

**10**      **Biologic sciences**

**100**    **From molecule to cell**

- 1000    Biochemistry
  - 10000    Biochemistry of plants
  - 10001    Biochemistry of animals
  - 10002    Microbial biochemistry
- 1001    Cellular Biology
- 1002    Genetics, cytogenetics
- 1003    Molecular biophysics
- 1004    Molecular biology
  - 10040    Molecular biology of plants
  - 10041    Molecular biology of animals
  - 10042    Microbial molecular biology
- 1005    Molecular genetics
  - 10050    Molecular genetics of plants
  - 10051    Molecular genetics of animals
  - 10052    Microbial molecular genetics
- 1006    Protein chemistry and enzymology
- 1007    Posttranslational modifications
- 1008    Signal transduction (bio)
- 1009    Structural biology
- 1010    Systems biology
- 1011    Synthetic biology

**110**    **From cell to individual**

- 1100    Bacteriology
- 1101    Intercellular biochemistry of animals
- 1102    Intercellular biochemistry of plants

- 1103 Animal genetics
- 1104 Plant genetics
- 1105 Embryology
- 1106 Physiology
  - 11060 Cell physiology
  - 11061 Electrophysiology
  - 11062 Microbial physiology
  - 11063 Plant physiology
  - 11064 Animal physiology
  - 11065 Behavioural physiology
- 1107 Histology
- 1108 Metabolism and homeostasis
- 1109 Microbiology
- 1110 Molecular developmental biology
- 1111 Morphology
  - 11110 Animal morphology
  - 11111 Plant morphology
- 1112 Mycology
- 1113 Neurobiology
- 1114 Developmental biology of animals and plants
- 1115 Stem cell biology
- 1116 Virology

**120 From individual to ecosystem**

- 1200 Chronobiology
- 1201 (Molecular) phylogenetics
- 1202 Biogeography
- 1203 Ecology

- 12030 Auto-ecology
- 12031 Chemical and physical ecology
- 12032 Animal ecology
- 12033 Plant ecology
- 12034 Microbial ecology
- 12035 Behavioural ecology
- 12036 Community ecology
- 12037 Global ecology
- 12038 Landscape ecology
- 12039 Marine ecology
- 1204 Ecological physiology
  - 12040 Terrestrial ecology
- 1205 Eco-toxicology
- 1206 Evolutionary biology
- 1207 Functional and ecological morphology
- 1208 Fytopathology
- 1209 Host-microorganism interactions
- 1210 Behavioural biology
- 1211 Invasion biology
- 1212 Limnology
- 1213 Paleontology and paleo-ecology
- 1214 Parasitology
- 1215 Population biology and genetics
- 1216 Taxonomy

**130 Applied biological sciences**

- 1300 Agrochemistry
- 1301 Aquaculture and fisheries

- 1302 Bio-energy production
- 1303 Bioprocess technology
- 1304 Bioremediation
- 1305 Soil science and management
- 1306 Forestry
- 1307 Chemistry and technology of natural products
- 1308 Animal production
- 1309 Enzyme technology
- 1310 Fermentation technology
- 1311 Crop protection
- 1312 Industrial biotechnology and microbiology
- 1313 Agriculture and horticulture
- 1314 Agricultural technology
- 1315 Food
  - 13150 Food biochemistry
  - 13151 Food microbiology
  - 13152 Food technology
  - 13153 Food science
- 1316 Environmental (bio)technology
- 1317 Environmental chemistry
- 1318 Plant production
- 1319 Plant biotechnology
- 1320 Applied ecology
- 1321 Applied food science
- 1322 Plant and animal breeding

**140 Development of methods and techniques**

- 1400 Bio-imaging

- 1401 Bioinformatics
- 1402 Biostatistics
- 1403 Biotechnology
- 1404 Computational biology
- 1405 DNA analysis technology
- 1406 Downstream processing
- 1407 Genetic engineering
- 1408 Molecular modelling
- 1409 Omics
  - 14090 Genomics
  - 14091 Proteomics
  - 14092 Metabolomics
  - 14093 Lipidomics
- 1410 Transgenesis

**20 Humanities**

**200 Linguistics**

- 2000 Linguistics of specific languages
  - 20000 Germanic linguistics
  - 20001 Romance linguistics
  - 20002 Slavic linguistics
  - 20003 African linguistics
  - 20004 Oriental linguistics
- 2001 Phonetics and phonology
- 2002 Morphology
- 2003 Syntax
- 2004 Semantics and Pragmatics
- 2005 Pragmatics

- 2006 Synchronic linguistics
- 2007 Diachronic linguistics
- 2008 Contrastive linguistics
- 2009 Dialectology
- 2010 Typology
- 2011 Contact linguistics
- 2012 Mathematical and computational linguistics
- 2013 Corpus linguistics
- 2014 Psycholinguistics and neurolinguistics
- 2015 Discourse analysis
- 2016 Text linguistics
- 2017 Sociolinguistics
- 2018 Language didactics
- 2019 Lexicology and Lexicography
- 2020 Onomastics
- 2021 Translation science
- 2022 History of linguistics
- 2023 Theory and methodology of linguistics

