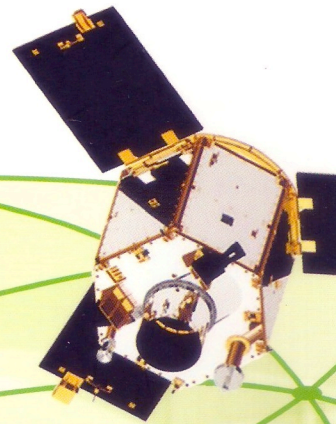



Malaysian Research and Development Classification System

6th Edition




Searching for Field of Research

If you want to find a particular field of research in this document, you can use *Adobe Reader* to search for the pages where the term appears. For example, you can search for 'computer'.

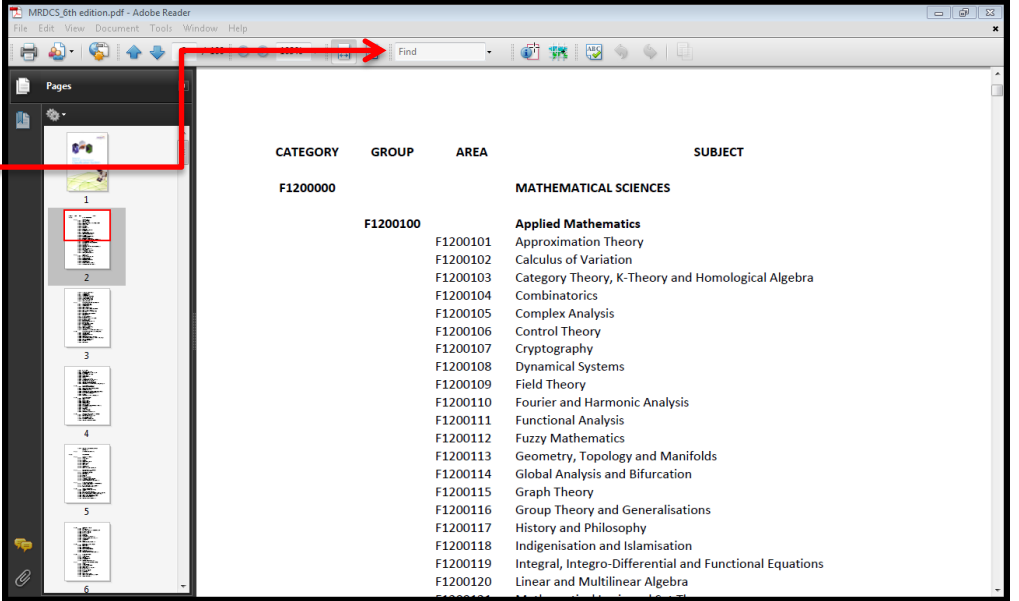


Click in the field:



Type:
computer

Press:




CATEGORY	GROUP	AREA	SUBJECT
F1200000			MATHEMATICAL SCIENCES
	F1200100		Applied Mathematics
		F1200101	Approximation Theory
		F1200102	Calculus of Variation
		F1200103	Category Theory, K-Theory and Homological Algebra
		F1200104	Combinatorics
		F1200105	Complex Analysis
		F1200106	Control Theory
		F1200107	Cryptography
		F1200108	Dynamical Systems
		F1200109	Field Theory
		F1200110	Fourier and Harmonic Analysis
		F1200111	Functional Analysis
		F1200112	Fuzzy Mathematics
		F1200113	Geometry, Topology and Manifolds
		F1200114	Global Analysis and Bifurcation
		F1200115	Graph Theory
		F1200116	Group Theory and Generalisations
		F1200117	History and Philosophy
		F1200118	Indigenisation and Islamisation
		F1200119	Integral, Integro-Differential and Functional Equations
		F1200120	Linear and Multilinear Algebra

Adobe Reader is searching for the word:


In the document, the searched text is selected:

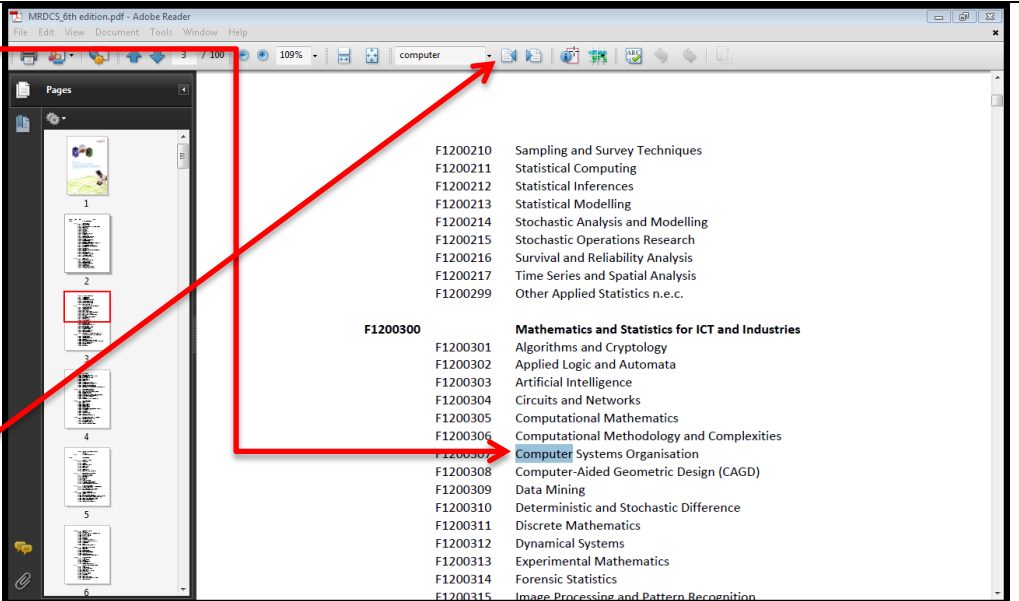
Computer

A word can appear more than one time in a document:



Click:





F1200210	Sampling and Survey Techniques
F1200211	Statistical Computing
F1200212	Statistical Inferences
F1200213	Statistical Modelling
F1200214	Stochastic Analysis and Modelling
F1200215	Stochastic Operations Research
F1200216	Survival and Reliability Analysis
F1200217	Time Series and Spatial Analysis
F1200299	Other Applied Statistics n.e.c.
F1200300	Mathematics and Statistics for ICT and Industries
F1200301	Algorithms and Cryptology
F1200302	Applied Logic and Automata
F1200303	Artificial Intelligence
F1200304	Circuits and Networks
F1200305	Computational Mathematics
F1200306	Computational Methodology and Complexities
F1200307	Computer Systems Organisation
F1200308	Computer-Aided Geometric Design (CAGD)
F1200309	Data Mining
F1200310	Deterministic and Stochastic Difference
F1200311	Discrete Mathematics
F1200312	Dynamical Systems
F1200313	Experimental Mathematics
F1200314	Forensic Statistics
F1200315	Image Processing and Pattern Recognition

CATEGORY	GROUP	AREA	SUBJECT
F1200000			MATHEMATICAL SCIENCES
	F1200100		Applied Mathematics
		F1200101	Approximation Theory
		F1200102	Calculus of Variation
		F1200103	Category Theory, K-Theory and Homological Algebra
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		F1200105	Complex Analysis
		F1200106	Control Theory
		F1200107	Cryptography
		F1200108	Dynamical Systems
		F1200109	Field Theory
		F1200110	Fourier and Harmonic Analysis
		F1200111	Functional Analysis
		F1200112	Fuzzy Mathematics
		F1200113	Geometry, Topology and Manifolds
		F1200114	Global Analysis and Bifurcation
		F1200115	Graph Theory
		F1200116	Group Theory and Generalisations
		F1200117	History and Philosophy
		F1200118	Indigenisation and Islamisation
		F1200119	Integral, Integro-Differential and Functional Equations
		F1200120	Linear and Multilinear Algebra
		F1200121	Mathematical Logic and Set Theory
		F1200122	Mathematical Programming and Optimisation
		F1200123	Number Theory
		F1200124	Numerical Analysis
		F1200125	Operations Research
		F1200126	Ordinary Differential and Partial Differential Equations
		F1200127	Real Analysis
		F1200128	Real and Complex Functions
		F1200129	Rings and Algebras
		F1200130	Sequential and Parallel Algorithms
		F1200131	Several Complex Variables
		F1200199	Other Applied Mathematics n.e.c.
	F1200200		Applied Statistics
		F1200201	Decision Theory
		F1200202	Experimental Design and Analysis
		F1200203	Exploratory Data Analysis
		F1200204	History and Philosophy
		F1200205	Indigenisation and Islamisation
		F1200206	Multivariate Analysis
		F1200207	Observational Studies
		F1200208	Probability and Distribution Theory
		F1200209	Quality and Productivity Measurement

F1200210	Sampling and Survey Techniques
F1200211	Statistical Computing
F1200212	Statistical Inferences
F1200213	Statistical Modelling
F1200214	Stochastic Analysis and Modelling
F1200215	Stochastic Operations Research
F1200216	Survival and Reliability Analysis
F1200217	Time Series and Spatial Analysis
F1200299	Other Applied Statistics n.e.c.

F1200300 Mathematics and Statistics for ICT and Industries

F1200301	Algorithms and Cryptology
F1200302	Applied Logic and Automata
F1200303	Artificial Intelligence
F1200304	Circuits and Networks
F1200305	Computational Mathematics
F1200306	Computational Methodology and Complexities
F1200307	Computer Systems Organisation
F1200308	Computer-Aided Geometric Design (CAGD)
F1200309	Data Mining
F1200310	Deterministic and Stochastic Difference
F1200311	Discrete Mathematics
F1200312	Dynamical Systems
F1200313	Experimental Mathematics
F1200314	Forensic Statistics
F1200315	Image Processing and Pattern Recognition
F1200316	Image Processing Theory
F1200317	Industrial Computing
F1200318	Industrial Optimisation and Control
F1200319	Industrial Statistics
F1200320	Information and Communication
F1200321	Mathematical Prediction
F1200322	Monitoring Mathematics
F1200323	Natural Language Programming
F1200324	Software Engineering
F1200325	Visualisation of Mathematics
F1200399	Other Mathematics and Statistics for ICT and Industries n.e.c.

F1200400 Mathematics and Statistics for Science and Engineering

F1200401	Actuarial Mathematics
F1200402	Actuarial Modelling
F1200403	Biological and Medical Sciences
F1200404	Bio-Mathematics
F1200405	Business, Financial and Managerial Sciences
F1200406	Celestial Mechanics, Mathematical Astrophysics and Cosmology
F1200407	Computational Complex Analysis
F1200408	Deformed Solid Mechanics
F1200409	Economics
F1200410	Fluid Mechanics

F1200411	Inverse Problem
F1200412	Optics and Electromagnetism
F1200413	Particle, Rigid Bodies and System Mechanics
F1200414	Potential Theory
F1200415	Quality Assurance and Standard
F1200416	Quantum Theory
F1200417	Random Matrix Theory
F1200418	Relativity
F1200419	Social Sciences and Humanities
F1200420	Statistical Mechanics and Structure of Matter
F1200421	Thermodynamics and Heat Transfer
F1200422	Unified Theory and Theory of Everything
F1200423	Visualisation, Prediction and Monitoring
F1200499	Other Mathematics and Statistics for Science and Engineering n.e.c.
F1200500	Mathematical Science for Education
F1200501	Critical and Mathematical Thinking
F1200502	Curriculum Development and Teaching Methods
F1200503	Education and Instruction
F1200504	Education Policy and System
F1200505	Educational Material and Media, and Educational Technology
F1200506	Mathematical Ethnoscience and Islamic Education
F1200507	Popularisation and Acculturation
F1200508	Psychology
F1200599	Other Mathematical Science for Education n.e.c.
F1200600	Mathematics for Business
F1200601	Business Management
F1200602	Calculus
F1200603	Elementary Algebra
F1200604	Elementary Arithmetic
F1200605	Financial Analysis
F1200606	Financial Mathematics
F1200607	Linear Programming
F1200608	Mathematical Finance (Quantitative Behavioral Finance)
F1200609	Mathematics in Accounting
F1200610	Matrix Algebra
F1200611	Real Analysis
F1200612	Statistics and Probability
F1200613	Trigonometric Functions
F1200699	Other Mathematics for Business n.e.c.
F1200700	Advancement of Mathematical Science Knowledge
F1200701	Grand Challenge Application
F1200702	Library, Repository and Apps Software
F1200703	New Trends of International Mathematics and Statistics
F1200704	Numerical Library and Repository
F1200705	Visualisation, Prediction and Monitoring

F1200799 Other Advancement of Mathematical Science
Knowledge n.e.c.

