principles concerning green inventory, knowledge of selected specialist issues connected to maintaining greenery; • knowledge necessary to prepare simplified design documentation observing formal and legal requirements and ability to present it in a form of a drawing and in descriptive form, fundamental knowledge in the field of techniques used for visualizing the concepts and projects of landscape architecture applying the principles of descriptive geometry and computer techniques, ability to use freehand drawing for the purposes of spatial analysis and provide information concerning the landscape; • in the field of basic nature-related laws and activities connected to the environment, shaping and protection of environment, fundamental knowledge of issues connected to the composition and protection of the cultural landscape; • ability to recognize urban and rural layouts, the components of such layouts characteristic for various historical periods, knowledge of old and contemporary trends and styles in horticulture, understanding of the cultural and philosophical conditioning of particular styles; • basic knowledge as regards forms of protection in case of historic monuments

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	present in the landscape and the methods used as a part of the protection process; • knowledge of the basic materials used for construction and their application in construction and landscape architecture, knowledge of the market economy mechanisms and the basics of running a business activity.
Bioinformatics	An individual who has completed BA/BSc studies, was awarded the professional title of BA/BSc or engineer and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • in the field of fundamental sciences (physics, biology, chemistry) at a level allowing students to use their knowledge in solving issues concerning bioinformatics; • in the field of biochemistry, botany and zoology and environmental issues, this includes biometeorology, environmental biomonitoring, biological indexes and analytical techniques; • in the field of advanced statistics and higher mathematics; • in the field of computer science, in particular the basics of programming, establishing databases, knowledge of computational algorithms; • in the field of parameter estimation, statistical sets, hypothesis testing, basics of statistical data modelling; • in the field of molecular biology, genetics, genomics and proteomics, cell biology, experimental planning, genome research using molecular genetics methods, microscopic techniques.
Biology	An individual who has completed BA/BSc studies, was awarded the professional title of BA/BSc or graduated from long-cycle MA/MSc studies and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • in the field of fundamental sciences (chemistry, biochemistry, physics) to the extent allowing students to understand nature-related issues; • basic mathematics/mathematical statistics adjusted to the needs of natural sciences; • in the field of systematic botany and plant morphology, zoology of invertebrates and vertebrates, general genetics and cell biology and histology, as well as molecular biology applicable in numerous disciplines of biology; • in the field of biology of living organisms development; • in the field of ecology and environmental protection, especially when it comes to determining the mutual correlations between organisms and their environment; • in the field of plant, animal and human anatomy and physiology; • in the field of microbiology, with particular focus on the role of microorganisms in the environment and the impact on plant, animal and human health; • in the field of immunology, with particular emphasis on the biological role of the biological immune system of living organisms; • in the field of evolutionism, taking into account the factors and mechanisms of evolution and modern theories of evolution.
human biology	An individual who has completed BA/BSc studies, was awarded the professional title of BA/BSc or graduated from long-cycle MA/MSc studies obtaining arithmetical average based on all subject grades at BA/BSc studies (long-cycle MA/MSc studies) not lower than 3.5 and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • fundamental sciences (chemistry, biochemistry, physics) to the extent allowing students to understand nature-related issues;

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	• basics of mathematics and/or mathematical statistics with particular focus on the needs of natural sciences • basic botany and zoology, genetics with particular focus on human genetics, molecular genetics and genomics as well as cell biology and histology; • knowledge the biology of living organisms development, with particular emphasis on humans; • regular human anatomy as well as animal and human physiology; • microbiology, with particular focus on influence of microorganisms on the living environment and human health; • immunology, with particular focus on biological and biochemical mechanisms constituting the grounds for immunity system in reference to factors that threaten the homeostasis of the organism; • evolutionism, bearing in mind the factors and mechanisms concerning evolution and contemporary theories devoted to evolution; • basics of ergonomics with particular focus on research trends in modern ergonomics.
biotechnology	An individual who has completed BA/BSc studies, was awarded the professional title of engineer and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • in the field of chemistry, mathematics, physics, biochemistry, cell biology and microbiology, adjusted to the needs of biotechnology; • as regards the possibility of using different organisms and enzymes to realize biotechnological processes and typical technologies for obtaining different bioproducts; • as regards techniques for controlling cellular metabolism; • ability to conduct basic analyzes applying chemical, biological and physical methods and techniques in the field of biotechnology; • knowledge concerning the use of basic unit operations, apparatus and devices used in biotechnological processes; • in the field of interpretation, presentation and documentation of the results of the experiment as well as the presentation and documentation of a project task
applied plant biotechnology	An individual who has completed BA/BSc studies, was awarded the professional title of BA/BSC or engineer and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • fundamental subjects (chemistry, physics, biochemistry); • subjects connected to plant construction, this includes construction at the cell level, plant physiology, genetics; • the environment and habitat of crops; • nutrition and protection of basic crop species against pests and the possibility of improving the quality of such species; • elementary knowledge of *in vitro* cultures, information technologies, databases, obtaining and processing information, basic economics and organization of work in a business.
construction	An individual who has completed BA/BSc studies, was awarded the professional title of engineer and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • selected issues of mathematics, physics and chemistry forming the grounds of subjects concerning construction theory and technology of building materials; • general mechanics, strength of materials, theoretical material models and