**210 Literary studies**

- 2100 Literature of Germanic languages
  - 21000 Dutch literature
  - 21001 English literature
  - 21002 German literature
- 2101 Literature of Romance languages
  - 21010 French literature
  - 21011 Spanish literature
  - 21012 Italian literature

- 2102 Literature of Classical languages
  - 21020 Greek literature
  - 21021 Latin literature
- 2103 Baltic and Slavic literature
  - 21030 Russian literature
  - 21031 West-Slavic literature
  - 21032 South-Slavic literature
- 2104 Literature of Asia
  - 21040 Chinese literature
  - 21041 Japanese literature
- 2105 Literature of the Near-East
  - 21050 Arabic literature
- 2106 Literature of Africa
- 2107 Literary history
  - 21070 Classical literature
  - 21071 Medieval literature (5th-15th century)
  - 21072 Early Modern literature (16th-18th century)
  - 21073 Modern literature (19th-20th century)
- 2108 Contemporary literature
- 2109 Literary theory
  - 21090 Narratology
  - 21091 Rhetoric
  - 21092 Poetics
  - 21093 Psychology of literature
- 2110 Comparative literature
- 2111 Text edition and editorial science; book science
- 2112 Literary translation studies

- 2113 Literature and society
  - 21130 Oral literature
  - 21131 Sociology of literary texts
  - 21132 Gender and literature
  - 21133 Queer studies
  - 21134 Postcolonial studies
- 2114 Literature and other arts

**220 Arts and arts sciences**

- 2200 Arts sciences
  - 22000 Musicology
  - 22001 Art criticism
  - 22002 Art theory
  - 22003 Iconology
  - 22004 Curatorship
- 2201 Arts
  - 22010 Arts - general
  - 22011 Free arts
  - 22012 Music
  - 22013 Performing arts
  - 22014 Audiovisual arts
  - 22015 Photography

**230 Historical Sciences**

- 2300 History
  - 23000 Cultural history
  - 23001 Socio-economic history
  - 23002 Political history
  - 23003 Landscape and ecological history



- 23004 History of science
- 23005 World history
- 2301 Archaeology
  - 23010 Archaeology of human culture
  - 23011 Archaeology of landscape
  - 23012 Archaeology of material culture
- 2302 Art and music history
  - 23020 General art and music history
  - 23021 History of architecture
  - 23022 History of plastic arts
  - 23023 History of music and performing arts
  - 23024 History of audiovisual arts
- 2303 Study of specific periods
  - 23030 Diachronic research
  - 23031 Prehistory and protohistory
  - 23032 Middle-East and Near-East (pre-islamic)
  - 23033 Classical Antiquity
  - 23034 Middle Ages (6th-15th century)
  - 23035 Early Modern Period (16th-18th century)
  - 23036 Modern and Contemporary Period (19th-21st century)
- 2304 Theory of historical sciences
- 2305 Development of methods and techniques (archaeometry, paleography, diplomatics, ...)
- 2306 Historiography
- 2307 Patrimony and public
- 240 Philosophy**
  - 2400 Philosophy: historical approach
  - 2401 Philosophy: systematic approach

- 2402 Philosophy
  - 24020 Philosophical logic
  - 24021 Philosophy of language
  - 24022 Philosophy of science
  - 24023 Metaphysics
  - 24024 Epistemology
  - 24025 Ethics
  - 24026 Aesthetics
  - 24027 Social and political philosophy
  - 24028 Philosophy of law
  - 24029 Philosophy of religion
- 2403 Moral sciences
  - 24030 Cultural philosophy
- 2404 Philosophy of science
  - 24040 Philosophy of the alpha sciences
  - 24041 Philosophy of the beta sciences
  - 24042 Philosophy of the gamma sciences

**250 Theology and religious studies**

- 2500 Theology
  - 25000 Bible studies
  - 25001 History of religions, churches and theology
  - 25002 Fundamental and systematic theology
  - 25003 Theological ethics
  - 25004 Practical theology
- 2501 Religious studies
  - 25010 Theory of religious studies
  - 25011 Empirical religious studies

- 25012 Comparative religious studies
- 2502 Study of religious and ideological traditions
  - 25020 Judaic and Christian traditions
  - 25021 Other religious and ideological traditions

**260 Study of regions**

- 2600 Transregional studies
  - 26000 Comparative study of regions
- 2601 Europe
  - 26010 Central Europe
  - 26011 Western Europe
  - 26012 Eastern Europe
  - 26013 Southern Europe
  - 26014 Northern Europe
- 2602 Asia
  - 26020 Central Asia
  - 26021 South Asia
  - 26022 South-East Asia
  - 26023 East Asia
  - 26024 Western Asia/Middle East
- 2603 America
  - 26030 North America
  - 26031 Central America
  - 26032 South America
- 2604 Africa
  - 26040 North Africa
  - 26041 Central Africa
  - 26042 West Africa

