

Ambiti di ricerca definiti dall'European Research Council

LIVELLO 1	Livello 2	Livello 3
PHYSICAL SCIENCES AND ENGINEERING	<p>PE1 Mathematics</p> <p>All areas of mathematics, pure and applied, plus mathematical foundations of computer science, mathematical physics and statistics</p>	<p>PE1_1 Logic and foundations</p> <p>PE1_2 Algebra</p> <p>PE1_3 Number theory</p> <p>PE1_4 Algebraic and complex geometry</p> <p>PE1_5 Lie groups, Lie algebras</p> <p>PE1_6 Geometry and global analysis</p> <p>PE1_7 Topology</p> <p>PE1_8 Analysis</p> <p>PE1_9 Operator algebras and functional analysis</p> <p>PE1_10 ODE and dynamical systems</p> <p>PE1_11 Theoretical aspects of partial differential equations</p> <p>PE1_12 Mathematical physics</p> <p>PE1_13 Probability</p> <p>PE1_14 Mathematical statistics</p> <p>PE1_15 Generic statistical methodology and modelling</p> <p>PE1_16 Discrete mathematics and combinatorics</p> <p>PE1_17 Mathematical aspects of computer science</p> <p>PE1_18 Numerical analysis</p> <p>PE1_19 Scientific computing and data processing</p> <p>PE1_20 Control theory, optimisation and operational research</p> <p>PE1_21 Application of mathematics in sciences</p> <p>PE1_22 Application of mathematics in industry and society</p>
	<p>PE2 Fundamental Constituents of Matter</p> <p>Particle, nuclear, plasma, atomic, molecular, gas, and optical physics</p>	<p>PE2_1 Theory of fundamental interactions</p> <p>PE2_2 Phenomenology of fundamental interactions</p> <p>PE2_3 Experimental particle physics with accelerators</p> <p>PE2_4 Experimental particle physics without accelerators</p> <p>PE2_5 Classical and quantum physics of gravitational interactions</p> <p>PE2_6 Nuclear, hadron and heavy ion physics</p> <p>PE2_7 Nuclear and particle astrophysics</p> <p>PE2_8 Gas and plasma physics</p> <p>PE2_9 Electromagnetism</p> <p>PE2_10 Atomic, molecular physics</p> <p>PE2_11 Ultra-cold atoms and molecules</p> <p>PE2_12 Optics, non-linear optics and nano-optics</p> <p>PE2_13 Quantum optics and quantum information</p> <p>PE2_14 Lasers, ultra-short lasers and laser physics</p> <p>PE2_15 Thermodynamics</p> <p>PE2_16 Non-linear physics</p> <p>PE2_17 Metrology and measurement</p> <p>PE2_18 Equilibrium and non-equilibrium statistical mechanics: steady states and dynamics</p>
	<p>PE3 Condensed Matter Physics</p> <p>Structure, electronic properties, fluids, nanosciences, biological physics</p>	<p>PE3_1 Structure of solids, material growth and characterisation</p> <p>PE3_2 Mechanical and acoustical properties of condensed matter, lattice dynamics</p> <p>PE3_3 Transport properties of condensed matter</p> <p>PE3_4 Electronic properties of materials, surfaces, interfaces, nanostructures</p> <p>PE3_5 Physical properties of semiconductors and insulators</p> <p>PE3_6 Macroscopic quantum phenomena, e.g. superconductivity, superfluidity, quantum Hall effect</p> <p>PE3_7 Spintronics</p> <p>PE3_8 Magnetism and strongly correlated systems</p> <p>PE3_9 Condensed matter – beam interactions (photons, electrons, etc.)</p> <p>PE3_10 Nanophysics, e.g. nanoelectronics, nanophotonics, nanomagnetism, nanoelectromechanics</p> <p>PE3_11 Mesoscopic quantum physics and solid-state quantum</p>

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		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, electroanalysis, 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, cryptography, 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

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		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

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

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	approaches	LS3_10 LS3_11 LS3_12 LS3_13 LS3_14 LS3_15 LS3_16 LS3_17	Developmental genetics Evolution of developmental strategies Organoids Stem cells Regeneration Development of cell-based therapeutic approaches for tissue regeneration Functional imaging of cells and tissues 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 LS4_2 LS4_3 LS4_4 LS4_5 LS4_6 LS4_7 LS4_8 LS4_9 LS4_10 LS4_11 LS4_12 LS4_13	Organ and tissue physiology and pathophysiology Comparative physiology Physiology of ageing Endocrinology Non-hormonal mechanisms of inter-organ and tissue communication Microbiome and host physiology Nutrition and exercise physiology Impact of stress (including environmental stress) on physiology Metabolism and metabolic disorders, including diabetes and obesity The cardiovascular system and cardiovascular diseases Haematopoiesis and blood diseases Cancer 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 LS5_2 LS5_3 LS5_4 LS5_5 LS5_6 LS5_7 LS5_8 LS5_9 LS5_10 LS5_11 LS5_12 LS5_13 LS5_14 LS5_15 LS5_16 LS5_17 LS5_18	Neuronal cells Glial cells and neuronal-glia communication Neural development and related disorders Neural stem cells Neural networks and plasticity Neurovascular biology and blood-brain barrier Sensory systems, sensation and perception, including pain Neural basis of behaviour Neural basis of cognition Ageing of the nervous system Neurological and neurodegenerative disorders Mental disorders Nervous system injuries and trauma, stroke Repair and regeneration of the nervous system Neuroimmunology, neuroinflammation Systems and computational neuroscience Imaging in neuroscience 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 LS6_2 LS6_3 LS6_4 LS6_5 LS6_6 LS6_7 LS6_8 LS6_9 LS6_10 LS6_11	Innate immunity Adaptive immunity Regulation of the immune response Immune-related diseases Biology of pathogens (e.g. bacteria, viruses, parasites, fungi) Infectious diseases Mechanisms of infection Biological basis of prevention and treatment of infection Antimicrobials, antimicrobial resistance Vaccine development 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	LS7_1 LS7_2 LS7_3 LS7_4 LS7_5 LS7_6	Medical imaging for prevention, diagnosis and monitoring of diseases Medical technologies and tools (including genetic tools and biomarkers) for prevention, diagnosis, monitoring and treatment of diseases Nanomedicine Regenerative medicine Applied gene, cell and immune therapies Other medical therapeutic interventions, including transplantation

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	health, digital medicine	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 <i>For all organisms:</i> 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
<u>SOCIAL SCIENCES AND HUMANITIES</u>	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

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	<p>SH2 Institutions, Governance and Legal Systems Political science, international relations, law</p>	<p>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</p>
	<p>SH3 The Social World and Its Diversity Sociology, social psychology, social anthropology, education sciences, communication studies</p>	<p>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</p>
	<p>SH4 The Human Mind and Its Complexity Cognitive science, psychology, linguistics, theoretical philosophy</p>	<p>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</p>
	<p>SH5 Cultures and Cultural Production Literary studies, cultural studies, study of the arts, philosophy</p>	<p>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</p>
	<p>SH6 The Study of the Human Past Archaeology and history</p>	<p>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</p>

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