	principles of general structure design; • mechanics and analysis of bar structures in terms of statics, dynamics and stability; • knowledge of the standards and guidelines applied in case of the design of buildings and their elements; • knowledge of selected computer programs supporting the calculation and design of structures as well as the organization and technology of construction works; • norms and normative acts regulating work in the construction industry as well as the organization and principles of construction management; • construction law regulations; • principles of constructing and dimensioning elements of building structures - metal, reinforced concrete, composite, wooden and masonry; • principles of building structures foundation; Such an individual has the ability to: • perform a static analysis of statically determinate and indeterminate bar structures; • design selected elements and simple structures: metal, reinforced concrete, composite, wooden and masonry; • measure dimensions of basic construction elements, agricultural, water and communication-related objects.
geodesy and cartography	An individual who has completed BA/BSc studies, was awarded the professional title of engineer and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • in the field of fundamental subjects (mathematics, physics) necessary to understand the mathematical description of phenomena, application of mathematical methods and understanding of physical processes in nature and the use of the laws of nature in case of sciences devoted to Earth - especially geodesy and cartography; • in the field of methods of aligning geodetic observations to the extent enabling their application in various departments of geodesy and cartography; • the ability to use reference systems and coordinate systems applied in geodesy, geodynamics, satellite geodesy and astronomy; performing transformations between systems; making geodetic measurements in large areas; • obtaining, interpreting and using data obtained from geodetic documentation centres; • operation of electronic instruments when it comes to measurement, recording and data transmission onto/from a computer; organization and performance of works connected to detailed measurements in areas with different coverage and use; • performing measurements and basic geodetic works necessary for planning and implementation of investments; • application of modern methods concerning developing aerial and satellite images in order to obtain maps and their photo-interpretation with the use of modern IT tools; • in the field of establishing and maintaining a cadastre, performing basic activities in the process of real estate valuation; understanding the processes involved in the development of spatial development plans, performing geodetic works related to real estate management; • obtaining and updating SIP data (Spatial Information System), using spatial information in geodesy and cartography, editing and developing maps with the use of IT tools.
spatial economy	An individual who has completed BA/BSc studies, was awarded the professional title