26043 East Africa

26044 Southern Africa

2605 Oceania

**30 Social Sciences**

**300 Law**

3000 Civil law

3001 Constitutional and administrative law

3002 Tax law

3003 Fundamental rights and freedoms

3004 Commercial, economic and financial law

3005 Intellectual rights

3006 International private law

3007 International law, European law and development law

3008 Judicial law

3009 Social law

3010 Criminal and procedural law

3011 Legal theory, methodology of law and legislative studies

3012 Comparative law

3013 Metalaw

30130 Philosophy of law

30131 Philosophy of law

30132 Sociology of law

30133 Psychology of law

30134 Legal language and linguistics

30135 Roman law

3014 Medical and health law

3015 Youth law

- 3016 Media and communication law
- 3017 Environmental law
- 3018 Sports law
- 3019 Technology law
- 3020 Canonical law and law of religion

**310 Criminology**

- 3100 Historical criminology and theory formation in criminology
  - 31000 "Historical developments regarding crime phenomena and societal reactions on them"
  - 31001 Theoretical perspectives and paradigms
- 3101 Criminography and methods of criminological investigation
  - 31010 Phenomenological analyses of criminality, perpetrators and victims
  - 31011 Perception and attitudes research regarding (un)safety and criminality
- 3102 Youth criminology and life course criminology
  - 31020 youth criminality
  - 31021 "Specific approach and treatment of juvenile delinquents and problematic youth"
  - 31022 Life course research
- 3103 Safety, prevention and police
  - 31030 Societal safety
  - 31031 Models, processes, practices and policies of crime prevention
  - 31032 Public and private forms of police
  - 31033 Models, processes and practices of tracing crime
  - 31034 Organization, management and policy in (public and private) police
- 3104 Punishment and criminal justice
  - 31040 Models, processes and practices of crime persecution

- 31041 Models, processes and practices of justice administration
- 31042 Models, processes and practices of sentence execution
- 31043 Victims and victim policies
- 31044 Criminal justice organization, management and policy

**320 Economics**

- 3200 General economics
  - 32000 Schools of economic thought and methodology
    - 32001 Methodology of economics
    - 32002 Economical systems, institutions and economy
  - 3201 Mathematical and quantitative economic methods
    - 32010 Econometry
    - 32011 Mathematical methods and programming in economy
    - 32012 Game theory
    - 32013 Operational research
  - 3202 Micro-economics
    - 32020 Production theory
    - 32021 Consumption theory
    - 32022 Markets, market structures and price formation, industrial organization
    - 32023 Welfare economics
  - 3203 Macro-economics
    - 32030 Building blocks: consumption and saving, investment, employment and production
    - 32031 Economic growth and technological change
    - 32032 Business cycle analysis, wages and prices
    - 32033 Macro-economic policy
  - 3204 Domains of general economics
    - 32040 International economics, economical integration

- 32041 Monetary economics
- 32042 Financial institutions and markets
- 32043 Public economics, public finance
- 32044 Health, education and sports economics
- 32045 Labour economics, social economics, demographical economics
  
- 32046 Transport economics
- 32047 Environmental and ecological economics
- 32048 Agricultural economics, development economics
- 32049 Urban, rural and regional economics
- 3205 Business administration
  - 32050 "General management, strategic management, organization theory, corporate governance"
  - 32051 Marketing, marketing modelling
  - 32052 Accounting, audit and management control
  - 32053 International business and international management
  - 32054 Corporate finance
  - 32055 Entrepreneurship, innovation management
  - 32056 HR management, staff management
  - 32057 Public management, not for profit management
  - 32058 Sports and cultural management
- 3206 Management science
  - 32060 Production management, service management
  - 32061 Logistics and supply chain management
  - 32062 Project management
  - 32063 Management information systems

**330 Psychology**

- 3300 General psychology

- 33000 History of psychology
- 33001 Philosophical psychology
- 33002 Psychoanalysis
- 3301 Psychometrics, statistics and methodology
  - 33010 Psychological tests and testing
  - 33011 Statistics and mathematics in psychology
  - 33012 Research methods and experimental design in psychology
- 3302 Human experimental psychology
  - 33020 Attention, perception, motor processes and action
  - 33021 Cognition, language and memory
  - 33022 Learning, motivation and emotion
- 3303 Cognitive science and artificial intelligence
- 3304 Experimental and comparative animal psychology
- 3305 "Biological and physiological psychology, affective, behavioral and cognitive neuroscience"
  - 33050 Biological psychology
  - 33051 Genetics and behavior
  - 33052 Neuropsychology
  - 33053 Psychophysiology
  - 33054 Psychopharmacology
  - 33055 Neuroimaging
- 3306 Developmental psychology
  - 33060 Cognitive and perceptual development
  - 33061 Psychosocial and personality development
  - 33062 Psychogerontology
- 3307 Social psychology
  - 33070 Group and interpersonal processes



