

## ANNEX 4 – Scientific fields

|                            |   |
|----------------------------|---|
| <b>Domain Code:</b>        | <b>SH</b>                               |
| <b>Subdomain Code:</b>     | <b>SH1, SH2, SH3, SH4, SH5, SH6</b>     |
| <b>Research Area Code:</b> | <b>SH1_1..SH1_12, SH2_1..SH2_14....</b> |

### DOMAIN SOCIAL SCIENCES AND HUMANITIES

|            |  |
|------------|--|
| <b>SH1</b> | <b>Individuals, institutions and markets:</b> economics, finance and management  |
| SH1_1      | Macroeconomics, growth, business cycles  |
| SH1_2      | Microeconomics, institutional economics  |
| SH1_3      | Econometrics, statistical methods  |
| SH1_4      | Financial markets, banking and corporate finance   |
| SH1_5      | Competitiveness, innovation, research and development  |
| SH1_6      | Consumer choice, behavioral economics, marketing   |
| SH1_7      | Organization studies, strategy   |
| SH1_8      | Human resource management, employment and earnings   |
| SH1_9      | Public administration, public economics  |
| SH1_10     | Income distribution, poverty   |
| SH1_11     | International trade, economic geography  |
| SH1_12     | Economic history, development  |
| <b>SH2</b> | <b>Institutions, values, beliefs and behavior:</b> sociology, social anthropology, political science, law, communication, social studies of science and technology |
| SH2_1      | Social structure, inequalities, social mobility  |
| SH2_2      | Ageing, work, social policies  |
| SH2_3      | Kinship, cultural dimensions of classification and cognition, individual and social identity, gender   |
| SH2_4      | Myth, ritual, symbolic representations, religious studies  |
| SH2_5      | Ethnography  |
| SH2_6      | Globalization, migration, interethnic relations  |
| SH2_7      | Transformation of societies, democratization, social movements   |
| SH2_8      | Political systems, legitimacy of governance  |
| SH2_9      | Legal systems, constitutions, foundations of law   |
| SH2_10     | Private, public and social law   |
| SH2_11     | Global and transnational governance, international law, human rights   |
| SH2_12     | Communication networks, media, information society   |
| SH2_13     | Social studies of science and technology, S&T policies, science and society  |
| SH2_14     | History of science and technology  |
| <b>SH3</b> | <b>Environment and society:</b> environmental studies, demography, social geography, urban and regional studies  |
| SH3_1      | Environment and sustainability   |
| SH3_2      | Environmental regulation and mediation   |
| SH3_3      | Social and industrial ecology  |
| SH3_4      | Geographical information systems, cartography  |
| SH3_5      | Human and social geography   |
| SH3_6      | Spatial and regional planning  |
| SH3_7      | Population dynamics  |
| SH3_8      | Urbanization and urban planning, cities  |
| SH3_9      | Mobility and transportation  |