	of engineer and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • in the field of fundamental and major subjects (natural conditions in case of spatial management, mathematics, physics, sociology) - necessary to understand the processes occurring in the natural environment; enabling proper shaping of space in accordance with environmental requirements and the needs of civilization development; • in the field of technical subjects (urban planning, spatial planning, geographic spatial information systems) - used to conduct spatial studies and analyzes, allowing the student to shape spatial order and prepare planning documents; • in the field of economic subjects (economy, economics of cities and regions, commune development strategy) - for the purpose of conducting socio-economic analyzes, defining development objectives and programming development policy.
safety engineering	An individual who has completed BA/BSc studies, was awarded the professional title of engineer and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • knowledge of selected issues connected to mathematics and statistics at a level that enables the performance of safety and risk analyzes; • knowledge of ergonomics and occupational health and safety constituting the grounds for the design and implementation of processes in the field of human safety and the control of working conditions and safety standards; • knowledge necessary to design and implement processes connected to the safety of the natural environment and technical facilities; • knowledge of the principles concerning the functioning of the system of safety and protection of the population, the main purpose of such principles is to save and protect life, health and property against threats.
engineering and water management	An individual who has completed BA/BSc studies, was awarded the professional title of engineer and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • in the field of fundamental subjects (mathematics, physics, chemistry and biology) necessary to understand the main processes occurring in the environment and allowing the transformation and use of environmental resources observing the principles of sustainable development; • knowledge concerning the physical and chemical processes occurring in the earth's atmosphere, the terrestrial part of the hydrological cycle and devices improving the usefulness of water, description of the phenomena and laws governing the behaviour of liquids, the basis of the movement of solids in liquids and the flow of mixtures consisting of liquids and solid particles, the main sources of water pollution and their classification; • in the field of structure mechanics and soil mechanics as well as the basics of general construction; knowledge of water-related devices, this includes, techniques, tools and materials applied while solving engineering tasks in the field of hydrotechnical construction; • knowledge concerning water management, with particular focus on extreme weather periods (droughts and floods), basic water devices, components of water supply and sewage systems and other structures related to water management, such as: retention reservoirs, pumping stations, water power plants, sewage treatment plants, etc .; • with regard to the implementation of the principle of sustainable development in water management: preparation of planning documentation bearing in mind the

	needs of water management, documentation enabling the use of environmental water resources and environmental impact assessments; • knowledge enabling students the correct formulation of an engineering task and the use of appropriate measures for its realization allowing them to present the issue to be solved to the public and take part in the discussion devoted to issues in the field of engineering and water management.
environmental engineering	An individual who has completed BA/BSc studies, was awarded the professional title of engineer and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • in the field of fundamental subjects (mathematics, physics, chemistry and biology) necessary to understand the processes occurring in the environment, allowing the student to protect and shape of the environment in a proper manner with the use of technical procedures; • knowledge concerning the physical processes occurring in the Earth's atmosphere and the terrestrial part of the hydrological cycle: description of the phenomena and laws governing the behaviour of liquids, the basis of the movement of solids in liquids and the flow of mixtures composed of liquids and solids, protection of waters against pollution; • in the field of structure mechanics and soil mechanics as well as the basics of general construction: knowledge of hydrotechnical structures, this includes techniques, tools and materials used in solving engineering tasks in this field; • knowledge concerning water, sewage and gas networks and installations, water and wastewater treatment technologies and waste management, general principles of facility operation and new technologies applied in waste management and water and sewage treatment; • knowledge concerning technical infrastructure systems in agricultural and urbanized areas, comprehensive land development, the application of appropriate irrigation methods, drainage, anti-erosion melioration and the operation of drainage facilities; • in the field of hydrotechnical construction, river engineering, retention reservoirs and structures connected to environmental engineering, methods of designing and construction of selected devices and facilities allowing the students to: formulate an engineering task and apply appropriate measures for its implementation in a correct manner, present the problem being solved to the public and take part in a discussion on issues in the field of engineering and environmental protection.
medical plant program	An individual who has completed BA/BSc studies, was awarded the professional title of engineer and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • in the field of fundamental subjects (biology, chemistry and related subjects) necessary for the description of biological and physiological phenomena occurring both in a living organism and within a population, ecosystem and biosphere; • general knowledge of diseases, pests and weeds as well as methods of plant protection against pathogenic factors; • elementary knowledge of law, economy and management related to running a business; • knowledge allowing students to: formulate of the issue and engineering task in a correct manner, application of appropriate measures necessary for its implementation, presentation of the problem solution to the public in a form of a speech or a written study, undertaking a substantive discussion in the field of plant protection.

