

Physical Sciences and Engineering

PE1 Mathematics

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 Lie groups, Lie algebras
- PE1_6 Geometry and global analysis
- PE1_7 Topology
- PE1_8 Analysis
- PE1_9 Operator algebras and functional analysis
- PE1_10 ODE and dynamical systems
- PE1_11 Theoretical aspects of partial differential equations
- PE1_12 Mathematical physics
- PE1_13 Probability
- PE1_14 Mathematical statistics
- PE1_15 Generic statistical methodology and modelling
- PE1_16 Discrete mathematics and combinatorics
- PE1_17 Mathematical aspects of computer science
- PE1_18 Numerical analysis
- PE1_19 Scientific computing and data processing
- PE1_20 Control theory, optimisation and operational research
- PE1_21 Application of mathematics in sciences
- PE1_22 Application of mathematics in industry and society

PE2 Fundamental Constituents of Matter

Particle, nuclear, plasma, atomic, molecular, gas, and optical physics

- PE2_1 Theory of fundamental interactions
- PE2_2 Phenomenology of fundamental interactions
- PE2_3 Experimental particle physics with accelerators
- PE2_4 Experimental particle physics without accelerators
- PE2_5 Classical and quantum physics of gravitational interactions
- PE2_6 Nuclear, hadron and heavy ion physics
- PE2_7 Nuclear and particle astrophysics
- PE2_8 Gas and plasma physics
- PE2_9 Electromagnetism
- PE2_10 Atomic, molecular physics
- PE2_11 Ultra-cold atoms and molecules
- PE2_12 Optics, non-linear optics and nano-optics
- PE2_13 Quantum optics and quantum information
- PE2_14 Lasers, ultra-short lasers and laser physics
- PE2_15 Thermodynamics
- PE2_16 Non-linear physics
- PE2_17 Metrology and measurement
- PE2_18 Equilibrium and non-equilibrium statistical mechanics: steady states and dynamics

PE3 Condensed Matter Physics

Structure, electronic properties, fluids, nanosciences, biological physics

- PE3_1 Structure of solids, material growth and characterisation

- PE3_2 Mechanical and acoustical properties of condensed matter, lattice dynamics
- PE3_3 Transport properties of condensed matter
- PE3_4 Electronic properties of materials, surfaces, interfaces, nanostructures
- PE3_5 Physical properties of semiconductors and insulators
- PE3_6 Macroscopic quantum phenomena, e.g. superconductivity, superfluidity, quantum Hall effect
- PE3_7 Spintronics
- PE3_8 Magnetism and strongly correlated systems
- PE3_9 Condensed matter – beam interactions (photons, electrons, etc.)
- PE3_10 Nanophysics, e.g. nanoelectronics, nanophotonics, nanomagnetism, nanoelectromechanics
- PE3_11 Mesoscopic quantum physics and solid-state quantum technologies
- PE3_12 Molecular electronics
- PE3_13 Structure and dynamics of disordered systems, e.g. soft matter (gels, colloids, liquid crystals), granular matter, liquids, glasses, defects
- PE3_14 Fluid dynamics (physics)
- PE3_15 Statistical physics: phase transitions, condensed matter systems, models of complex systems, interdisciplinary applications
- PE3_16 Physics of biological systems

PE4 Physical and Analytical Chemical Sciences

Analytical chemistry, chemical theory, physical chemistry/chemical physics

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

PE5 Synthetic Chemistry and Materials

New materials and new synthetic approaches, structure-properties relations, solid state chemistry, molecular architecture, organic chemistry

- PE5_1 Structural properties of materials
- PE5_2 Solid state materials chemistry
- PE5_3 Surface modification
- PE5_4 Thin films
- PE5_5 Ionic liquids
- PE5_6 New materials: oxides, alloys, composite, organic-inorganic hybrid, nanoparticles
- PE5_7 Biomaterials synthesis
- PE5_8 Intelligent materials synthesis – self assembled materials

PE5_9 Coordination chemistry
PE5_10 Colloid chemistry
PE5_11 Biological chemistry and chemical biology
PE5_12 Chemistry of condensed matter
PE5_13 Homogeneous catalysis
PE5_14 Macromolecular chemistry
PE5_15 Polymer chemistry
PE5_16 Supramolecular chemistry
PE5_17 Organic chemistry
PE5_18 Medicinal chemistry