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|---------------|--|
| <b>SH4</b>    | <b>The Human Mind and its complexity:</b> cognition, psychology, linguistics, philosophy and education                   |
| <b>SH4_1</b>  | Evolution of mind and cognitive functions, animal communication  |
| <b>SH4_2</b>  | Human life-span development  |
| <b>SH4_3</b>  | Neuropsychology and cognitive psychology   |
| <b>SH4_4</b>  | Clinical and experimental psychology   |
| <b>SH4_5</b>  | Formal, cognitive, functional and computational linguistics  |
| <b>SH4_6</b>  | Typological, historical and comparative linguistics  |
| <b>SH4_7</b>  | Acquisition and knowledge of language: psycholinguistics, neurolinguistics   |
| <b>SH4_8</b>  | Use of language: pragmatics, sociolinguistics, discourse analysis  |
| <b>SH4_9</b>  | Second language teaching and learning, language pathologies, lexicography, terminology                                   |
| <b>SH4_10</b> | Philosophy, history of philosophy  |
| <b>SH4_11</b> | Epistemology, logic, philosophy of science   |
| <b>SH4_12</b> | Ethics and morality, bioethics   |
| <b>SH4_13</b> | Education: principles, techniques, typologies  |
| <b>SH5</b>    | <b>Cultures and cultural production:</b> literature, visual and performing arts, music, cultural and comparative studies |
| <b>SH5_1</b>  | Classics   |
| <b>SH5_2</b>  | History of literature  |
| <b>SH5_3</b>  | Literary theory and comparative literature, literary styles  |
| <b>SH5_4</b>  | Textual philology and palaeography   |
| <b>SH5_5</b>  | Visual arts  |
| <b>SH5_6</b>  | Performing arts  |
| <b>SH5_7</b>  | Museums and exhibitions  |
| <b>SH5_8</b>  | Numismatics, epigraphy   |
| <b>SH5_9</b>  | Music and musicology, history of music   |
| <b>SH5_10</b> | History of art and architecture  |
| <b>SH5_11</b> | Cultural studies, cultural diversity   |
| <b>SH5_12</b> | Cultural memory, intangible cultural heritage  |
| <b>SH6</b>    | <b>The study of the human past:</b> archaeology, history and memory  |
| <b>SH6_1</b>  | Archaeology, archaeometry, landscape archaeology   |
| <b>SH6_2</b>  | Prehistory and protohistory  |
| <b>SH6_3</b>  | Ancient history, ancient cultures  |
| <b>SH6_4</b>  | Medieval history   |
| <b>SH6_5</b>  | Modern and contemporary history  |
| <b>SH6_6</b>  | Colonial history, entangled histories, global history  |
| <b>SH6_7</b>  | Military history   |
| <b>SH6_8</b>  | Historiography, theory and methods of history  |
| <b>SH6_9</b>  | History of ideas, intellectual history   |
| <b>SH6_10</b> | Social, economic, cultural and political history   |
| <b>SH6_11</b> | Collective memories, identities, lieux de mémoire, oral history  |
| <b>SH6_12</b> | Cultural heritage  |

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| <b>Domain Code:</b>        | <b>PE</b>                              |
| <b>Subdomain Code:</b>     | <b>PE1, PE2, PE3 .. PE10</b>           |
| <b>Research Area Code:</b> | <b>PE1_1..PE_18, PE2_1..PE2_17....</b> |

**DOMAIN  
MATHEMATICS, PHYSICAL SCIENCES, INFORMATION AND COMMUNICATION,  
ENGINEERING, UNIVERSE AND EARTH SCIENCES**

|            |   |
|------------|---|
| <b>PE1</b> | <b>Mathematical foundations:</b> all areas of mathematics, pure and applied, plus mathematical foundations of computer science, mathematical physics and statistics |
| PE1_1      | Logic and foundations   |
| PE1_2      | Algebra   |
| PE1_3      | Number theory   |
| PE1_4      | Algebraic and complex geometry  |
| PE1_5      | Geometry  |
| PE1_6      | Topology  |
| PE1_7      | Lie groups, Lie algebras  |
| PE1_8      | Analysis  |
| PE1_9      | Operator algebras and functional analysis   |
| PE1_10     | ODE and dynamical systems   |
| PE1_11     | Partial differential equations  |
| PE1_12     | Mathematical physics  |
| PE1_13     | Probability and statistics  |
| PE1_14     | Combinatorics   |
| PE1_15     | Mathematical aspects of computer science  |
| PE1_16     | Numerical analysis and scientific computing   |
| PE1_17     | Control theory and optimization   |
| PE1_18     | Application of mathematics in sciences  |
| <b>PE2</b> | <b>Fundamental constituents of matter:</b> particle, nuclear, plasma, atomic, molecular, gas, and optical physics   |
| PE2_1      | Fundamental interactions and fields   |
| PE2_2      | Particle physics  |
| PE2_3      | Nuclear physics   |
| PE2_4      | Nuclear astrophysics  |
| PE2_5      | Gas and plasma physics  |
| PE2_6      | Electromagnetism  |
| PE2_7      | Atomic, molecular physics   |
| PE2_8      | Optics and quantum optics   |
| PE2_9      | Lasers and laser physics  |
| PE2_10     | Acoustics   |
| PE2_11     | Relativity  |
| PE2_12     | Classical physics   |
| PE2_13     | Thermodynamics  |
| PE2_14     | Non-linear physics  |
| PE2_15     | General physics   |
| PE2_16     | Metrology and measurement   |
| PE2_17     | Statistical physics (gases)   |