- 33071 Social perception and cognition
- 3308 Cross-cultural psychology
- 3309 Personality psychology
- 3310 Psychopathology
  - 33100 Experimental psychopathology
  - 33101 Developmental psychopathology
- 3311 Psychotherapy
- 3312 Clinical psychology
- 3313 Health psychology
- 3314 Forensic psychology
- 3315 Educational psychology and school psychology
- 3316 Industrial and organizational psychology
  - 33160 Personnel psychology
  - 33161 Organizational behavior
  - 33162 Ergonomics
- 3317 Consumer psychology
- 3318 Sports psychology
- 3319 Engineering and environmental psychology
- 3320 Psychoesthetics
- 3321 Other areas of applied psychology

**340 Pedagogy and educational sciences**

- 3400 Pedagogy, education
  - 34000 History of education
  - 34001 Intercultural, comparative and global education
  - 34002 Philosophy of education
- 3401 Social work, social pedagogy, social education
  - 34010 Civic learning and community development

- 34011 Social care, social welfare
- 34012 Informal learning
- 3402 Parenting and family education
- 3403 Orthopedagogy and special education
  - 34030 Special needs education
    - 34031 Disabilities and developmental disorders
    - 34032 Behavioural and emotional problems
    - 34033 Orthopedagogical assessment, child & family welfare, residential care, family support
- 3404 Cultural agogics
  - 34040 Cultural education
  - 34041 Arts education
  - 34042 Media education
  - 34043 Multiple literacy
  - 34044 E-culture studies
  - 34045 Cultural participation
  - 34046 Pedagogy of sports
- 3405 Instructional sciences
  - 34050 Instructional sciences - microlevel: learning objectives workforms, learning content, media, assessment & evaluation
  - 34051 "Instructional sciences - mesolevel: school effectiveness, school evaluation, school development, school support, school guidance, school management, school curriculum"
  - 34052 Instructional sciences - macrolevel: educational reform, educational policies, educational economy, sociology of education, national curriculum, educational law
  - 34053 Instructional psychology'; 'learning and instruction', 'instructional design'
  - 34054 Didactics of school subjects

34055 Teacher training

34056 vocational education, professional training, lifelong learning

34057 Educational technology

3406 Methodology of pedagogical and educational research

**350 sociology**

3500 Methodology and research technology of the social sciences

35000 Methodology (conceptual & epistemological); research methods and tools

35001 Statistical methods, mathematical models and computer methods

35002 Planning & forecasting, social indicators, and policy sciences

3501 Sociological theory and the sociology of knowledge

35010 Sociological theory, the history of sociology,

35011 Sociology of science and technology

35012 Sociology of religion

35013 Sociology of knowledge

35014 Radical & critical sociology, feminist studies

3502 Cultural Sociology

35020 Sociology of language

35021 Sociology of art and literature

3503 Sociological social psychology and group interactions

35030 Interaction within (small) groups; personality & social roles

35031 Interpretive sociologies, symbolic interactionism, & ethnomethodology

35032 Life cycle research

35033 "Social group identity & intergroup relations

(groups based on race & ethnicity, age, & sexual orientation) "

3504 Complex organizations

35040 Jobs, work organization, workplaces, & unions

- 35041 Bureaucratic structure/organizational sociology
- 35042 Sociology of business & entrepreneurship
- 35043 Voluntary associations
- 3505 Mass phenomena
  - 35050 Public opinion
  - 35051 Collective behavior
  - 35052 Sociology of leisure/tourism, sociology of sports, popular culture
  - 35053 Market structures & consumer behavior, economic sociology
- 3506 Differentiation and stratification
  - 35060 Social differentiation, stratification, and social mobility
  - 35061 Sociology of social class, occupations & professions
  - 35062 Sociology of education
  - 35063 Sociology of gender & gender relations
- 3507 The family and socialization, demography and human biology
  - 35070 Sociology of the child, adolescence & youth
  - 35071 Sociology of the family and living arrangements
  - 35072 Socialization
  - 35073 "Sociology of sexual behavior; birth control  
(abortion, contraception, fertility, & childbearing, genetic  
engineering/reproductive biotechnology) "
  - 35074 Sociology of death & dying
  - 35075 Generations/intergenerational relations
  - 35076 Demography (population studies)
  - 35077 Human biology, social biology
- 3508 Sociology of health and medicine
  - 35080 Sociology of medicine & health care
  - 35081 Sociology of health & illness

- 35082 Social psychiatry, mental health, substance use/abuse & compulsive behaviors
- 35083 Social epidemiology
- 3509 Social problems
  - 35090 Social problems, social work, social welfare, social gerontology
  - 35091 Studies in poverty and homelessness
  - 35092 Studies in violence, terrorism, and genocide
  - 35093 Refugees, disaster studies, famine
- 3510 Macrosociology and social geography
  - 35100 Comparative & historical sociology
  - 35101 Sociology of political systems, politics, & power, nationalism, political sociology
  - 35102 The welfare state and comparative social policy
  - 35103 Social movements
  - 35104 "Social geography, sociology of communities & regions, rural and urban sociology  
& environmental interactions"