PE6 Computer Science and Informatics

Informatics and information systems, computer science, scientific computing, intelligent systems

PE6_1 Computer architecture, embedded systems, operating systems
PE6_2 Distributed systems, parallel computing, sensor networks, cyber-physical systems
PE6_3 Software engineering, programming languages and systems
PE6_4 Theoretical computer science, formal methods, automata
PE6_5 Security, privacy, cryptology, quantum cryptography
PE6_6 Algorithms and complexity, distributed, parallel and network algorithms, algorithmic game theory
PE6_7 Artificial intelligence, intelligent systems, natural language processing
PE6_8 Computer graphics, computer vision, multimedia, computer games
PE6_9 Human computer interaction and interface, visualisation
PE6_10 Web and information systems, data management systems, information retrieval and digital libraries, data fusion
PE6_11 Machine learning, statistical data processing and applications using signal processing (e.g. speech, image, video)
PE6_12 Scientific computing, simulation and modelling tools
PE6_13 Bioinformatics, bio-inspired computing, and natural computing
PE6_14 Quantum computing (formal methods, algorithms and other computer science aspects)

PE7 Systems and Communication Engineering

Electrical, electronic, communication, optical and systems engineering

PE7_1 Control engineering
PE7_2 Electrical engineering: power components and/or systems
PE7_3 Simulation engineering and modelling
PE7_4 (Micro- and nano-) systems engineering
PE7_5 (Micro- and nano-) electronic, optoelectronic and photonic components
PE7_6 Communication systems, wireless technology, high-frequency technology
PE7_7 Signal processing
PE7_8 Networks, e.g. communication networks and nodes, Internet of Things, sensor networks, networks of robots
PE7_9 Man-machine interfaces
PE7_10 Robotics
PE7_11 Components and systems for applications (in e.g. medicine, biology, environment)
PE7_12 Electrical energy production, distribution, applications

PE8 Products and Processes Engineering

Product and process design, chemical, civil, environmental, mechanical, vehicle engineering, energy processes and relevant computational methods

PE8_1 Aerospace engineering

PE8_2 Chemical engineering, technical chemistry

PE8_3 Civil engineering, architecture, offshore construction, lightweight construction, geotechnics

PE8_4 Computational engineering

PE8_5 Fluid mechanics

PE8_6 Energy processes engineering

PE8_7 Mechanical engineering

PE8_8 Propulsion engineering, e.g. hydraulic, turbo, piston, hybrid engines

PE8_9 Production technology, process engineering

PE8_10 Manufacturing engineering and industrial design

PE8_11 Environmental engineering, e.g. sustainable design, waste and water treatment, recycling, regeneration or recovery of compounds, carbon capture & storage

PE8_12 Naval/marine engineering

PE8_13 Industrial bioengineering

PE8_14 Automotive and rail engineering; multi-/inter-modal transport engineering

PE9 Universe Sciences

Astro-physics/-chemistry/-biology; solar system; planetary systems; stellar, galactic and extragalactic astronomy; cosmology; space sciences; astronomical instrumentation and data

PE9_1 Solar physics – the Sun and the heliosphere

PE9_2 Solar system science

PE9_3 Exoplanetary science, formation and characterization of extrasolar planets

PE9_4 Astrobiology

PE9_5 Interstellar medium and star formation

PE9_6 Stars – stellar physics, stellar systems

PE9_7 The Milky Way

PE9_8 Galaxies – formation, evolution, clusters

PE9_9 Cosmology and large-scale structure, dark matter, dark energy

PE9_10 Relativistic astrophysics and compact objects

PE9_11 Gravitational wave astronomy

PE9_12 High-energy and particle astronomy

PE9_13 Astronomical instrumentation and data, e.g. telescopes, detectors, techniques, archives, analyses

PE10 Earth System Science

Physical geography, geology, geophysics, atmospheric sciences, oceanography, climatology, cryology, 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 Palaeoclimatology, palaeoecology