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| <b>PE3</b>    | <b>Condensed matter physics:</b> structure, electronic properties, fluids, nanosciences   |
| <b>PE3_1</b>  | Structure of solids and liquids   |
| <b>PE3_2</b>  | Mechanical and acoustical properties of condensed matter  |
| <b>PE3_3</b>  | Thermal properties of condensed matter  |
| <b>PE3_4</b>  | Transport properties of condensed matter  |
| <b>PE3_5</b>  | Electronic properties of materials and transport  |
| <b>PE3_6</b>  | Lattice dynamics  |
| <b>PE3_7</b>  | Semiconductors  |
| <b>PE3_8</b>  | Superconductivity   |
| <b>PE3_9</b>  | Superfluids   |
| <b>PE3_10</b> | Spintronics   |
| <b>PE3_11</b> | Magnetism   |
| <b>PE3_12</b> | Nanophysics: nanoelectronics, nanophotonics, nanomagnetism  |
| <b>PE3_13</b> | Mesosopic physics   |
| <b>PE3_14</b> | Molecular electronics   |
| <b>PE3_15</b> | Soft condensed matter (liquid crystals...)  |
| <b>PE3_16</b> | Fluid dynamics (physics)  |
| <b>PE3_17</b> | Statistical physics (condensed matter)  |
| <b>PE3_18</b> | Phase transitions, phase equilibria   |
| <b>PE3_19</b> | Biophysics  |
| <b>PE4</b>    | <b>Physical and Analytical Chemical sciences:</b> analytical chemistry, chemical theory, physical chemistry/chemical physics                                      |
| <b>PE4_1</b>  | Physical chemistry  |
| <b>PE4_2</b>  | Nanochemistry   |
| <b>PE4_3</b>  | Spectroscopic and spectrometric techniques  |
| <b>PE4_4</b>  | Molecular architecture and Structure  |
| <b>PE4_5</b>  | Surface science   |
| <b>PE4_6</b>  | Analytical chemistry  |
| <b>PE4_7</b>  | Chemical physics  |
| <b>PE4_8</b>  | Chemical instrumentation  |
| <b>PE4_9</b>  | Electrochemistry, electro dialysis, microfluidics   |
| <b>PE4_10</b> | Combinatorial chemistry   |
| <b>PE4_11</b> | Method development in chemistry   |
| <b>PE4_12</b> | Catalysis   |
| <b>PE4_13</b> | Physical chemistry of biological systems  |
| <b>PE4_14</b> | Chemical reactions: mechanisms, dynamics, kinetics and catalytic reactions  |
| <b>PE4_15</b> | Theoretical and computational chemistry   |
| <b>PE4_16</b> | Radiation chemistry   |
| <b>PE4_17</b> | Nuclear chemistry   |
| <b>PE4_18</b> | Photochemistry  |
| <b>PE5</b>    | <b>Materials and Synthesis:</b> materials synthesis, structure-properties relations, functional and advanced materials, molecular architecture, organic chemistry |
| <b>PE5_1</b>  | Structural properties of materials  |
| <b>PE5_2</b>  | Solid state materials   |
| <b>PE5_3</b>  | Surface modification  |
| <b>PE5_4</b>  | Thin films  |
| <b>PE5_5</b>  | Corrosion   |
| <b>PE5_6</b>  | Porous materials  |
| <b>PE5_7</b>  | Ionic liquids   |
| <b>PE5_8</b>  | New materials: oxides, alloys, composite, organic-inorganic hybrid, superconductors   |