F1209900 Other Mathematical Sciences n.e.c.

F1210000 PHYSICAL SCIENCES

F1210100 Astronomy and Astrophysics

F1210101 Aeronomy
F1210102 Archeoastronomy
F1210103 Astrophysics
F1210104 Cosmology
F1210105 Gallactic and Extragalactic
F1210106 Optical Astronomy
F1210107 Radioastronomy
F1210108 Solar System
F1210109 Sphericalastronomy
F1210110 Stellar System
F1210199 Other Astronomy and Astrophysics n.e.c.

F1210200 Theoretical and Computational Physics

F1210201 Chaos Theory and Simulation
F1210202 Classical and Quantum Physics
F1210203 Condensed Matter
F1210204 Electromagnetism
F1210205 Field Theory
F1210206 Fractals
F1210207 Relativity and Gravitation
F1210208 Statistical Physics and Thermodynamics
F1210209 Wave Phenomena and Propagation
F1210299 Other Theoretical and Computational Physics n.e.c.

F1210300 Atomic and Molecular Physics

F1210301 Atomic and Molecular Collision Processes and Interactions
F1210302 Atomic and Molecular Structure
F1210303 Instrumentation and Measurement Techniques
F1210399 Other Atomic and Molecular Physics n.e.c.

F1210400 Acoustics and Optical Physics

F1210401 Acoustical and Optical Signal Processing
F1210402 Acoustics
F1210403 Electro-Optics and Light Modulation
F1210404 Fibre Optics and Waveguides (Including Communication Equipment)
F1210405 Instrumentation, Measurement Techniques and Metrology
F1210406 Optics, Non-Linear Optics and Quantum Optics
F1210407 Opto-Acoustic and Opto-Thermal Phenomena
F1210408 Quantum Electronics and Lasers
F1210499 Other Acoustics and Optical Physics n.e.c.

F1210500	Condensed Matter Physics
F1210501	Composite
F1210502	Crystallography
F1210503	Electronic, Electrical, Magnetic and Optical Properties
F1210504	Low Dimensional Physics
F1210505	Low Temperature Physics
F1210506	Magnetic Material
F1210507	Nano Physics
F1210508	Phonon Physics
F1210509	Semiconductor Materials and Devices
F1210510	Structure, Mechanical and Thermal Properties
F1210511	Superconductivity
F1210512	Surface Interface
F1210513	Thin Film
F1210599	Other Condensed Matter Physics n.e.c.
F1210600	Fluid, Discharges and Plasma Physics
F1210601	Electric Discharges
F1210602	Fluid Dynamics
F1210603	Gaseous Electronics
F1210604	Physical Properties of Gases
F1210605	Plasma Devices and Applications
F1210606	Space Plasma
F1210607	Theory and Modelling of Plasma
F1210699	Other Fluid, Discharges and Plasma Physics n.e.c.
F1210700	Cross Disciplinary Physics
F1210701	Astrophysics
F1210702	Atmospheric Physics
F1210703	Biophysics
F1210704	Mathematical Physics
F1210705	Medical Physics
F1210799	Other Cross Disciplinary Physics n.e.c.
F1210800	Advancement of Physical Sciences Knowledge
F1210801	Acoustics
F1210802	Atmospheric Physics
F1210803	Atomic and Molecular Physics
F1210804	High Energy Physics
F1210805	High Temperature Superconductivity
F1210806	Ionospheric Physics
F1210807	Low Temperature Physics
F1210808	Magnetospheric Physics
F1210809	Material Physics
F1210810	Nanostructure
F1210811	Nuclear and Reactor Physics
F1210812	Optics, Non-Linear Optics and Quantum Optics
F1210813	Optoelectronics and Lasers

F1210814	Plasma Physics
F1210815	Radiation Physics
F1210816	Space Exploration
F1210817	Space Science
F1210899	Other Advancement of Physical Sciences Knowledge n.e.c.

F1219900	Other Physical Sciences n.e.c.
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F1220000	CHEMICAL SCIENCES
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F1220100	Physical Chemistry
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F1220101	Catalysis, Kinetics and Mechanisms of Reactions
F1220102	Chemical Thermodynamics
F1220103	Colloid Chemistry
F1220104	Electrochemistry
F1220105	Ionic Liquids
F1220106	Polymer Chemistry
F1220107	Quantum Chemistry
F1220108	Soft Matters
F1220109	Solution Chemistry
F1220110	Statistical Mechanics
F1220111	Structural Chemistry
F1220112	Surface Chemistry
F1220113	Theoretical Chemistry
F1220114	Transport Properties and Non-Equilibrium Processes
F1220199	Other Physical Chemistry n.e.c.

F1220200	Inorganic Chemistry
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F1220201	Bio-Inorganic Chemistry
F1220202	f-Block Chemistry
F1220203	Inorganic Green Chemistry
F1220204	Main Group Metal Chemistry
F1220205	Non-Metal Chemistry
F1220206	Organometallic Chemistry
F1220207	Solid State Chemistry
F1220208	Transition Metal Chemistry
F1220299	Other Inorganic Chemistry n.e.c.