PE10_7 Physics of earth's interior, seismology, geodynamics

PE10_8 Oceanography (physical, chemical, biological, geological)

PE10_9 Biogeochemistry, biogeochemical cycles, environmental chemistry

PE10_10 Mineralogy, petrology, igneous petrology, metamorphic petrology

- PE10_11 Geochemistry, cosmochemistry, crystal chemistry, isotope geochemistry, thermodynamics
- PE10_12 Sedimentology, soil science, palaeontology, earth evolution
- PE10_13 Physical geography, geomorphology
- PE10_14 Earth observations from space/remote sensing
- PE10_15 Geomagnetism, palaeomagnetism
- PE10_16 Ozone, upper atmosphere, ionosphere
- PE10_17 Hydrology, hydrogeology, engineering and environmental geology, water and soil pollution
- PE10_18 Cryosphere, dynamics of snow and ice cover, sea ice, permafrosts and ice sheets
- PE10_19 Planetary geology and geophysics
- PE10_20 Geohazards
- PE10_21 Earth system modelling and interactions

PE11 Materials Engineering

Advanced materials development: performance enhancement, modelling, large-scale preparation, modification, tailoring, optimisation, novel and combined use of materials, etc.

- PE11_1 Engineering of biomaterials, biomimetic, bioinspired and bio-enabled materials
- PE11_2 Engineering of metals and alloys
- PE11_3 Engineering of ceramics and glasses
- PE11_4 Engineering of polymers and plastics
- PE11_5 Engineering of composites and hybrid materials
- PE11_6 Engineering of carbon materials
- PE11_7 Engineering of metal oxides
- PE11_8 Engineering of alternative established or emergent materials
- PE11_9 Nanomaterials engineering, e.g. nanoparticles, nanoporous materials, 1D & 2D nanomaterials
- PE11_10 Soft materials engineering, e.g. gels, foams, colloids
- PE11_11 Porous materials engineering, e.g. covalent-organic, metal-organic, porous aromatic frameworks
- PE11_12 Semi-conducting and magnetic materials engineering
- PE11_13 Metamaterials engineering
- PE11_14 Computational methods for materials engineering

Life Sciences

LS1 Molecules of Life: Biological Mechanisms, Structures and Functions

For all organisms: Molecular biology, biochemistry, structural biology, molecular biophysics, synthetic and chemical biology, drug design, innovative methods and modelling

- LS1_1 Macromolecular complexes including interactions involving nucleic acids, proteins, lipids and carbohydrates
- LS1_2 Biochemistry
- LS1_3 DNA and RNA biology
- LS1_4 Protein biology
- LS1_5 Lipid biology
- LS1_6 Glycobiology
- LS1_7 Molecular biophysics, biomechanics, bioenergetics
- LS1_8 Structural biology
- LS1_9 Molecular mechanisms of signalling processes
- LS1_10 Synthetic biology
- LS1_11 Chemical biology
- LS1_12 Protein design
- LS1_13 Early translational research and drug design
- LS1_14 Innovative methods and modelling in molecular, structural and synthetic biology

LS2 Integrative Biology: from Genes and Genomes to Systems

For all organisms: Genetics, epigenetics, genomics and other 'omics studies, bioinformatics, systems biology, genetic diseases, gene editing, innovative methods and modelling, 'omics for personalised medicine

- LS2_1 Genetics
- LS2_2 Gene editing
- LS2_3 Epigenetics
- LS2_4 Gene regulation
- LS2_5 Genomics
- LS2_6 Metagenomics
- LS2_7 Transcriptomics
- LS2_8 Proteomics
- LS2_9 Metabolomics
- LS2_10 Glycomics/Lipidomics
- LS2_11 Bioinformatics and computational biology
- LS2_12 Biostatistics
- LS2_13 Systems biology
- LS2_14 Genetic diseases
- LS2_15 Integrative biology for personalised medicine
- LS2_16 Innovative methods and modelling in integrative biology

LS3 Cellular, Developmental and Regenerative Biology

For all organisms: Structure and function of the cell, cell-cell communication, embryogenesis, tissue differentiation, organogenesis, growth, development, evolution of development, organoids, stem cells, regeneration, therapeutic approaches