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| <b>PE5_9</b>  | Materials for sensors  |
| <b>PE5_10</b> | Nanomaterials : nanoparticles, nanotubes   |
| <b>PE5_11</b> | Biomaterials synthesis   |
| <b>PE5_12</b> | Intelligent materials – self assembled materials   |
| <b>PE5_13</b> | Environment chemistry  |
| <b>PE5_14</b> | Coordination chemistry   |
| <b>PE5_15</b> | Colloid chemistry  |
| <b>PE5_16</b> | Biological chemistry   |
| <b>PE5_17</b> | Chemistry of condensed matter  |
| <b>PE5_18</b> | Homogeneous and heterogeneous catalysis  |
| <b>PE5_19</b> | Characterization methods of materials  |
| <b>PE5_20</b> | Macromolecular chemistry   |
| <b>PE5_21</b> | Polymer chemistry  |
| <b>PE5_22</b> | Supramolecular chemistry   |
| <b>PE5_23</b> | Organic chemistry  |
| <b>PE5_24</b> | Molecular chemistry  |
| <b>PE6</b>    | <b>Computer science and informatics:</b> informatics and information systems, computer science, scientific computing, intelligent systems                          |
| <b>PE6_1</b>  | Computer architecture  |
| <b>PE6_2</b>  | Database management  |
| <b>PE6_3</b>  | Formal methods   |
| <b>PE6_4</b>  | Graphics and image processing  |
| <b>PE6_5</b>  | Human computer interaction and interface   |
| <b>PE6_6</b>  | Informatics and information systems  |
| <b>PE6_7</b>  | Theoretical computer science including quantum information   |
| <b>PE6_8</b>  | Intelligent systems  |
| <b>PE6_9</b>  | Scientific computing   |
| <b>PE6_10</b> | Modelling tools  |
| <b>PE6_11</b> | Multimedia   |
| <b>PE6_12</b> | Parallel and Distributed Computing   |
| <b>PE6_13</b> | Speech recognition   |
| <b>PE6_14</b> | Systems and software   |
| <b>PE7</b>    | <b>Systems and communication engineering:</b> electronic, communication, optical and systems engineering   |
| <b>PE7_1</b>  | Control engineering  |
| <b>PE7_2</b>  | Electrical and electronic engineering: semiconductors, components, systems   |
| <b>PE7_3</b>  | Simulation engineering and modelling   |
| <b>PE7_4</b>  | Systems engineering, sensorics, actorics, automation   |
| <b>PE7_5</b>  | Micro- and nanoelectronics, optoelectronics  |
| <b>PE7_6</b>  | Communication technology, high-frequency technology  |
| <b>PE7_7</b>  | Signal processing  |
| <b>PE7_8</b>  | Networks   |
| <b>PE7_9</b>  | Man-machine-interfaces   |
| <b>PE7_10</b> | Robotics   |
| <b>PE8</b>    | <b>Products and process engineering:</b> product design, process design and control, construction methods, civil engineering, energy systems, material engineering |
| <b>PE8_1</b>  | Aerospace engineering  |
| <b>PE8_2</b>  | Chemical engineering, technical chemistry  |
| <b>PE8_3</b>  | Civil engineering, maritime/hydraulic engineering, geotechnics, waste treatment  |
| <b>PE8_4</b>  | Computational engineering  |
| <b>PE8_5</b>  | Fluid mechanics, hydraulic-, turbo-, and piston engines  |

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|---------|---|
| PE8_6   | Energy systems (production, distribution, application)  |
| PE8_7   | Micro(system) engineering   |
| PE8_8   | Mechanical and manufacturing engineering (shaping, mounting, joining, separation)   |
| PE8_9   | Materials engineering (biomaterials, metals, ceramics, polymers, composites, ...)   |
| PE8_10  | Production technology, process engineering  |
| PE8_11  | Product design, ergonomics, man-machine interfaces  |
| PE8_12  | Lightweight construction, textile technology  |
| PE8_13  | Industrial bioengineering   |
| PE8_14  | Industrial biofuel production   |
| PE9     | <b>Universe sciences:</b> astro-physics/chemistry/biology; solar system; stellar, galactic and extragalactic astronomy, planetary systems, cosmology; space science, instrumentation                    |
| PE9_1   | Solar and interplanetary physics  |
| PE9_2   | Planetary systems sciences  |
| PE9_3   | Interstellar medium   |
| PE9_4   | Formation of stars and planets  |
| PE9_5   | Astrobiology  |
| PE9_6   | Stars and stellar systems   |
| PE9_7   | The Galaxy  |
| PE9_8   | Formation and evolution of galaxies   |
| PE9_9   | Clusters of galaxies and large scale structures   |
| PE9_10  | High energy and particles astronomy – X-rays, cosmic rays, gamma rays, neutrinos  |
| PE9_11  | Relativistic astrophysics   |
| PE9_12  | Dark matter, dark energy  |
| PE9_13  | Gravitational astronomy   |
| PE9_14  | Cosmology   |
| PE9_15  | Space Sciences  |
| PE9_16  | Very large data bases: archiving, handling and analysis   |
| PE9_17  | Instrumentation - telescopes, detectors and techniques  |
| PE9_18  | Solar planetology   |
| PE10    | <b>Earth system science:</b> physical geography, geology, geophysics, meteorology, oceanography, climatology, ecology, global environmental change, biogeochemical cycles, natural resources management |
| PE10_1  | Atmospheric chemistry, atmospheric composition, air pollution   |
| PE10_2  | Meteorology, atmospheric physics and dynamics   |
| PE10_3  | Climatology and climate change  |
| PE10_4  | Terrestrial ecology, land cover change,   |
| PE10_5  | Geology, tectonics, volcanology,  |
| PE10_6  | Paleoclimatology, paleoecology  |
| PE10_7  | Physics of earth's interior, seismology, volcanology  |
| PE10_8  | Oceanography (physical, chemical, biological)   |
| PE10_9  | Biogeochemistry, biogeochemical cycles, environmental chemistry   |
| PE10_10 | Mineralogy, petrology, igneous petrology, metamorphic petrology   |
| PE10_11 | Geochemistry, crystal chemistry, isotope geochemistry, thermodynamics,  |
| PE10_12 | Sedimentology, soil science, palaeontology, earth evolution   |
| PE10_13 | Physical geography  |
| PE10_14 | Earth observations from space/remote sensing  |
| PE10_15 | Geomagnetism, paleomagnetism  |
| PE10_16 | Ozone, upper atmosphere, ionosphere   |
| PE10_17 | Hydrology, water and soil pollution   |