F1220300	Organic Chemistry
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F1220301	Bioorganic Chemistry
F1220302	Fine and Speciality Chemicals
F1220303	Free Radical Chemistry
F1220304	Medicinal Chemistry
F1220305	Natural Products Chemistry
F1220306	Oleochemical Chemistry
F1220307	Organic Chemical Synthesis
F1220308	Organic Green Chemistry
F1220309	Petrochemical Chemistry

	F1220310	Physical Organic Chemistry
	F1220311	Polymer Synthesis
	F1220399	Other Organic Chemistry n.e.c.
F1220400		Analytical Chemistry
	F1220401	Analytical Nuclear Chemistry
	F1220402	Analytical Spectrometry
	F1220403	Chemical and Physical Methods
	F1220404	Chemometrics
	F1220405	Computational Chemistry
	F1220406	Electroanalytical Chemistry
	F1220407	Immunological and Bioassay Methods
	F1220408	Instrumental Methods
	F1220409	Quality Assurance
	F1220410	Sensor Technology (Chemical Aspects)
	F1220411	Separation Science
	F1220412	Trace Chemical Analysis
	F1220413	Traceability and Metrological Chemistry
	F1220499	Other Analytical Chemistry n.e.c.
F1220500		Macromolecular and Materials Chemistry
	F1220501	Characterisation of Molecules
	F1220502	Functional Macromolecules
	F1220503	Liquid Crystal
	F1220504	Nanochemistry and Supramolecular Chemistry
	F1220505	Optical Properties of Materials
	F1220506	Physical Chemistry of Molecules
	F1220507	Polymerisation Mechanisms
	F1220508	Synthesis of Molecules
	F1220509	Theory and Design of Materials
	F1220599	Other Macromolecular and Materials Chemistry n.e.c.
F1220600		Medicinal and Biomolecular Chemistry
	F1220601	Biologically Active Molecules
	F1220602	Biomolecular Modelling and Design
	F1220603	Characterisation of Biological Macromolecules
	F1220604	Cheminformatics and Quantitative Structure-Activity Relationships
	F1220605	Enzymatic Chemistry
	F1220606	Molecular Medicine
	F1220607	Proteins and Peptides
	F1220699	Other Medicinal and Biomolecular Chemistry n.e.c.
F1220700		Food Chemistry
	F1220701	Additives and Contaminants
	F1220702	Enzymes
	F1220703	Food Analysis
	F1220704	Food Emulsion Products
	F1220705	Food Microbiology
	F1220706	Food Preservation

F1220799 Other Food Chemistry n.e.c.

F1220800 Environmental Chemistry

F1220801 Aquatic Chemistry
F1220802 Atmospheric Chemistry
F1220803 Pollution Chemistry
F1220804 Seawater Chemistry
F1220805 Soil Chemistry
F1220899 Other Environmental Chemistry n.e.c.

F1220900 Applied Chemical Sciences

F1220901 Chemical Education
F1220902 Cosmeceuticals
F1220903 Drug Intermediates from Indigenous Sources
F1220904 Expired Patent Chemicals
F1220905 Forensic Chemistry
F1220906 Heat Resistant/Flame Retarding Chemicals
F1220907 Industrial Chemistry
F1220908 Nuclear Chemistry
F1220909 Radiochemistry
F1220910 Toxicological Chemistry
F1220999 Other Applied Chemical Sciences n.e.c.

F1229900 Other Chemical Sciences n.e.c.

F1230000 BIOLOGICAL SCIENCES

F1230100 Biochemistry

F1230101 Bioenergetics
F1230102 Carbohydrates
F1230103 Cell Biology
F1230104 Electrolytes
F1230105 Enzymology
F1230106 Immunology
F1230107 Lipids
Manufacturing Instruments
(Including Bioglass, Biochips,
F1230108 Biometrics and Bioreactor)
F1230109 Membrane Biology
F1230110 Neurochemistry
F1230111 Nucleic Acids
F1230112 Proteins
F1230199 Other Biochemistry n.e.c.

F1230200 Genetics

F1230201 Biochemical Genetics
F1230202 Cell Biology
F1230203 Comparative Genetics

F1230204	Cytogenetics
F1230205	Developmental Genetics
F1230206	Embryonic Cell Nuclear Transfer
F1230207	Forensic Genetics
F1230208	Mendelian Genetics
F1230209	Molecular Genetics
F1230210	Mutagenesis
F1230211	Phylogenetics
F1230212	Polyploidisation
F1230213	Population Genetics
F1230214	Recombinant DNA Techniques
F1230215	Semantic Dicaryotisation
F1230216	Single Nucleotide Polymorphisms (SNPs)
F1230217	Somatic Cell Nuclear Transfer
F1230218	Stem Cell
F1230299	Other Genetics n.e.c.

F1230300

Microbiology

F1230301	Bacteriology
F1230302	Environmental Microbiology
F1230303	Immunology
F1230304	Industrial Microbiology
F1230305	Medical Microbiology
F1230306	Microbial Systematic
F1230307	Mycology
F1230308	Parasitology
F1230309	Plant-Microbe Interactions
F1230310	Protozoology
F1230311	Virology
F1230399	Other Microbiology n.e.c.

F1230400

Botany

F1230401	Economic Botany
F1230402	Ethnobotany
F1230403	Phycology
F1230404	Plant Cell and Molecular Biology
F1230405	Plant Developmental and Reproductive Biology
F1230406	Plant Pathology
F1230407	Plant Physiology
F1230408	Plant Systematic
F1230409	Plant Taxonomy
F1230499	Other Botany n.e.c.

F1230500

Zoology

F1230501	Anatomy
F1230502	Animal Developmental and Reproductive Biology
F1230503	Animal Immunology
F1230504	Animal Systematics
F1230505	Animal Taxonomy

F1230506	Entomology
F1230507	Ethnology
F1230508	Ethology
F1230509	Herpetology
F1230510	Histology
F1230511	Ichthyology
F1230512	Invertebrates
F1230513	Mammology
F1230514	Neurobiology
F1230515	Ornithology
F1230599	Other Zoology n.e.c.

F1230600

Ecology

F1230601	Coastal Ecology
F1230602	Ecological Engineering
F1230603	Estuarine Ecology
F1230604	Freshwater Ecology
F1230605	Karst Ecology
F1230606	Landscape Ecology
F1230607	Limnology
F1230608	Mangrove Ecology
F1230609	Marine Ecology
F1230610	Molecular Ecology
F1230611	Montane Ecology
F1230612	Palaeoecology
F1230613	Physiological Ecology
F1230614	Population Ecology
F1230615	Social Biology and Behaviour Ecology
F1230616	Terrestrial Ecology
F1230699	Other Ecology n.e.c.