**360 Political science**

- 3600 International Politics
  - 36000 Peace and Security
  - 36001 International Political Economy
  - 36002 International Institutions and Regimes
  - 36003 Development Studies
- 3601 Political Organisations and Institutions
  - 36010 Public Administration
  - 36011 Interest Group Politics
  - 36012 Party Politics
  - 36013 Executive and Legislative Politics
  - 36014 Judicial Politics

- 3602 Political Behaviour
  - 36020 Voting Behaviour, Election Studies, Public Opinion
  - 36021 Political Communication
  - 36022 Political Psychology
  - 36023 Collective Choice and Common Goods
  - 36024 Public Policy
- 3603 Comparative Politics
  - 36030 Belgian Politics
  - 36031 European Union Politics
  - 36032 Politics in Developed Countries
  - 36033 Politics in Development Countries
- 3604 Multilevel Governance
  - 36040 Local and Urban Politics
  - 36041 Federalism
- 3605 Political Theory
- 3606 Gender and Politics
- 3607 Research methods in political sciences

**370 Communication Science**

- 3700 Information science
- 3701 Communication research methodology
- 3702 Communication management
- 3703 Cultural media studies
- 3704 Film and television studies
- 3705 Gender and media studies
- 3706 ICT (Information and communication technologies) research
- 3707 Intercultural communication
- 3708 International communication

- 3709 Interpersonal communication
- 3710 Journalism studies
- 3711 Media and communication history
- 3712 Media and communication policy
- 3713 Media and communication theory and philosophy
- 3714 Media education
- 3715 Media effects
- 3716 Media sociology
- 3717 Political economy of the media and communication
- 3718 Science and health communication
- 3719 Visual communication

**380 Anthropology**

- 3800 Social and cultural anthropology
  - 38000 Anthropology of economy and development
  - 38001 Anthropology of religion
  - 38002 Anthropological theory
  - 38003 Cognitive anthropology
  - 38004 Ecological anthropology
  - 38005 Ethnicity and migration studies
  - 38006 Medical anthropology (including psychological anthropology, transcultural psychiatry, ageing and culture studies)
  - 38007 Political and legal anthropology
  - 38008 Sexual anthropology
  - 38009 Urban anthropology
- 3801 Physical anthropology
  - 38010 Visual anthropology
  - 38011 African studies
  - 38012 Area studies

38013 Cultural studies

38014 Postcolonial studies

**40 Medical Sciences**

**400 Biological and Medical Basic Sciences**

4000 Medical anatomy and morphology

4001 Medical biochemistry

4002 Medical celbio-Imaging

4003 Medical bioinformatics and theoretical biology

4004 Diagnostics and biomarkers

4005 Medical biomechanics

4006 Medical biometry

4007 Medical biophysics

4008 Medical cell biology

4009 Medical developmental biology

4010 Medical genetics

4011 Medical genomics

4012 Medical histology

4013 Medical immunology

4014 Medical microbiology

4015 Medical nanotechnology

4016 Medical physiology

4017 Medical proteomics

4018 Medical structural biology

4019 Medical systems biology

4020 Gene therapy

**410 Organs and organ systems**

4100 Cardiovascular sciences



- 4101 Dentistry and maxillofacial medicine
- 4102 Dermatology
- 4103 Endocrinology and diabetes
- 4104 Gastro-enterology
- 4105 Gynaecology & obstetrics
- 4106 Hematology
- 4107 Hepatology
- 4108 Musculo-skeletal systems and rheumatology
- 4109 Nephrology
- 4110 Neurology and neurosciences
- 4111 Ophthalmology
- 4112 Otorhinolaryngology
- 4113 Pneumology
- 4114 Psychiatry and Psychotherapy
- 4115 Reproductive Systems
- 4116 Urology

**420 Non-organ-related specialisms**

- 4200 Allergology
- 4201 Anaesthesiology
- 4202 Bioethics
- 4203 Clinical chemistry and pathological biochemistry
- 4204 Clinical research
- 4205 Clinical trials
- 4206 Epidemiology
- 4207 General Medicine
- 4208 Bio-gerontology and geriatrics
- 4209 Intensive care medicine

- 4210 Medical imaging
- 4211 Movement & rehabilitation Sciences
- 4212 Nuclear medicine
- 4213 Nursing
- 4214 Nutrition
- 4215 Metabolic diseases and obesity
- 4216 Oncology
- 4217 Orthopaedics, traumatology
- 4218 Palliative care and end of life care
- 4219 Pathology & forensic medicine
- 4220 Pediatrics and Neonatology
- 4221 Preventive Medicine
- 4222 Primary care
- 4223 Public Health, Health Care
- 4224 Radiotherapy
- 4225 Regenerative medicine and stem cell research
- 4226 Surgery
- 4227 Transplantation
- 4228 Speech, language and hearing research