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|----------------------------|--|
| <b>Domain Code:</b>        | <b>LS</b>                                  |
| <b>Subdomain Code:</b>     | <b>LS1,LS2.....LS9</b>                     |
| <b>Research Area Code:</b> | <b>LS1_1....LS1_8,LS2_1....LS2_14.....</b> |

**DOMAIN  
LIFE SCIENCES**

|            |   |
|------------|---|
| <b>LS1</b> | <b>Molecular and Structural Biology and Biochemistry:</b> molecular biology, biochemistry, biophysics, structural biology, biochemistry of signal transduction  |
| LS1_1      | Molecular biology and interactions  |
| LS1_2      | General biochemistry and metabolism   |
| LS1_3      | DNA biosynthesis, modification, repair and degradation  |
| LS1_4      | RNA synthesis, processing, modification and degradation   |
| LS1_5      | Protein synthesis, modification and turnover  |
| LS1_6      | Biophysics  |
| LS1_7      | Structural biology (crystallography, NMR, EM)   |
| LS1_8      | Biochemistry of signal transduction   |
| <b>LS2</b> | <b>Genetics, Genomics, Bioinformatics and Systems Biology:</b> genetics, population genetics, molecular genetics, genomics, transcriptomics, proteomics,metabolomics, bioinformatics, computational biology, biostatistics, biologicalmodelling and simulation, systems biology, genetic epidemiology |
| LS2_1      | Genomics, comparative genomics, functional genomics   |
| LS2_2      | Transcriptomics   |
| LS2_3      | Proteomics  |
| LS2_4      | Metabolomics  |
| LS2_5      | Glycomics   |
| LS2_6      | Molecular genetics, reverse genetics and RNAi   |
| LS2_7      | Quantitative genetics   |
| LS2_8      | Epigenetics and gene regulation   |
| LS2_9      | Genetic epidemiology  |
| LS2_10     | Bioinformatics  |
| LS2_11     | Computational biology   |
| LS2_12     | Biostatistics   |
| LS2_13     | Systems biology   |
| LS2_14     | Biological systems analysis, modelling and simulation   |
| <b>LS3</b> | <b>Cellular and Developmental Biology:</b> cell biology, cell physiology, signal transduction, organogenesis, developmental genetics, pattern formation in plants and animals   |
| LS3_1      | Morphology and functional imaging of cells  |
| LS3_2      | Cell biology and molecular transport mechanisms   |
| LS3_3      | Cell cycle and division   |
| LS3_4      | Apoptosis   |
| LS3_5      | Cell differentiation, physiology and dynamics   |
| LS3_6      | Organelle biology   |
| LS3_7      | Cell signalling and cellular interactions   |
| LS3_8      | Signal transduction   |
| LS3_9      | Development, developmental genetics, pattern formation and embryology in animals  |
| LS3_10     | Development, developmental genetics, pattern formation and embryology in plants   |
| LS3_11     | Cell genetics   |
| LS3_12     | Stem cell biology   |