- LS3_1 Cell cycle, cell division and growth
- LS3_2 Cell senescence, cell death, autophagy, cell ageing
- LS3_3 Cell behaviour, including control of cell shape, cell migration
- LS3_4 Cell junctions, cell adhesion, the extracellular matrix, cell communication
- LS3_5 Cell signalling and signal transduction, exosome biology

- LS3_6 Organelle biology and trafficking
- LS3_7 Mechanobiology of cells, tissues and organs
- LS3_8 Embryogenesis, pattern formation, morphogenesis
- LS3_9 Cell differentiation, formation of tissues and organs
- LS3_10 Developmental genetics
- LS3_11 Evolution of developmental strategies
- LS3_12 Organoids
- LS3_13 Stem cells
- LS3_14 Regeneration
- LS3_15 Development of cell-based therapeutic approaches for tissue regeneration
- LS3_16 Functional imaging of cells and tissues
- LS3_17 Theoretical modelling in cellular, developmental and regenerative biology

LS4 Physiology in Health, Disease and Ageing

Organ and tissue physiology, comparative physiology, physiology of ageing, pathophysiology, interorgan and tissue communication, endocrinology, nutrition, metabolism, interaction with the microbiome, non-communicable diseases including cancer (and except disorders of the nervous system and immunity-related diseases)

- LS4_1 Organ and tissue physiology and pathophysiology
- LS4_2 Comparative physiology
- LS4_3 Physiology of ageing
- LS4_4 Endocrinology
- LS4_5 Non-hormonal mechanisms of inter-organ and tissue communication
- LS4_6 Microbiome and host physiology
- LS4_7 Nutrition and exercise physiology
- LS4_8 Impact of stress (including environmental stress) on physiology
- LS4_9 Metabolism and metabolic disorders, including diabetes and obesity
- LS4_10 The cardiovascular system and cardiovascular diseases
- LS4_11 Haematopoiesis and blood diseases
- LS4_12 Cancer
- LS4_13 Other non-communicable diseases (except disorders of the nervous system and immunity-related diseases)

LS5 Neuroscience and Disorders of the Nervous System

Nervous system development, homeostasis and ageing, nervous system function and dysfunction, systems neuroscience and modelling, biological basis of cognitive processes and of behaviour, neurological and mental disorders

- LS5_1 Neuronal cells
- LS5_2 Glial cells and neuronal-glia communication
- LS5_3 Neural development and related disorders
- LS5_4 Neural stem cells
- LS5_5 Neural networks and plasticity
- LS5_6 Neurovascular biology and blood-brain barrier
- LS5_7 Sensory systems, sensation and perception, including pain
- LS5_8 Neural basis of behaviour
- LS5_9 Neural basis of cognition
- LS5_10 Ageing of the nervous system
- LS5_11 Neurological and neurodegenerative disorders
- LS5_12 Mental disorders
- LS5_13 Nervous system injuries and trauma, stroke
- LS5_14 Repair and regeneration of the nervous system
- LS5_15 Neuroimmunology, neuroinflammation
- LS5_16 Systems and computational neuroscience

LS5_17 Imaging in neuroscience

LS5_18 Innovative methods and tools for neuroscience

LS6 Immunity, Infection and Immunotherapy

The immune system, related disorders and their mechanisms, biology of infectious agents and infection, biological basis of prevention and treatment of infectious diseases, innovative immunological tools and approaches, including therapies

LS6_1 Innate immunity

LS6_2 Adaptive immunity

LS6_3 Regulation of the immune response

LS6_4 Immune-related diseases

LS6_5 Biology of pathogens (e.g. bacteria, viruses, parasites, fungi)

LS6_6 Infectious diseases

LS6_7 Mechanisms of infection

LS6_8 Biological basis of prevention and treatment of infection

LS6_9 Antimicrobials, antimicrobial resistance

LS6_10 Vaccine development

LS6_11 Innovative immunological tools and approaches, including therapies

LS7 Prevention, Diagnosis and Treatment of Human Diseases

Medical technologies and tools for prevention, diagnosis and treatment of human diseases, therapeutic approaches and interventions, pharmacology, preventative medicine, epidemiology and public health, digital medicine