F1230700

Physiology

F1230701	Animal Biophysics Physiology
F1230702	Animal Cell Physiology
F1230703	Animal Systems Physiology
F1230704	Comparative Physiology
F1230705	Human Physiology
F1230706	Insect Physiology
F1230707	Leaf Gas Exchange
F1230708	Microbial Physiology
F1230709	Neurophysiology
F1230710	Physicochemical Assimilation
F1230711	Plant and Water Relation
F1230712	Plant Growth Regulators
F1230713	Post Harvest Physiology
F1230714	Radiation Interception
F1230715	Reduction of Juvenile Period
F1230716	Seasonality
F1230717	Stress Physiology

F1230718 Translocational Studies
F1230799 Other Physiology n.e.c.

F1230800

Biodiversity and Conservation

F1230801 Bioethic and Environmental Ethic
F1230802 Biogeography
F1230803 Brackish Water Biodiversity and Conservation
F1230804 Conservation Genetics
F1230805 Ecosystem Diversity
F1230806 Evolutionary Biology
F1230807 Freshwater Biodiversity and Conservation
F1230808 Freshwater Ecology
F1230809 Fungal Biodiversity and Conservation
F1230810 Genetic Diversity
F1230811 Indigenous Microbes Biodiversity and Conservation
F1230812 Landscape Ecology
F1230813 Life History BT: Population Ecology
F1230814 Livestock Biodiversity and Conservation
F1230815 Mapping, Monitoring and Modeling
F1230816 Marine Biodiversity and Conservation
F1230817 Palaeoecology
F1230818 Parks and Protected Areas Conservation
F1230819 Phylogeography
F1230820 Plant Biodiversity and Conservation
F1230821 Sociobiology and Behavioural Ecology
F1230822 Species Diversity
F1230823 Terrestrial Biodiversity and Conservation
F1230824 Terrestrial Ecology
F1230825 Wildlife Biodiversity and Conservation
F1230826 Wildlife Conservation
F1230899 Other Biodiversity and Conservation n.e.c.

F1230900

Advancement of Biological Science Knowledge

F1230901 Evolutionary Biology
F1230999 Other Advancement of Biological Science Knowledge n.e.c.

F1239900

Other Biological Sciences n.e.c.

F1240000

BIOINFORMATICS

F1240100

Computational Molecular Biology

F1240101 Comparative Genomics
F1240102 Epigenomics
F1240103 Evolutionary Genomics
F1240104 Functional Genomics
F1240105 Gene Expression Analyses
F1240106 Gene Regulatory Network
F1240107 Genome Annotation, Assembly and Mapping
F1240108 Genome Platform and Tools

F1240109	Genome Profiling
F1240110	Genomics-Based Diagnostic
F1240111	Metagenomics
F1240112	Pharmacogenomics
F1240113	Psychogenomics
F1240114	RNomics
F1240115	Structural Genomics
F1240116	Systematics
F1240117	Toxicogenomics
F1240118	Translational Genomics
F1240199	Other Computational Molecular Biology n.e.c.

F1240200

Structural Bioinformatics

F1240201	Absorption, Distribution, Metabolism, Elimination/Excretion and Toxicity (ADMET) Modelling
F1240202	Binding Pocket Modelling
F1240203	Biomolecular Interactions
F1240204	Biomolecular Structure and Function
F1240205	Biomolecular Topology
F1240206	Computer-based Lead Compound Discovery
F1240207	Molecular Docking
F1240208	Molecular Dynamics Simulation
F1240209	Molecular Virtual Screening
F1240210	Protein Interaction Network
F1240211	Protein Mobility Analysis
F1240212	Structural Proteomics
F1240213	Synthetic Molecular Structure
F1240214	Virtual Structural Library Design and Management
F1240299	Other Structural Bioinformatics n.e.c.

F1240300

Systems Biology

F1240301	Animal Systems Biology
F1240302	Cell Modelling
F1240303	Cellular Metabolomics
F1240304	Ecological Systems Biology
F1240305	Host-Pathogen Interaction
F1240306	Microbial Systems Biology
F1240307	Network Modelling
F1240308	Pathway Modelling
F1240309	Plant Systems Biology
F1240310	Systems Immunobiology
F1240311	Systems Neuroscience
F1240399	Other Systems Biology n.e.c.

F1240400

Bioinformatics Tools, Platforms and Technologies

F1240401	Artificial Intelligence and Intelligent Systems for Life Sciences
F1240402	Bio-Embedded Systems

F1240403	Biogrid and Biocluster
F1240404	Bioimaging Processing
F1240405	Bio-Knowledge Management
F1240406	Biomodeling and Simulation
F1240407	Bioontologies and Semantics
F1240408	Biosensing
F1240409	Biosignal Processing and Analysis
F1240410	Bio-Virtualisation
F1240411	Data Acquisition, Management and Processing for Life Sciences
F1240412	Data and Network Security
F1240413	Data Integration for Life Sciences
F1240414	Data Mining for Life Sciences
F1240415	Data Standards for Life Sciences
F1240416	Database
F1240417	Decision Support Systems
F1240418	Diagnostic Tools for Life Sciences (Including AURA, EEG, GATE and IRIS)
F1240419	Digital Atlases of Organisms
F1240420	Laboratory Information Management Systems
F1240499	Other Bioinformatics Tools, Platforms and Technologies n.e.c

F1240500

Specialised Bioinformatics

F1240501	Agriculture Informatics
F1240502	Biodiversity Informatics
F1240503	Bioethics and Intellectual Property
F1240504	Biomedical Informatics
F1240505	Cancer Bioinformatics
F1240506	Drug Discovery Informatics
F1240507	Ecological Informatics
F1240508	Evolutionary Informatics
F1240509	Forensic Bioinformatics
F1240510	Forest Bioinformatics
F1240511	Health Informatics
F1240512	Immunoinformatics
F1240513	Microarray Bioinformatics
F1240514	Microbial Informatics
F1240515	Neuroinformatics
F1240516	Pathology Informatics
F1240599	Other Specialised Bioinformatics n.e.c.

F1240600

Computational Biosciences

F1240601	Computational-Aided Drug Design
F1240602	Computational Biochemistry
F1240603	Computational Biomathematics
F1240604	Computational Biophysics
F1240605	Computational Bioprocess
F1240606	Computational Biostatistics
F1240699	Other Computational Biosciences n.e.c.

F1249900

Other Bioinformatics n.e.c.

