

Level 1 – Main Research Domain

SH Social Sciences and Humanities

- SH1 Individuals, institutions and markets**
- SH2 Institutions, values, beliefs and behaviour**
- SH3 Environment and society**
- SH4 The Human Mind and its complexity**
- SH5 Cultures and cultural production**
- SH6 The study of the human past**

PE- Mathematics, physical sciences, information and communication, engineering, universe and earth sciences

- PE1 Mathematical foundations**
- PE2 Fundamental constituents of matter**
- PE3 Condensed matter physics**
- PE4 Physical and Analytical Chemical sciences**
- PE5 Materials and Synthesis**
- PE6 Computer science and informatics**
- PE7 Systems and communication engineering**
- PE8 Products and process engineering**
- PE9 Universe sciences**
- PE10 Earth system science**

LS- Life Sciences

- LS1 Molecular and Structural Biology and Biochemistry**
- LS2 Genetics, Genomics, Bioinformatics and Systems Biology**
- LS3 Cellular and Developmental Biology**
- LS4 Physiology, Pathophysiology and Endocrinology**
- LS5 Neurosciences and neural disorders**
- LS6 Immunity and infection**
- LS7 Diagnostic tools, therapies and public health**
- LS8 Evolutionary, population and environmental biology**
- LS9 Applied life sciences and biotechnology**

Level 2 – Research Subdomains

SH1 Individuals, institutions and markets

- 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, behavioural 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

SH2 Institutions, values, beliefs and behaviour

- 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

SH3 Environment and society

- 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

SH4 The Human Mind and its complexity

- SH4_1 Evolution of mind and cognitive functions, animal communication
- SH4_2 Human life-span development
- SH4_3 Neuropsychology and cognitive psychology
- SH4_4 Clinical and experimental psychology,
- SH4_5 Formal, cognitive, functional and computational linguistics
- SH4_6 Typological, historical and comparative linguistics
- SH4_7 Acquisition and knowledge of language: psycholinguistics, neurolinguistics
- SH4_8 Use of language: pragmatics, sociolinguistics, discourse analysis
- SH4_9 second language teaching and learning, language pathologies, lexicography, terminology
- SH4_10 Philosophy, history of philosophy
- SH4_11 Epistemology, logic, philosophy of science
- SH4_12 Ethics and morality, bioethics
- SH4_13 Education: principles, techniques, typologies

SH5 Cultures and cultural production

- SH5_1 Classics
- SH5_2 History of literature
- SH5_3 Literary theory and comparative literature, literary styles
- SH5_4 Textual philology and palaeography
- SH5_5 Visual arts
- SH5_6 Performing arts
- SH5_7 Museums and exhibitions
- SH5_8 Numismatics, epigraphy
- SH5_9 Music and musicology, history of music
- SH5_10 History of art and architecture
- SH5_11 Cultural studies, cultural diversity
- SH5_12 Cultural memory, intangible cultural heritage

SH6 The study of the human past

- SH6_1 Archaeology, archaeometry, landscape archaeology
- SH6_2 Prehistory and protohistory
- SH6_3 Ancient history, ancient cultures
- SH6_4 Medieval history
- SH6_5 Modern and contemporary history
- SH6_6 Colonial history, entangled histories, global history
- SH6_7 Military history,
- SH6_8 Historiography, theory and methods of history
- SH6_9 History of ideas, intellectual history
- SH6_10 Social, economic, cultural and political history
- SH6_11 Collective memories, identities, lieux de mémoire, oral history
- SH6_12 Cultural heritage

PE1 Mathematical foundations

- 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

PE2 Fundamental constituents of matter

- 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)

PE3 Condensed matter physics

- PE3_1 Structure of solids and liquids
- PE3_2 Mechanical and acoustical properties of condensed matter
- PE3_3 Thermal properties of condensed matter
- PE3_4 Transport properties of condensed matter,
- PE3_5 Electronic properties of materials and transport
- PE3_6 Lattice dynamics
- PE3_7 Semiconductors
- PE3_8 Superconductivity
- PE3_9 Superfluids
- PE3_10 Spintronics
- PE3_11 Magnetism
- PE3_12 Nanophysics: nanoelectronics, nanophotonics, nanomagnetism
- PE3_13 Mesoscopic physics
- PE3_14 Molecular electronics
- PE3_15 Soft condensed matter (liquid crystals...)
- PE3_16 Fluid dynamics (physics)
- PE3_17 Statistical physics (condensed matter)
- PE3_18 Phase transitions, phase equilibria
- PE3_19 Biophysics