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environment protection	An individual who has completed BA/BSc studies, was awarded the professional title of engineer and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • fundamental subjects necessary to understand the processes occurring in the environment; • subjects related to the construction, composition and protection of the lithosphere, atmosphere and hydrosphere; • organization of ecological systems in the organism-environment system and their mutual intra-population and inter-population interactions; • processes applied in selected environmental protection installations; environmental monitoring, environmental standards and norms, and environmental management systems.
renewable energy sources and waste management	An individual who has completed BA/BSc studies, was awarded the professional title of engineer and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • in the field of basic subjects necessary for the mathematical description of physical phenomena and the formulation of mathematical and statistical models, and necessary for solving technical and technological issues based on the laws of physics and chemistry; • in the field of physics, the knowledge necessary to understand the basic physical phenomena occurring in obtaining energy from renewable sources; • knowledge concerning chemistry, biochemistry and biology, necessary for understanding the processes involved in obtaining energy from products and waste of plant and animal origin as well as other renewable energy sources; • in the field of law, economy and management of waste and renewable energy, quality and running a business activity, this includes sole proprietorships; • in the field of technologies, techniques, devices and tools used in the production of energy from renewable sources and used in waste management; • ability to formulate the issue and engineering task in a correct manner, apply appropriate measures for its implementation, present solutions to the problem to the public in a form of a speech or a written study, undertake a substantive discussion in the field of renewable energy sources and waste management.
horticulture	An individual who has completed BA/BSc studies, was awarded the professional title of engineer and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • in the field of fundamental subjects (chemistry, physics, biochemistry), • in the field of systematics, anatomy, morphology and physiology of plants, • in the field of genetics, microbiology, phytopathology, entomology, herbology, • in the field of cultivation, nutrition and protection against pests of basic horticultural plant species and the principles of assessing their suitability and quality, • in the field of basic natural rights and activities related to the natural environment, shaping and protection of the environment, independent and team development of engineering design works based on self-collected material necessary for their implementation.
agriculture	An individual who has completed BA/BSc studies, was awarded the professional title of engineer and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies:

	• in the field of fundamental sciences (biology, chemistry, physics and related) allowing the students to understand the phenomena occurring in agricultural production and its environment; • in the field of environmental science and habitat of crops, • elementary knowledge in the field of information technology and engineering graphics, databases, information acquisition and processing, • the possibility of applying basic techniques, apparatus, devices and technologies in plant and animal production, • knowledge of the basic laws of economics and the agricultural market as well as the laws governing production, exchange and consumption.
agricultural and forestry technology	An individual who has completed BA/BSc studies, was awarded the professional title of BA/MSC or engineer and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • in the field of fundamental subjects (mathematics, chemistry, physics, engineering graphics), • in the field of technical mechanics, machine construction, electrical engineering, • in the field of agricultural and forestry production, agricultural and forestry vehicles, agricultural and forestry machinery and food processing. • ability to perform engineering tasks aimed at the needs of agriculture and food and forest management.
food technology and human nutrition	An individual who has completed BA/BSc studies, was awarded the professional title of engineer and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • in the field of chemistry, microbiology, mathematics and physics, adapted to food science; • in the field of assessing the properties of raw materials and products of plant and animal origin; • in the field of application of unit operations, apparatus and devices in reference to food technology; • in the field of food production and storage processes; • in the field of sensory, physicochemical, microbiological and toxicological analysis of food; • knowledge of the principles concerning rational nutrition in reference to various population groups and the ability to develop appropriate menus for healthy people and those suffering from illnesses; • in the field of interpretation, presentation and documentation of the results of the experiment as well as the presentation and documentation of the results of a project task.
production management and engineering	An individual who has completed BA/BSc studies, was awarded the professional title of engineer and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • in the field of fundamental sciences (mathematics and statistics) necessary for the mathematical description of physical phenomena and the formulation of mathematical and statistical models (physics and chemistry) necessary to solve technical and technological issues using the laws of physics and chemistry, • in the field of economic law, marketing and management necessary in various forms of activity connected to agricultural production, • in the field of finance and accounting, allowing the students to assess investment projects and the prepare of cost and effects of managing production factors • in the field of ecology, environmental management, logistics in the enterprise and