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| <b>LS4</b> | <b>Physiology, Pathophysiology and Endocrinology:</b> organ physiology, pathophysiology, endocrinology, metabolism, ageing, regeneration, tumorigenesis, cardiovascular disease, metabolic syndrome                      |
| LS4_1      | Organ physiology   |
| LS4_2      | Comparative physiology   |
| LS4_3      | Endocrinology  |
| LS4_4      | Ageing   |
| LS4_5      | Metabolism, biological basis of metabolism related disorders   |
| LS4_6      | Cancer and its biological basis  |
| LS4_7      | Cardiovascular diseases  |
| LS4_8      | Non-communicable diseases (except for neural/psychiatric, immunity-related, metabolism-related disorders, cancer and cardiovascular diseases)  |
| <b>LS5</b> | <b>Neurosciences and neural disorders:</b> neurobiology, neuroanatomy, neurophysiology, neurochemistry, neuropharmacology, neuroimaging, systems neuroscience, neurological disorders, psychiatry                        |
| LS5_1      | Neuroanatomy and neurosurgery  |
| LS5_2      | Neurophysiology  |
| LS5_3      | Neurochemistry and neuropharmacology   |
| LS5_4      | Sensory systems (e.g. visual system, auditory system)  |
| LS5_5      | Mechanisms of pain   |
| LS5_6      | Developmental neurobiology   |
| LS5_7      | Cognition (e.g. learning, memory, emotions, speech)  |
| LS5_8      | Behavioral neuroscience (e.g. sleep, consciousness, handedness)  |
| LS5_9      | Systems neuroscience   |
| LS5_10     | Neuroimaging and computational neuroscience  |
| LS5_11     | Neurological disorders (e.g. Alzheimer's disease, Huntington's disease, Parkinson's disease)   |
| LS5_12     | Psychiatric disorders (e.g. schizophrenia, autism, Tourette's syndrome, obsessive compulsive disorder, depression, bipolar disorder, attention deficit hyperactivity disorder)   |
| <b>LS6</b> | <b>Immunity and infection:</b> immunobiology, aetiology of immune disorders, microbiology, virology, parasitology, global and other infectious diseases, population dynamics of infectious diseases, veterinary medicine |
| LS6_1      | Innate immunity  |
| LS6_2      | Adaptive immunity  |
| LS6_3      | Phagocytosis and cellular immunity   |
| LS6_4      | Immunosignalling   |
| LS6_5      | Immunological memory and tolerance   |
| LS6_6      | Immunogenetics   |
| LS6_7      | Microbiology   |
| LS6_8      | Virology   |
| LS6_9      | Bacteriology   |
| LS6_10     | Parasitology   |
| LS6_11     | Prevention and treatment of infection by pathogens (e.g. vaccination, antibiotics, fungicide)  |
| LS6_12     | Biological basis of immunity related disorders   |
| LS6_13     | Veterinary medicine  |
| <b>LS7</b> | <b>Diagnostic tools, therapies and public health:</b> aetiology, diagnosis and treatment of disease, public health, epidemiology, pharmacology, clinical medicine, regenerative medicine, medical ethics                 |
| LS7_1      | Medical engineering and technology   |
| LS7_2      | Diagnostic tools (e.g. genetic, imaging)   |
| LS7_3      | Pharmacology, pharmacogenomics, drug discovery and design, drug therapy  |
| LS7_4      | Analgesia  |
| LS7_5      | Toxicology   |
| LS7_6      | Gene therapy, stem cell therapy, regenerative medicine   |
| LS7_7      | Surgery  |
| LS7_8      | Radiation therapy  |
| LS7_9      | Health services, health care research  |



|            |   |
|------------|---|
| LS7_10     | Public health and epidemiology  |
| LS7_11     | Environment and health risks including radiation  |
| LS7_12     | Occupational medicine   |
| LS7_13     | Medical ethics  |
| <b>LS8</b> | <b>Evolutionary, population and environmental biology:</b> evolution, ecology, animal behaviour, population biology, biodiversity, biogeography, marine biology, eco-toxicology, prokaryotic biology  |
| LS8_1      | Ecology (theoretical, community, population, microbial, evolutionary ecology)   |
| LS8_2      | Population biology, population dynamics, population genetics, plant-animal interactions   |
| LS8_3      | Systems Evolution, biological adaptation, phylogenetics, systematics  |
| LS8_4      | Biodiversity, comparative biology   |
| LS8_5      | Conservation biology, ecology, genetics   |
| LS8_6      | Biogeography  |
| LS8_7      | Animal behaviour (behavioural ecology, animal communication)  |
| LS8_8      | Environmental and marine biology  |
| LS8_9      | Environmental toxicology  |
| LS8_10     | Prokaryotic biology   |
| LS8_11     | Symbiosis   |
| <b>LS9</b> | <b>Applied life sciences and biotechnology:</b> agricultural, animal, fishery, forestry and food sciences; biotechnology, chemical biology, genetic engineering, synthetic biology, industrial biosciences; environmental biotechnology and remediation |
| LS9_1      | Genetic engineering, transgenic organisms, recombinant proteins, biosensors   |
| LS9_2      | Synthetic biology and new bio-engineering concepts  |
| LS9_3      | Agriculture related to animal husbandry, dairying, livestock raising  |
| LS9_4      | Aquaculture, fisheries  |
| LS9_5      | Agriculture related to crop production, soil biology and cultivation, applied plant biology   |
| LS9_6      | Food sciences   |
| LS9_7      | Forestry, biomass production (e.g. for biofuels)  |
| LS9_8      | Environmental biotechnology, bioremediation, biodegradation   |
| LS9_9      | Biotechnology, bioreactors, applied microbiology  |
| LS9_10     | Biomimetics   |
| LS9_11     | Biohazards, biological containment, biosafety, biosecurity  |