LS7_1 Medical imaging for prevention, diagnosis and monitoring of diseases

LS7_2 Medical technologies and tools (including genetic tools and biomarkers) for prevention, diagnosis, monitoring and treatment of diseases

LS7_3 Nanomedicine

LS7_4 Regenerative medicine

LS7_5 Applied gene, cell and immune therapies

LS7_6 Other medical therapeutic interventions, including transplantation

LS7_7 Pharmacology and toxicology

LS7_8 Effectiveness of interventions, including resistance to therapies

LS7_9 Public health and epidemiology

LS7_10 Preventative and prognostic medicine

LS7_11 Environmental health, occupational medicine

LS7_12 Health care, including care for the ageing population

LS7_13 Palliative medicine

LS7_14 Digital medicine, e-medicine, medical applications of artificial intelligence

LS7_15 Medical ethics

LS8 Environmental Biology, Ecology and Evolution

For all organisms: Ecology, biodiversity, environmental change, evolutionary biology, behavioural ecology, microbial

ecology, marine biology, ecophysiology, theoretical developments and modelling

LS8_1 Ecosystem and community ecology, macroecology

LS8_2 Biodiversity

LS8_3 Conservation biology

LS8_4 Population biology, population dynamics, population genetics

LS8_5 Biological aspects of environmental change, including climate change

LS8_6 Evolutionary ecology

LS8_7 Evolutionary genetics

LS8_8 Phylogenetics, systematics, comparative biology

Annex 1

LS8_9 Macroevolution and paleobiology
LS8_10 Ecology and evolution of species interactions
LS8_11 Behavioural ecology and evolution
LS8_12 Microbial ecology and evolution
LS8_13 Marine biology and ecology
LS8_14 Ecophysiology, from organisms to ecosystems
LS8_15 Theoretical developments and modelling in environmental biology, ecology, and evolution

LS9 Biotechnology and Biosystems Engineering

Biotechnology using all organisms, biotechnology for environment and food applications, applied plant and animal sciences, bioengineering and synthetic biology, biomass and biofuels, biohazards

LS9_1 Bioengineering for synthetic and chemical biology
LS9_2 Applied genetics, gene editing and transgenic organisms
LS9_3 Bioengineering of cells, tissues, organs and organisms
LS9_4 Microbial biotechnology and bioengineering
LS9_5 Food biotechnology and bioengineering
LS9_6 Marine biotechnology and bioengineering
LS9_7 Environmental biotechnology and bioengineering
LS9_8 Applied plant sciences, plant breeding, agroecology and soil biology
LS9_9 Plant pathology and pest resistance
LS9_10 Veterinary and applied animal sciences
LS9_11 Biomass production and utilisation, biofuels
LS9_12 Ecotoxicology, biohazards and biosafety

Social Sciences and Humanities

SH1 Individuals, Markets and Organisations

Economics, finance, management

- SH1_1 Macroeconomics; monetary economics; economic growth
- SH1_2 International trade; international management; international business; spatial economics
- SH1_3 Development economics; structural change; political economy of development
- SH1_4 Finance; asset pricing; international finance; market microstructure
- SH1_5 Corporate finance; banking and financial intermediation; accounting; auditing; insurance
- SH1_6 Econometrics; operations research
- SH1_7 Behavioural economics; experimental economics; neuro-economics
- SH1_8 Microeconomic theory; game theory; decision theory
- SH1_9 Industrial organization; entrepreneurship; R&D and innovation
- SH1_10 Management; strategy; organizational behaviour
- SH1_11 Human resource management; operations management, marketing
- SH1_12 Environmental economics; resource and energy economics; agricultural economics
- SH1_13 Labour and demographic economics
- SH1_14 Health economics; economics of education
- SH1_15 Public economics; political economics; law and economics
- SH1_16 Historical economics; quantitative economic history; institutional economics; economic systems

SH2 Institutions, Governance and Legal Systems

Political science, international relations, law

- SH2_1 Political systems, governance
- SH2_2 Democratisation and social movements
- SH2_3 Conflict resolution, war, peace building, international law
- SH2_4 Legal studies, constitutions, human rights, comparative law
- SH2_5 International relations, global and transnational governance
- SH2_6 Humanitarian assistance and development
- SH2_7 Political and legal philosophy
- SH2_8 Big data in political and legal studies