F1250000**NUCLEAR SCIENCES****F1250100****Nuclear Fundamental**

F1250101	Nuclear Data Study
F1250102	Nuclear Fission and Fusion Physics
F1250103	Nuclear Reaction and Scattering
F1250104	Nuclear Structure
F1250105	Radiation Detection and Measurement
F1250106	Radiation Effect
F1250107	Radiation Source
F1250108	Radioactivity and Electromagnetic Emission
F1250109	System of Dose Limitation
F1250199	Other Nuclear Fundamental n.e.c

F1250200**Nuclear Technology**

F1250201	Accelerator Technology
F1250202	Industrial Radiography
F1250203	Ion and Electron Beam Technology
F1250204	Ionising Radiation Technology
F1250205	Isotope/Isotopic Tracer Technology
F1250206	Neutron Beam Technology
F1250207	Neutron Science and Technology
F1250208	Non Destructive Testing
F1250209	Non-Ionising Radiation Technology
F1250210	Radiation Safety and Security
F1250211	Radiation Sterilisation
F1250212	Radiation Technology
F1250213	Radiography
F1250214	Reactor Technology
	Technologically Enhanced Naturally Occurring Radioactive Material (TENORM)
F1250215	
F1250299	Other Nuclear Technology n.e.c.

F1250300**Nuclear Engineering**

F1250301	Fuel and Structural Reactor Materials
F1250302	Irradiation Effect
F1250303	Isotope Production
F1250304	Nuclear Safety, Security and Safeguard
F1250305	Quality Assurance and Control
F1250306	Radiation Detection Device
F1250307	Radiation Processing
F1250308	Radiation Shielding
F1250309	Radiation Sterilisation
F1250310	Safety Assurance
F1250311	Thermal Hydraulic
F1250399	Other Nuclear Engineering n.e.c.

F1250400	Nuclear and Radiation Safety
F1250401	Decommissioning of Nuclear and Radiation Facility
F1250402	Spent Fuel Management
F1250403	Transport of Radioactive and Nuclear Materials
F1250404	Waste Management
F1250499	Other Nuclear and Radiation Safety n.e.c.
F1250500	Nuclear Security
F1250501	Border Security
F1250502	Design Basis Threat
F1250503	Illicit Trafficking
F1250504	Physical Protection
F1250599	Other Nuclear Security n.e.c.
F1250600	Nuclear Safeguard
F1250601	Containment and Surveillance
F1250602	Nuclear Material Accounting
F1250603	Nuclear Trade
F1250604	Physical Inventory Verification
F1250699	Other Nuclear Safeguard n.e.c.
F1250700	Radiation Protection
F1250701	Dosimetry
F1250702	Internal and External Dose Exposure
F1250703	Occupational Exposure and Hazard
F1250704	Public Exposure
F1250799	Other Radiation Protection n.e.c.
F1250800	Nuclear Law
F1250801	Authorisation Process
F1250802	Enforcement Process
F1250803	Nuclear Legislation
F1250804	Public Acceptance
F1250805	Regulatory Development Process
F1250899	Other Nuclear Law n.e.c.
F1250900	International Treaty and Obligation
F1250901	Non-Proliferation of Nuclear Weapon
F1250902	Nuclear Liability
F1250903	Nuclear Safety
F1250904	Nuclear Terrorism
F1250905	Nuclear Waste
F1250906	Physical Protection of Nuclear Material
F1250999	Other International Treaty and Obligation n.e.c.
F1251000	Nuclear and Radiological Emergency
F1251001	Decontamination
F1251002	Radiological and Emergency Response

F1251099 Other Nuclear and Radiological Emergency n.e.c

F1251000 Nuclear Analytical methodology

F1251101 Chromosome Aberration
F1251102 Radioimmunoassay
F1251103 Radiotracer
F1251104 Radon and Thoron
F1251199 Other Nuclear Analytical methodology

F1251200 Advancement of Nuclear Sciences Knowledge

F1251201 Cyclotron
F1251202 Environment Impact Assessment
F1251203 Forensic
F1251204 Gamma Source
F1251205 Neutron Source
F1251206 Radiation Lithography
F1251207 Radiological Impact Assessment
F1251208 Synchrotron
F1251299 Other Advancement of Nuclear Sciences Knowledge n.e.c

F1259900 Other Nuclear Sciences n.e.c

F1260000

EARTH SCIENCES

F1260100 Geology

F1260101 Economic Geology (Including Ore Deposit Petrology)
F1260102 Engineering Geology (Including Geohazard)
F1260103 Environmental Geology (Including Conservation Geology/Geotourism)
F1260104 Geochronology (Including Radiometrics, Carbon Dating)
F1260105 Geomorphology
F1260106 Geotectonics
F1260107 Glaciology
F1260108 Historical Geology (Including Quaternary Geology)
F1260109 Marine Geoscience
F1260110 Mineralogy (Including Crystallography and Gemology)
F1260111 Palaeontology (Including Pollen Dating)
F1260112 Petroleum Geology (Including Coal Geology)
Petrology (Including Igneous and
Metamorphic Petrology,
F1260113 Sedimentary Petrology)
F1260114 Sedimentology
F1260115 Speleology
F1260116 Stratigraphy
F1260117 Structural Geology
F1260118 Volcanology
F1260199 Other Geology n.e.c.

