

## **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, electro dialysis, 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  
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 organisation; entrepreneurship; R&D and innovation  
SH1\_10 Management; strategy; organisational 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