SH3 The Social World and Its Diversity

Sociology, social psychology, social anthropology, education sciences, communication studies

- SH3_1 Social structure, social mobility, social innovation
- SH3_2 Inequalities, discrimination, prejudice
- SH3_3 Aggression and violence, antisocial behaviour, crime
- SH3_4 Social integration, exclusion, prosocial behaviour
- SH3_5 Attitudes and beliefs
- SH3_6 Social influence; power and group behaviour
- SH3_7 Kinship; diversity and identities, gender, interethnic relations
- SH3_8 Social policies, welfare, work and employment
- SH3_9 Poverty and poverty alleviation
- SH3_10 Religious studies, ritual; symbolic representation
- SH3_11 Social aspects of teaching and learning, curriculum studies, education and educational policies
- SH3_12 Communication and information, networks, media
- SH3_13 Digital social research

SH3_14 Social studies of science and technology

SH4 The Human Mind and Its Complexity

Cognitive science, psychology, linguistics, theoretical philosophy

SH4_1 Cognitive basis of human development and education, developmental disorders; comparative cognition

SH4_2 Personality and social cognition; emotion

SH4_3 Clinical and health psychology

SH4_4 Neuropsychology

SH4_5 Attention, perception, action, consciousness

SH4_6 Learning, memory; cognition in ageing

SH4_7 Reasoning, decision-making; intelligence

SH4_8 Language learning and processing (first and second languages)

SH4_9 Theoretical linguistics; computational linguistics

SH4_10 Language typology; historical linguistics

SH4_11 Pragmatics, sociolinguistics, linguistic anthropology, discourse analysis

SH4_12 Philosophy of mind, philosophy of language

SH4_13 Philosophy of science, epistemology, logic

SH5 Cultures and Cultural Production

Literary studies, cultural studies, study of the arts, philosophy

SH5_1 Classics, ancient literature and art

SH5_2 Theory and history of literature, comparative literature

SH5_3 Philology; text and image studies

SH5_4 Visual and performing arts, film, design and architecture

SH5_5 Music and musicology; history of music

SH5_6 History of art and architecture, arts-based research

SH5_7 Museums, exhibitions, conservation and restoration

SH5_8 Cultural studies, cultural identities and memories, cultural heritage

SH5_9 Metaphysics, philosophical anthropology; aesthetics

SH5_10 Ethics and its applications; social philosophy

SH5_11 History of philosophy

SH5_12 Computational modelling and digitisation in the cultural sphere

SH6 The Study of the Human Past

Archaeology and history

SH6_1 Historiography, theory and methods in history, including the analysis of digital data

SH6_2 Classical archaeology, history of archaeology, social archaeology

SH6_3 General archaeology, archaeometry, landscape archaeology

SH6_4 Prehistory, palaeoanthropology, palaeodemography, protohistory, bioarchaeology

SH6_5 Palaeography and codicology

SH6_6 Ancient history

SH6_7 Medieval history

SH6_8 Early modern history

SH6_9 Modern and contemporary history

SH6_10 Colonial and post-colonial history

SH6_11 Global history, transnational history, comparative history, entangled histories

SH6_12 Social and economic history

SH6_13 Gender history, cultural history, history of collective identities and memories, history of religions

SH6_14 History of ideas, intellectual history, history of economic thought

SH6_15 History of science, medicine and technologies

SH7 Human Mobility, Environment, and Space
Human geography, demography, health, sustainability science, territorial planning, spatial analysis

SH7_1 Human, economic and social geography

SH7_2 Migration

SH7_3 Population dynamics: households, family and fertility

SH7_4 Social aspects of health, ageing and society

SH7_5 Sustainability sciences, environment and resources

SH7_6 Environmental and climate change, societal impact and policy

SH7_7 Cities; urban, regional and rural studies

SH7_8 Land use and planning

SH7_9 Energy, transportation and mobility

SH7_10 GIS, spatial analysis; big data in geographical studies