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**  
Astrophysics/-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, permafrost 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  **Cell Biology, Development, Stem Cells and Regeneration**

*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 signaling 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, inter-organ 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
– In humans and all other organisms

LS5_1 Neuronal cells
LS5_2 Glial cells and neuronal-glial 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 (e.g. sleep, consciousness, addiction)
LS5_9 Neural basis of cognition (e.g. learning, memory, attention, emotions, speech)
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 (e.g. modelling, simulation, brain oscillations, connectomics)
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, labour economics
SH1_2 International trade; international business; spatial economics
SH1_3 Development economics political economics
SH1_4 Finance; financial markets
SH1_5 Corporate finance; international finance
SH1_6 Banking, insurance
SH1_7 Accounting, asset prices, auditing
SH1_8 Econometrics, game theory, decision theory
SH1_9 Behavioural economics; experimental economics; neuro-economics
SH1_10 Microeconomics, industrial organisation, applied microeconomics
SH1_11 Innovation, research & development, entrepreneurship
SH1_12 Management; operations management, international management
SH1_13 Human resource management; organisational behaviour
SH1_14 Strategy, operation research
SH1_15 Marketing, consumer behaviour
SH1_16 Quantitative economic history, economic systems, institutional economics

**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
SH2_4 Legal studies, comparative law, law and economics
SH2_5 Constitutions, human rights, international law
SH2_6 International relations, global and transnational governance
SH2_7 Humanitarian assistance and development
SH2_8 Political and legal philosophy
SH2_9 Digital approaches to political science and law

**SH3  The Social World and Its Interactions**
Sociology, social psychology, 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 Social attitudes and beliefs
SH3_6 Social influence; power and group behaviour
SH3_7 Social policies, welfare, work and employment
SH3_8 Poverty and poverty alleviation
SH3_9 Social aspects of teaching and learning, curriculum studies, education and educational policies
SH3_10 Communication and information, networks, media
SH3_11 Digital social research
SH3_12 Social studies of science and technology

**SH4  The Human Mind and Its Complexity**
Cognitive science, psychology, linguistics

SH4_1 Cognitive basis of human development, developmental disorders; comparative cognition
SH4_2 Personality and social cognition; emotion
SH4_3 Clinical and health psychology
SH4 - Neurocognitive psychology
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

SH5 - Texts and Concepts
Literary studies, literature, philosophy

SH5.1 - Classics, ancient literature
SH5.2 - Theory and history of literature, comparative literature
SH5.3 - Book studies
SH5.4 - Philology; text and image studies
SH5.5 - Paleography and codicology
SH5.6 - Philosophy of mind, philosophy of language
SH5.7 - Philosophy of science, epistemology, logic
SH5.8 - Metaphysics, philosophical anthropology; aesthetics
SH5.9 - Ethics and its applications; social philosophy
SH5.10 - History of philosophy
SH5.11 - Digital humanities; digital approaches to literary studies and philosophy

SH6 - The Study of the Human Past
Archaeology and history

SH6.1 - Archaeological methods and theory, history of archaeology
SH6.2 - Prehistoric archaeology, archaeology of non-literate societies
SH6.3 - Archaeology of early literate societies and early civilizations
SH6.4 - Medieval and post-medieval archaeologies
SH6.5 - Archaeological science, bioarchaeology, environmental archaeology, geoarchaeology
SH6.6 - Digital, computational, virtual and geospatial archaeologies
SH6.7 - Historiography, theory and methods of history, including the analysis of digital data
SH6.8 - Ancient history, medieval history
SH6.9 - Early modern, modern, and contemporary history
SH6.10 - Colonial and post-colonial history
SH6.11 - Global, transnational, and comparative history
SH6.12 - Social and economic history
SH6.13 - Cultural history, intellectual history
SH6.14 - History of science and technologies, environmental history

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, ecosystem services
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; digital geography
**SH8**  *Studies of Cultures and Arts*
Social anthropology, studies of cultures, studies of arts

**SH8_1**  Kinship; diversity and identities, gender, interethnic relations
**SH8_2**  Religious studies, ritual; symbolic representation
**SH8_3**  Cultural studies and theory, cultural identities and memories, cultural heritage
**SH8_4**  Museums, exhibitions, conservation and restoration
**SH8_5**  History of art and of architecture
**SH8_6**  Architecture, design, craft, creative industries
**SH8_7**  Music and musicology; history of music
**SH8_8**  Visual and performing arts, screen, arts-based research
**SH8_9**  Digital approaches to anthropology, cultural studies and art