F1260200 Geophysics

F1260201 Geodynamics

	F1260202	Geomagnetism
	F1260203	Geomagnetism and Paleomagnetism
	F1260204	Geomechanics (Including Rock Mechanics, Soil Mechanics)
	F1260205	Geothermics
	F1260206	Gravity (Including Gravimetrics)
	F1260207	Petrophysics
	F1260208	Radiometric
	F1260209	Seismology (Including Earthquake and Tsunami, Seismic Exploration)
	F1260299	Other Geophysics n.e.c.
F1260300		Geochemistry
	F1260301	Biogeochemistry
	F1260302	Exploration Geochemistry
	F1260303	Inorganic Geochemistry
	F1260304	Isotope Geochemistry
	F1260305	Microbial Geochemistry
	F1260306	Organic Geochemistry
	F1260399	Other Geochemistry n.e.c.
F1260400		Hydrology
	F1260401	Ecohydrology
	F1260402	Ground Water Hydrology
	F1260403	Hydraulic System
	F1260404	Hydrometeorology
	F1260405	Rural Hydrology
	F1260406	Surface Water Hydrology
	F1260407	Urban Hydrology
	F1260499	Other Hydrology n.e.c.
F1260500		Atmospheric Sciences
	F1260501	Climatology
	F1260502	El Nino Southern Oscillation (ENSO)
	F1260503	Ionosphere Physics
	F1260504	Magnetosphere Physics
	F1260505	Meteorology
	F1260506	Monsoon System
	F1260507	Palaeoclimatology
	F1260508	Solar-Terrestrial Interaction
	F1260509	Space Weather
	F1260599	Other Atmospheric Sciences n.e.c.
F1260600		Ionosphere and Upper Atmosphere
	F1260601	Dynamics
	F1260602	Effects on Electromagnetic Waves
	F1260603	Electron Content and Scintillation
	F1260604	Geomagnetic Field
	F1260605	Ionospheric Sounding
	F1260606	Irregularities
	F1260607	Morphology

F1260608	Profile
F1260609	Seismo-Ionospheric Coupling
F1260699	Other Ionosphere and Upper Atmosphere n.e.c.

F1260700	Advancement of Earth Sciences Knowledge
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F1269900	Other Earth Sciences n.e.c.
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F1270000	ENVIRONMENTAL SCIENCES
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F1270100	Environmental Issues and Assesment
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F1270101	Acid Rain
F1270102	Agro Waste
F1270103	Air Pollution
F1270104	Aquatic Environment
F1270105	Atmospheric Chemistry
F1270106	Climate Change
F1270107	Coastal Erosion
F1270108	Environmental Impact Assesment (EIA)
F1270109	Environmental Protection
F1270110	Environmental Racism
F1270111	Environmentalism
F1270112	Global Warming/Climate Change
F1270113	Groundwater Contamination
F1270114	Heavy Metal Waste
F1270115	Isotope Hydrology
F1270116	Land Reclamation
F1270117	Natural Ecosystem
F1270118	Noise Pollution
F1270119	Nutrient Removal Process
F1270120	Ozone Depletion
F1270121	Radioactive Waste
F1270122	Remote Sensing
F1270123	Renewable Energy
F1270124	Sea Water/Salt Water Intrusion
F1270125	Sediment Transport and Silting
F1270126	Toxic and Hazardous Waste
F1270127	Waste Water
F1270128	Water Pollution
F1270129	Water Quality Simulation Modelling
F1270130	Water Resources Study
F1270199	Other Environmental Issues and Assesment n.e.c.

F1270200	Environment Technology/Industry
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F1270201	Biodegradable Packaging
F1270202	Carbon Sequestration (Carbon Conversion)
F1270203	Cloud Seeding Technology

F1270204	Composting
F1270205	Environmentally-Friendly Products and Technologies
F1270206	Erosion Control
F1270207	Gaseous Treatment
F1270208	Geographical Information System (GIS)
F1270209	Incineration
F1270210	Integrated System and Building
F1270211	Landscape Technology
F1270212	Organic Waste Treatment
F1270213	Pollution Control Product
F1270214	Pollution Prevention and Control (Including Agricultural Chemicals, Basic Metal Products, Ceramic, Glass and Industrial Mineral Products, Communication Equipment, Computer Hardware and Electronic Equipment, Fabricated Metal Products, Fibre, Processing and Textiles; Footwear and Leather Products, Human Pharmaceutical Products, Incineration, Industrial Chemicals and Related Products, Instrumentation , Machinery and Equipment, Processed Food Products and Beverages, Quarry and Mining , Transport Equipment, Wood, Wood Products and Paper, Bio-Based Chemicals and Related Products, Building Materials and Bio-Based Pollution Control)
F1270215	Pollution Sensing Device
F1270216	Pyrolysis
F1270217	Reduction of Bad-Odour
F1270218	Reduction of Noise and Vibration
F1270219	Steep Slopes and Hill Development Technology
F1270220	Tropicalisation of Product and Process
F1270221	Water and Wastewater Treatment Technology
F1270222	Zero-Discharge Technology
F1270299	Other Environment Technology/ Industry n.e.c.

F1270300

Environment Management and Bioremediation

F1270301	Catchment Management (Including Water Catchments in The Forest)
F1270302	Coastal Management
F1270303	Disaster Management
F1270304	Drinking Water Quality Standards
F1270305	Drought Management
F1270306	Environmental Risk Assessment and Bionomics
F1270307	Environmental Standards
F1270308	Ex-Mining Land Management
F1270309	Flood Mitigation Management
F1270310	Hazardous Waste Management
F1270311	Industrial Water Management
F1270312	Integrated Water Resource Management
F1270313	Natural Resource Management
F1270314	Park Management
F1270315	Pest Management
F1270316	River Basin Management

F1270317	Soil Bioremediation
F1270318	Solid Waste Management
F1270319	Storm Water Management
F1270320	Waste Bioremediation
F1270321	Waste Management
F1270322	Water Body Management
F1270323	Water Resources Management
F1270324	Wildlife and Habitat Management
F1270399	Other Environmental Management and Bioremediation n.e.c.

F1270400	Advancement of Environmental Sciences Knowledge
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F1279900	Other Environment Sciences n.e.c.
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F1280000	MATERIAL SCIENCES
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F1280100	Electronic Materials
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F1280101	Electroactive Polymers
F1280102	Electrochemical Materials
F1280103	Electronic Packaging Materials
F1280104	Magnetic Materials
F1280105	Molecular Electronics
F1280106	Optoelectronic Materials
F1280107	Semiconductor Materials
F1280108	Superconductor Materials
F1280109	Thin-Film Dielectrics
F1280199	Other Electronic Materials n.e.c.

F1280200	Functional Materials
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F1280201	Adhesives
F1280202	Biocompatible Materials
F1280203	Catalyst
F1280204	Coating
F1280205	Display Materials
F1280206	Ear Mould Materials
F1280207	Electrchromic Materials
F1280208	Hard and Brittle Materials
F1280209	Magnetic Materials
F1280210	Optical Materials
F1280211	Soft and Brittle Materials
F1280299	Other Functional Materials n.e.c.