PE4 Physical and Analytical Chemical sciences

- PE4_1 Physical chemistry
- PE4_2 Nanochemistry
- PE4_3 Spectroscopic and spectrometric techniques
- PE4_4 Molecular architecture and Structure
- PE4_5 Surface science
- PE4_6 Analytical chemistry
- PE4_7 Chemical physics
- PE4_8 Chemical instrumentation
- PE4_9 Electrochemistry, electrodialysis, microfluidics
- PE4_10 Combinatorial chemistry
- PE4_11 Method development in chemistry
- PE4_12 Catalysis
- PE4_13 Physical chemistry of biological systems
- PE4_14 Chemical reactions: mechanisms, dynamics, kinetics and catalytic reactions
- PE4_15 Theoretical and computational chemistry
- PE4_16 Radiation chemistry
- PE4_17 Nuclear chemistry
- PE4_18 Photochemistry

PE5 Materials and Synthesis

- PE5_1 Structural properties of materials
- PE5_2 Solid state materials
- PE5_3 Surface modification
- PE5_4 Thin films
- PE5_5 Corrosion
- PE5_6 Porous materials
- PE5_7 Ionic liquids
- PE5_8 New materials: oxides, alloys, composite, organic-inorganic hybrid, superconductors
- PE5_9 Materials for sensors
- PE5_10 Nanomaterials : nanoparticles, nanotubes
- PE5_11 Biomaterials synthesis
- PE5_12 Intelligent materials – self assembled materials
- PE5_13 Environment chemistry
- PE5_14 Coordination chemistry
- PE5_15 Colloid chemistry
- PE5_16 Biological chemistry
- PE5_17 Chemistry of condensed matter
- PE5_18 Homogeneous and heterogeneous catalysis
- PE5_19 Characterization methods of materials
- PE5_20 Macromolecular chemistry,
- PE5_21 Polymer chemistry
- PE5_22 Supramolecular chemistry
- PE5_23 Organic chemistry
- PE5_24 Molecular chemistry

PE6 Computer science and informatics

- PE6_1 Computer architecture
- PE6_2 Database management
- PE6_3 Formal methods
- PE6_4 Graphics and image processing
- PE6_5 Human computer interaction and interface
- PE6_6 Informatics and information systems
- PE6_7 Theoretical computer science including quantum information
- PE6_8 Intelligent systems
- PE6_9 Scientific computing
- PE6_10 Modelling tools
- PE6_11 Multimedia
- PE6_12 Parallel and Distributed Computing
- PE6_13 Speech recognition
- PE6_14 Systems and software

PE7 Systems and communication engineering

- PE7_1 Control engineering
- PE7_2 Electrical and electronic engineering: semiconductors, components, systems
- PE7_4 Simulation engineering and modelling
- PE7_5 Systems engineering, sensorics, actorics, automation
- PE7_6 Micro- and nanoelectronics, optoelectronics
- PE7_7 Communication technology, high-frequency technology
- PE7_8 Signal processing
- PE7_9 Networks
- PE7_10 Man-machine-interfaces
- PE7_11 Robotics

PE8 Products and process engineering

- PE8_1 Aerospace engineering
- PE8_2 Chemical engineering, technical chemistry
- PE8_3 Civil engineering, maritime/hydraulic engineering, geotechnics, waste treatment
- PE8_4 Computational engineering
- PE8_5 Fluid mechanics, hydraulic-, turbo-, and piston engines
- 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 Universe sciences

- 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 Earth system science

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_13 Sedimentology, soil science, palaeontology, earth evolution
 PE10_14 Physical geography
 PE10_15 Earth observations from space/remote sensing
 PE10_16 Geomagnetism, paleomagnetism
 PE10_17 Ozone, upper atmosphere, ionosphere
 PE10_18 Hydrology, water and soil pollution

LS1 Molecular and Structural Biology and Biochemistry

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

LS2 Genetics, Genomics, Bioinformatics and Systems Biology

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

LS3 Cellular and Developmental Biology

- 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

LS4 Physiology, Pathophysiology and Endocrinology

- 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)

LS5 Neurosciences and neural disorders

- 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)

LS6 Immunity and infection

- 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

LS7 Diagnostic tools, therapies and public health

- 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

LS8 Evolutionary, population and environmental biology

- LS8_1 Ecology (theoretical, community, population, microbial, evolutionary ecology)
- LS8_2 Population biology, population dynamics, population genetics, plant-animal interactions)
- LS8_3 Systems eEvolution, 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

LS9 Applied life sciences and biotechnology

- 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