**430 Pharmaceutical Sciences**

- 4300 Biomarkers
- 4301 Dermato-cosmetics
- 4302 Drug discovery and development: biopharmaceuticals & vaccines
- 4303 Drug discovery and development: small molecules
- 4304 Medicinal and pharmaceutical chemistry
- 4305 Nanotechnology
- 4306 Pharmaceutical analysis and quality

- 4307 Pharmaceutical care
- 4308 Pharmaceutical technology
- 4309 Pharmacognosy and phytochemistry
- 4310 Pharmacology
- 4311 Toxicology (in vitro & in vivo)

**440 Veterinary**

- 4400 Veterinary Embryology, Reproduction and Genetics
- 4401 Animal Nutrition and Housing
- 4402 Clinical Veterinary Medicine
- 4403 Veterinary Epidemiology
- 4404 Veterinary Conservation Medicine, Preventive Medicine and Hygiene
- 4405 Veterinary Ethology
- 4406 Veterinary virology, bacteriology, mycology and parasitology
- 4407 Veterinary Morphology and Pathology
- 4408 Veterinary Pharmacology and Toxicology
- 4409 Veterinary Physiology, Pathophysiology and Biochemistry
- 4410 Veterinary Public Health

**50 Science and Technology**

**500 Mathematics**

- 5000 Foundations of mathematics and logic
- 5001 Number theory and algebraic geometry
- 5002 Differential geometry
- 5003 Differential equations and mathematical physics
- 5004 Combinatorics, finite geometry, and discrete mathematics
- 5005 Algebra
- 5006 Topology
- 5007 Algorithms and computational mathematics

- 5008 Numerical analysis
- 5009 Probability theory
- 5010 Statistics
- 5011 Operations research
- 5012 Financial mathematics
- 5013 Cryptography and coding theory
- 5014 Mathematical modelling
- 5015 Classical analysis
- 5016 Functional analysis

**510 Physics**

- 5100 General
  - 51000 Mathematical physics
  - 51001 Quantum mechanics, field theories, and special relativity
  - 51002 General relativity and gravitation
  - 51003 Statistical physics, thermodynamics, and nonlinear dynamical systems
- 5101 The Physics of Elementary Particles and Fields
  - 51010 Fundamental theory of elementary particles and fields
  - 51011 Phenomenological description of elementary particles and fields
  - 51012 "Experimental aspects of elementary particles and fields  
(including astro-particle physics)"
- 5102 Nuclear Physics
  - 51020 Theoretical aspects of nuclear physics
  - 51021 Experimental aspects of nuclear physics
  - 51022 Applied nuclear physics
- 5103 Atomic and Molecular Physics
  - 51030 Atomic physics

- 51031 Molecular physics
- 5104 Electromagnetism, Optics, Acoustics, Heat Transfer, Classical Mechanics, and Fluid Dynamics
  - 51040 Electromagnetism
  - 51041 Optics
  - 51042 Acoustics
  - 51043 Classical mechanics
  - 51044 Fluid dynamics
- 5105 Physics of Gases, Plasmas, and Electric Discharges
  - 51050 Physics of gases
  - 51051 Physics of plasmas
- 5106 Condensed Matter: Structural, Mechanical and Thermal Properties
  - 51060 Structural and mechanical properties
  - 51061 Thermal and nonelectronic transport properties
  - 51062 Equations of state, phase equilibria and transitions
  - 51063 Surfaces, interfaces, thin films, nanosystems
- 5107 Condensed Matter: Electronic Structure, Electrical, Magnetic, and Optical Properties
  - 51070 Electronic structure and electrical properties
  - 51071 Magnetic properties
  - 51072 Dielectrics, piezoelectrics, ferroelectrics
  - 51073 Optical properties and interactions with radiation
  - 51074 Superconductivity
- 5108 Interdisciplinary Physics and Related Areas of Science and Technology
  - 51080 Chemical physics
  - 51081 Biological and medical physics
  - 51082 Other areas of applied and interdisciplinary physics
- 5109 Geophysics, Astronomy, and Astrophysics