**Research fields with a Romanian character** are Romanian literature and language and the Romanian law, which are framed in the following research areas:

SH2\_10 Private, public and social law

SH5\_2 History of literature

SH5\_3 Literary theory and comparative literature, literary styles

SH5\_4 Textual philology and palaeography

*The list of the domains where the projects are hierarchised*

| Subdomain name                            | Subdomain code  |
|---|---|
| Mathematics and Computer Science          | PE1_1;PE1_2; PE1_3; PE1_4; PE1_5; PE1_6; PE1_7; PE1_8; PE1_9; PE1_10; PE1_11; PE1_12; PE1_13; PE1_14; PE1_15; PE1_16; PE1_17; PE1_18.<br>PE6_1; PE6_2; PE6_3; PE6_4; PE6_5; PE6_6; PE6_7; PE6_8; PE6_9; PE6_10; PE6_11; PE6_12; PE6_13; PE6_14.   |
| Chemistry                                 | PE4_1; PE4_2; PE4_3; PE4_4; PE4_5; PE4_6; PE4_7; PE4_8; PE4_9; PE4_10; PE4_11; PE4_12; PE4_13; PE4_14; PE4_15; PE4_16; PE4_17; PE4_18.<br>PE5_13; PE5_14; PE5_15; PE5_16; PE5_17; PE5_18; PE5_19; PE5_20; PE5_21; PE5_22; PE5_23; PE5_24.   |
| Physics                                   | PE2_1;<br>PE2_2; PE2_3; PE2_4; PE2_5; PE2_6; PE2_7; PE2_8; PE2_9; PE2_10; PE2_11; PE2_12; PE2_13; PE2_14; PE2_15; PE2_16; PE2_17.<br>PE3_1; PE3_2; PE3_3; PE3_4; PE3_5; PE3_6; PE3_7; PE3_8; PE3_9; PE3_10; PE3_11; PE3_12; PE3_13; PE3_14; PE3_15; PE3_16; PE3_17; PE3_18; PE3_19.<br>PE9_1; PE9_2; PE9_3; PE9_4; PE9_5; PE9_6; PE9_7; PE9_8; PE9_9; PE9_10; PE9_11; PE9_12; PE9_13; PE9_14; PE9_15; PE9_16; PE9_17; PE9_18.   |
| Engineering Sciences                      | PE7_1; PE7_2; PE7_3; PE7_4; PE7_5; PE7_6; PE7_7; PE7_8; PE7_9; PE7_10.<br>PE8_1; PE8_2; PE8_3; PE8_4; PE8_5; PE8_6; PE8_7; PE8_8; PE8_9; PE8_10; PE8_11; PE8_12; PE8_13; PE8_14;  |
| Materials Sciences                        | PE5_1; PE5_2; PE5_3; PE5_4; PE5_5; PE5_6; PE5_7; PE5_8; PE5_9; PE5_10; PE5_11; PE5_12.  |
| Earth Sciences                            | PE10_1; PE10_2; PE10_3; PE10_4; PE10_5; PE10_6; PE10_7; PE10_8; PE10_9; PE10_10; PE10_11; PE10_12; PE10_13; PE10_14; PE10_15; PE10_16; PE10_17  |
| Biology and Ecology                       | LS1_1; LS1_2; LS1_3; LS1_4; LS1_5; LS1_6; LS1_7; LS1_8.<br>LS2_1; LS2_2; LS2_3; LS2_4; LS2_5; LS2_6; LS2_7; LS2_8; LS2_9; LS2_10; LS2_11; LS2_12; LS2_13; LS2_14.<br>LS3_1; LS3_2; LS3_3; LS3_4; LS3_5; LS3_6; LS3_7; LS3_8; LS3_9;<br>LS3_10; LS3_11; LS3_12.<br>LS4_1; LS4_2; LS4_3; LS4_4; LS4_5; LS4_6; LS4_7; LS4_8.<br>LS5_1; LS5_2; LS5_3; LS5_4; LS5_5; LS5_6; LS5_7; LS5_8; LS5_9; LS5_10; LS5_11; LS5_12.<br>LS8_1; LS8_2; LS8_3; LS8_4; LS8_5; LS8_6; LS8_7; LS8_8; LS8_9; LS8_10; LS8_11. |
| Medicine                                  | LS6_1; LS6_2; LS6_3; LS6_4; LS6_5; LS6_6; LS6_7; LS6_8; LS6_9; LS6_10; LS6_11; LS6_12; LS6_13.<br>LS7_1; LS7_2; LS7_3; LS7_4; LS7_5; LS7_6; LS7_7; LS7_8; LS7_9; LS7_10; LS7_11; LS7_12; LS7_13.  |
| Applied Life Sciences and Biotechnologies | LS9_1; LS9_2; LS9_3; LS9_4; LS9_5; LS9_6; LS9_7; LS9_8; LS9_9; LS9_10; LS9_11.  |
| Social and Economic Sciences              | SH1_1; SH1_2; SH1_3; SH1_4; SH1_5; SH1_6; SH1_7; SH1_8; SH1_9;<br>SH1_10; SH1_11.<br>SH2_1; SH2_2; SH2_3; SH2_6; SH2_7; SH2_8; SH2_9; SH2_10;<br>SH2_11; SH2_12 ;SH2_13;<br>SH3_1; SH3_2; SH3_3; SH3_4; SH3_5; SH3_6; SH3_7; SH3_8; SH3_9;<br>SH4_1; SH4_2; SH4_3; SH4_4; SH4_5; SH4_7; SH4_8; SH4_9; SH4_13.   |
| Humanities                                | SH1_12; SH2_4; SH2_5; SH2_14; SH4_6; SH4_10; SH4_11; SH4_12;<br>SH5_1; SH5_2; SH5_3; SH5_4; SH5_5; SH5_6; SH5_7; SH5_8; SH5_9; SH5_10; SH5_11; SH5_12; SH6_1;<br>SH6_2; SH6_3; SH6_4; SH6_5; SH6_6; SH6_7; SH6_8; SH6_9; SH6_10; SH6_11; SH6_12.  |