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	technological processes in plant and animal production as well as rural farm infrastructure, • in the field of computer-supported design, material engineering as well as automation and robotization of technological processes, allowing the students to solve technical and managerial tasks in a proper manner and to formulate engineering issues and tasks using appropriate means for their implementation, • ability to present a solution to the issue to the public in a form of a speech or a written study, undertaking a substantive discussion in the field of process management and agricultural production engineering.
Quality management and food analysis	An individual who has completed BA/BSc studies, was awarded the professional title of engineer and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • general knowledge of shaping the quality of plant and animal raw materials for the food industry and technology of processing these raw materials, • ability to understand biological and physicochemical phenomena occurring during food processing, unit processes in food production technologies in terms of shaping its properties and quality, • knowledge of the systemic approach concerning quality and safety management in a production and service company, • mastering different analysis techniques devoted to assessing the quality of raw materials, products, auxiliary materials used in the food industry, • skills in the field of interpretation, presentation and documentation of the results of the experiment as well as the presentation and documentation of the results of a project task
zootechnics	An individual who has completed BA/BSc studies, was awarded the professional title of engineer and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • in the field of chemistry, mathematics, physics, biochemistry, cell biology and microbiology adapted to the field of animal science; • knowledge of agrotechnical methods applied in plant cultivation, breeding methods and rearing systems as well as factors determining welfare in animal production and game management; • elementary knowledge of the legal, economic and social aspects of animal production; knowledge of the general principles of establishing and developing forms of individual entrepreneurship in the field of animal breeding and production; • in the field of commodity science concerning raw materials and products of plant and animal origin as well as the possibility of their modification by using agrotechnical techniques and zootechnical treatments; • the ability to prepare typical written works/oral presentations in Polish and a foreign language, to the extent considered as standard for animal science, with the application of basic theoretical approaches, interpretation and documentation of research results.
human nutrition and dietetics	An individual who has completed BA/BSc studies, was awarded the professional title of engineer and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • general knowledge of chemistry, mathematics, biochemistry, microbiology as well as human anatomy and physiology; • knowledge of the basic principles concerning human nutrition and dietetics; • ability to understand the functioning of nutritional counselling and the principles

	of rational nutrition of different population groups; • the ability to prepare properly selected menus for healthy people and people suffering from illnesses; • skills in the field of interpretation, presentation and documentation of the results of the experiment as well as the presentation and documentation of a project task.

Tab. 2. Required knowledge of subjects and skills constituting the grounds for qualification in case of candidates for full-time and part-time MA/MSc studies for courses conducted in English

Courses conducted in English	Requirements
Food Technology and Human Nutrition	An individual who has completed BA/BSc studies, was awarded the professional title of BA/BSc or graduated from long-cycle MA/MSc studies and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • in the field of chemistry, microbiology, mathematics and physics, adapted to the needs of food science; • in the field of evaluating the properties of raw materials and products of plant and animal origin; • in the field of application of unit operations, apparatus and devices in food technology; • in the field of food production and storage processes; • in the field of sensory, physicochemical, microbiological and toxicological analysis of food; • as regards principles of rational nutrition designated for different population groups and the ability to develop appropriate menus for healthy people and people suffering from illnesses; • in the field of interpretation, presentation and documentation of the results of the experiment as well as the presentation and documentation of the results of a project task.
Horticulture	An individual who has completed BA/BSc studies, was awarded the professional title of engineer and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies: • in the field of fundamental subjects (chemistry, physics, biochemistry), • in the field of systematics, anatomy, morphology and physiology of plants, • in the field of genetics, microbiology, phytopathology, entomology, herbology, • in the field of cultivation, nutrition and protection against pests in case of basic horticultural plant species and the principles of evaluating their suitability and quality, • in the field of fundamental natural principles and activities connected to the natural environment, shaping and protection of natural environment, independent and group development of engineering design works based on material collected independently and necessary for project implementation.
Laboratory techniques in biology	An individual who has completed BA/BSc studies, was awarded the professional title of BA/BSc or graduated from long-cycle MA/MSc studies and has competences, this includes, in particular the knowledge and skills necessary for participating in MA/MSC education, can be admitted to MA/MSC studies:

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	• in the field of fundamental sciences (chemistry, biochemistry, physics) to the extent allowing the students to understand nature-related issues; • basic mathematics/mathematical statistics adjusted to the needs of natural science; • in the field of systematic botany and plant morphology, zoology of invertebrates and vertebrates, general genetics and cell biology and histology as well as molecular biology applied in various disciplines of biology; • in the field of biology of living organisms development; • in the field of ecology and environmental protection, especially in terms of observing the mutual correlations between organisms and their environment; • in the field of plant, animal and human anatomy and physiology; • in the field of microbiology, with particular focus on the role of microorganisms in the environment and their impact on plant, animal and human health; • in the field of immunology, with particular emphasis on the biological role of the biological immune system of living organisms; • in the field of evolutionism considering the factors and mechanisms of evolution and modern theories of evolution.

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