51090 Physics of earth and direct surroundings (atmosphere, ionosphere, magnetosphere)

51091 Solar system, planetology

51092 Stellar and galactic systems

51093 Fundamental astronomy and astrophysics; cosmology

## **520 Chemistry**

5200 Physical chemistry

52000 Electrochemistry

52001 Spectroscopy

52002 Chemical thermodynamics

52003 (Molecular) reaction dynamics

52004 Surface and interface chemistry

52005 Chemistry of clusters, colloids and nanomaterials

5201 Theoretical chemistry

52010 Quantum chemistry

52011 Computational chemistry and chemical modelling

5202 Organic chemistry

52020 Physical organic chemistry

52021 Organic synthesis

52022 Bio-organic chemistry

5203 Inorganic chemistry

52030 General inorganic chemistry

52031 Inorganic synthesis

52032 Organometallic chemistry

52033 Coordination chemistry

5204 Materials chemistry

52040 Polymer chemistry

52041 Solid state chemistry

- 52042 Supramolecular chemistry
- 5205 Analytical chemistry
  - 52050 Analytical separation techniques
  - 52051 Spectroscopic methods
  - 52052 Mass spectrometry
  - 52053 Structural analysis
  - 52054 Electrochemical methods
  - 52055 Thermal analysis
  - 52056 Chemometrics
- 5206 Environmental chemistry
  - 52060 Atmospheric chemistry
  - 52061 Environmental chemistry - water
  - 52062 Environmental chemistry - soil
- 5207 Biochemistry
- 5208 Catalysis
- 5209 Interdisciplinary chemistry (including nuclear chemistry, clinical chemistry, food chemistry, geochemistry, medicinal chemistry, pharmaceutical chemistry, ...)

**530 Computer science**

- 5300 Theoretical computer science
- 5301 Databases
- 5302 Data mining
- 5303 Artificial intelligence
  - 53030 Knowledge representation and reasoning
  - 53031 Machine learning
  - 53032 Natural language processing
- 5304 Computer vision
- 5305 Bio-informatics

- 5306 Software engineering
  - 53060 Methods and tools for modelling and design
  - 53061 Software and program verification, metrics
  - 53062 Life cycle management (software evolution, reverse engineering)
  
- 5307 Programming languages and technologies
  - 53070 Language design, constructs and features
  - 53071 Language processors (compilers, interpreters, virtual machines)
  
  - 53072 Coding tools and techniques, testing and debugging
  
- 5308 Parallel and distributed computing
  - 53080 Mobile and ubiquitous computing
  - 53081 Cloud and grid computing
  - 53082 Multi-core programming
  
- 5309 Embedded and real-time systems
  
- 5310 System software and middleware
  
- 5311 Computer architecture and performance modelling
  
- 5312 Communication networks: architecture, design and management
  
- 5313 Security and protection
  
- 5314 Web and information systems and their management
  - 53140 Architectures, methods, techniques and tools of web and information systems and their management
  - 53141 Multimedia and cross-media information systems
  - 53142 Workflow management
  
- 5315 Human-computer interaction
  - 53150 Interaction techniques and paradigms
  - 53151 Architectures, methods, techniques and tools of human-computer interaction
  
- 5316 Computer graphics



- 5317 Scientific computing
  - 53170 Modelling and simulation
  - 53171 High performance computing
- 5318 Computer-aided design

**540 Earth sciences**

- 5400 General earth sciences & interdisciplinary
- 5401 Mineralogy - petrology – volcanology - geochronology
- 5402 Applied earth sciences: ore geology - petroleum geology - exploration - remote sensing - pollution
- 5403 Paleontology - paleoenvironments & paleoclimates
- 5404 Stratigraphy - sedimentology
- 5405 Tectonics & structural geology
- 5406 Geochemistry
- 5407 Atmospheric science and climatology (including modelling)
- 5408 Oceanography - marine geology - limnology
- 5409 Hydro(geo)logy - engineering earth sciences
- 5410 Planetary processes - solid earth geophysics
- 5411 Quaternary sciences - soil sciences - geomorphology - geoarcheology
- 5412 Geo(micro)biology - biogeochemistry

**550 Chemical engineering**

- 5500 Chemical and biochemical engineering techniques
  - 55000 Chemical kinetics and thermodynamics
  - 55001 Chemical reactors
  - 55002 Chemical process design
  - 55003 Polymer reaction engineering
- 5501 Process engineering and intensification
- 5502 Chemical product design and formulation
- 5503 Transport phenomena

- 55030 (Multiphase) flow
- 55031 Rheology and microfluidics
- 55032 Mass and heat transfer
- 5504 Separation techniques
- 5505 Catalytical techniques
  - 55050 Homogeneous catalysis
  - 55051 Heterogeneous catalysis
  - 55052 Biocatalysis
- 5506 Chemical safety engineering
- 5507 Sustainable development and environmental technology
  - 55070 Water
  - 55071 Air
  - 55072 Soil
  - 55073 Life cycle analysis
  - 55074 Recycling
  - 55075 Environmental and energy engineering
- 5508 Multiscale processes in (bio)chemical engineering techniques
  - 55080 Phenomena on multiscale and multicellular level
  - 55081 Multiscale characterization
  - 55082 Multiscale modelling

**560 Materials science**

- 5600 Metals
- 5601 Polymers
- 5602 Powders and ceramic materials
- 5603 Soft condensed matter
- 5604 Composites
- 5605 Textiles