Table of sequence between the application domain and the rating domain of the journal/publishing house by CNCS

|  |  |
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| 1. History of economy; History of science and technology. Social, economic and political history. Military history.  | SH1 12, SH2 14, SH6 7, SH6 10          |
| 2. Archaeology and archaeometry. Prehistory and protohistory. Ancient history and ancient cultures. Classics. Palaeography. Numismatics and epigraphy.   | SH5 1, SH5 8, SH6 1, SH6 2, SH6 3      |
| 3. Medieval history. Modern and contemporary history. Colonial history and global history  | SH6 4, SH6 5, SH6 7                    |
| 4. Historiography, theory and methods of history. History of ideas, intellectual history. Collective memories, identities, lieux de mémoire, oral history. Genealogical table. Heraldry and Sealography. | SH6 8, SH6 9, SH 6 11                  |
| 5. History of art and architecture. Cultural studies. Cultural memory and heritage. Cultural heritage.   | SH2 3, SH5 10, SH5 11, SH5 12, SH 6 12 |
| 6. Myth, rituals, symbolic representations and religious studies. Ethnography.   | SH2 4                                  |
| 7. Romanian language and literature.   | SH5 4                                  |
| 8. Foreign languages.  | SH4 9, SH5 2, SH5 3, SH5 4             |
| 9. Philosophy and history of philosophy. Epistemology, logic and philosophy of science. Ethics and bioethics.  | SH4 10, SH4 11, SH4 12,                |
| 10. Visual arts. Performing arts. Museums and exhibitions. Music and musicology, history of music.   | SH5 5, SH5 6, SH5 7, SH5 9 ,           |