- 5606 Surface engineering
- 5607 Materials synthesis
- 5608 Materials processing
- 5609 Properties of Materials
  - 56090 Structural properties of materials
  - 56091 Functional properties of materials
- 5610 Characterization of Materials
  - 56100 Destructive testing
  - 56101 Non-destructive testing
- 5611 Phase transformations
  - 56110 Thermodynamics
  - 56111 Kinetics
- 5612 Multiscale processes in materials science
  - 56120 Multiscale phenomena
  - 56121 Multiscale characterization
  - 56122 Multiscale modelling

**570 Electrical engineering and Electronics**

- 5700 Electrical energy and power systems
  - 57000 Electrical machines, transformers and drive engineering
  - 57001 Electrical energy production
  - 57002 Electrical energy grids (transportation and distribution)
  - 57003 High power electronics
  - 57004 Sustainable energy technique
  - 57005 High power measurement, modelling and control
  - 57006 Battery technology
  - 57007 Low frequency electromagnetism
- 5701 Electronic components and circuits

- 57010 Digital integrated circuits
- 57011 Analogue and mixed mode integrated circuits
- 57012 Measuring and control engineering
- 57013 Design of electronic circuits and systems
- 57014 Bioelectronics, biomedical engineering and instrumentation
- 57015 Sensors and biosensors
- 57016 Embedded systems
- 57017 Process technology
- 57018 Wireless systems
- 57019 Display technology
- 5702 Electronic materials
  - 57020 High and low temperature electronics
  - 57021 Semiconductor materials
  - 57022 Nanoelectronics and new electronic materials
  - 57023 Photovoltaic energy
  - 57024 Organic electronics
- 5703 Electromagnetic waves and radiation
  - 57030 Electromagnetism and antenna technology
  - 57031 High frequency circuits
  - 57032 Opto-electronics, photonics and silicon photonics
  - 57033 Laser technology
  - 57034 Electron and ion beam technologies
  - 57035 Microwaves, millimeter waves and RADAR
- 5704 Information technology and systems
  - 57040 Analogue and digital signal processing
  - 57041 Systems theory and identification
  - 57042 Telecommunication and remote sensing

- 57043 Audio and speech processing
- 57044 Image processing and medical imaging
- 57045 Bio-informatics
- 57046 Pattern recognition and neural networks
- 57047 Navigation
- 57048 Data communication
- 57049 Automation, feedback control and robotics
- 57050 Cryptography and security

**580 Mechanics**

- 5800 Transport phenomena
  - 58000 Fluid dynamics and fluid mechanics
  - 58001 Heating and refrigeration
  - 58002 Combustion technology and fire dynamics
- 5801 Vehicle technology
  - 58010 Automobile technology
  - 58011 Air and space technology
  - 58012 Maritime technology
  - 58013 Lightweight constructions
- 5802 Mechatronics
  - 58020 System theory, identification and modelling
  - 58021 Sensors and actuators
  - 58022 Control
  - 58023 Robotics
- 5803 Energy engineering
  - 58030 Thermal energy
  - 58031 Nuclear energy
  - 58032 Wind energy

- 58033 Solar energy
- 5804 Design technology
  - 58040 Computer aided design
  - 58041 Kinematics and dynamics
  - 58042 Acoustics, noise and vibration engineering
  - 58043 Tribology
  - 58044 Fatigue and damage detection
  - 58045 computer aided engineering and simulation
- 5805 Production techniques and machine building
  - 58050 Production techniques
  - 58051 Joining techniques
  - 58052 Computer integrated manufacturing
  - 58053 Rapid manufacturing
  - 58054 Precision mechanics and metrology
- 5806 Biomechanics
- 5807 Industrial engineering and operational research
- 5808 Mechanical safety engineering
- 590 Construction and architecture**
  - 5900 Mining and geotechnics
  - 5901 Civil constructions and hydraulic engineering
    - 59010 Road construction
    - 59011 Bridge construction
    - 59012 Hydraulical structures
    - 59013 Hydraulics
    - 59014 Water management
    - 59015 Soil mechanics
  - 5902 Structural engineering, construction materials and techniques

- 59020 Construction design and technology
- 59021 Construction mechanics
- 59022 Materials technology
- 59023 Conservation and restoration techniques
- 59024 Life cycle analysis of construction materials
- 59025 Non-destructive testing, safety and diagnosis
- 5903 Construction physics
  - 59030 Humidity and heat transport in buildings
  - 59031 Construction acoustics
  - 59032 Installation techniques
- 5904 Architecture
  - 59040 Research by design
  - 59041 Design theory
  - 59042 CAAD
  - 59043 History of architecture and urbanism
  - 59044 Theory of architecture and urbanism
  - 59045 Built heritage and renovation
  - 59046 Sustainable building
  - 59047 Real estate and management
- 5905 Urbanism, spatial planning and transport science
  - 59050 Landscape architecture
  - 59051 Urban design and urbanization
  - 59052 Spatial development and theory (including landscape planning)
  - 59053 Environment and sustainability, sustainable development
  - 59054 Mobility and transport
  - 59055 Operational management, systems management and logistics