F1280300	Polymeric Materials
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F1280301	Adhesive, Coating and Ink
F1280302	Biopolymers
F1280303	Conducting Polymers
F1280304	Elastomers
F1280305	Inorganic Polymers

F1280306	Membranes
F1280307	Polymer Composites
F1280308	Polymer Electrolytes
F1280309	Thermoplastics
F1280399	Other Polymeric Materials n.e.c.

F1280400

Advanced Materials

F1280401	Biocompatible Materials/Biomaterials
F1280402	Ceramics
F1280403	Composite Materials
F1280404	Electro-Active Ceramics
F1280405	Epitaxy
F1280406	Metals and Metal Alloy Materials
F1280407	Nano Materials
F1280408	Photonics Materials
F1280409	Polymer Compounds
F1280410	Textile Compounds
F1280499	Other Advanced Materials n.e.c.

F1289900

Other Material Science n.e.c.

F1290000

MARINE SCIENCES

F1290100

Marine Biology

F1290101	Breeding of Marine Organisms
F1290102	Culture of Marine Organisms
F1290103	Marine Benthic Biology
F1290104	Marine Ecophysiology
F1290105	Marine Ichthyology
F1290106	Marine Mammalogy
F1290107	Marine Microbiology
F1290108	Marine Mycology
F1290109	Marine Parasitology
F1290110	Marine Phycology
F1290111	Marine Planktonology
F1290112	Marine Products (Including Sea Cucumber and Algae/Seaweed)
F1290113	Marine Productivity
F1290199	Other Marine Biology n.e.c.

F1290200

Marine Agriculture

F1290201	Mariculture
F1290202	Marine Ornamental Fishes
F1290203	Seagrass Culture
F1290204	Seaweed Culture
F1290299	Other Marine Agriculture n.e.c.

F1290300

Marine Technology

F1290301	Acoustic and Instrumentation
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	F1290302	Artificial Reefs and Fish Aggregating Devices
	F1290303	Biofouling/Structural Deterioration
	F1290304	Fishing Gear Technology
	F1290305	Marine Biofilters
	F1290306	Remote Sensing and GIS
	F1290399	Other Marine Technology n.e.c.
F1290400		Marine Biochemistry
	F1290401	Marine Bioproducts Synthesis
	F1290402	Marine Natural Products
	F1290499	Other Marine Biochemistry n.e.c.
F1290500		Marine Ecology
	F1290501	Benthic Ecology
	F1290502	Coral Reef Ecology
	F1290503	Ecotourism
	F1290504	Estuarine Ecology
	F1290505	Lagoon Ecology
	F1290506	Mangrove Ecology
	F1290507	Marine Conservation
	F1290508	Microbial Ecology
	F1290509	Population and Community Ecology
	F1290510	Seagrass and Seaweed Ecology
	F1290511	Tidal Flats Ecology
	F1290599	Other Marine Ecology n.e.c.
F1290600		Marine Toxicology
	F1290601	Control of Pests, Diseases and Exotic Species in Marine Environment
	F1290602	Endocrine Disruptors
	F1290603	Harmful Algal Blooms (HABs) and Toxins
	F1290604	Indicators and Biomonitoring
	F1290605	Marine Poisonous Organisms
	F1290606	Natural Hazards in Marine Environment
	F1290699	Other Marine Toxicology n.e.c.
F1290700		Oceanography
	F1290701	Biological Oceanography
	F1290702	Chemical Oceanography
	F1290703	Coastal Oceanography and Processes
	F1290704	Fisheries Oceanography
	F1290705	Geological Oceanography
	F1290706	Hydrodynamic and Sedimentation Modelling
	F1290707	Hydrography Survey
	F1290708	Land-Sea Interactions and Processes
	F1290709	Marine Pollution
	F1290710	Meteorological Oceanography
	F1290711	Oceanography Instrumentation
	F1290712	Optical Oceanography
	F1290713	Physical Oceanography

	F1290714	Satellite Oceanography
	F1290715	Stock Assessment Survey
	F1290799	Other Oceanography n.e.c.
F1290800		Marine Chemistry
	F1290801	Carbon Sequestration
	F1290802	Ecotoxicology
	F1290803	Establishment of Marine Standard Reference Materials
	F1290804	Eutrophication
	F1290805	Heavy Metals
	F1290806	Petrochemical and Hydrocarbon
	F1290807	Radioactive Contaminants
	F1290808	Seawater and Sediment Chemistry
	F1290899	Other Marine Chemistry n.e.c.
F1290900		Marine Geology
	F1290901	Geochemistry
	F1290902	Mapping and GIS
	F1290903	Marine Oceanic Processes
	F1290904	Mineralogy
	F1290905	Palaeontology
	F1290906	Sediment Dating
	F1290907	Sediment Transport
	F1290908	Seismology
	F1290909	Tracer Application
	F1290999	Other Marine Geology n.e.c.
F1291000		Marine Economics
	F1291001	Cost-Benefits Evaluation
	F1291002	Ecological Valuation
	F1291003	Fisheries Economics
	F1291099	Other Marine Economics n.e.c.
F1291100		Marine Archeology
	F1291101	Artefacts Dating
	F1291102	Artefacts Preservation
	F1291103	Exploration Technology
	F1291199	Other Marine Archeology n.e.c.
F1291200		Coastal Zone Management
	F1291201	Coastal Habitats Management
	F1291202	Ecosystem Based Management
	F1291203	Environmental Impact Assessment (EIA)
	F1291204	Integrated Coastal Zone Management
	F1291205	Pollution Management
	F1291206	Protected Conservation Areas in Marine Environments
	F1291207	Risk Analysis
	F1291208	Socio-Economics of Coastal Communities
	F1291209	Sustainable Utilisation of Marine Resources

F1291299	Other Coastal Zone Management n.e.c.
F1291300	Marine Laws and Policies
F1291301	Code of Conduct for Responsible Fisheries and Aquaculture Practices
F1291302	Exclusive Economic Zone (EEZ)
F1291303	Law of the High Seas
F1291304	Marine Regulation on Alien Species
F1291305	Marine Territory Disputes and Settlement
F1291306	Marine Water Quality Standards and Criteria
F1291307	National Biodiversity Policy
F1291308	Policies on Transboundary Pollution and Shared Stocks
F1291399	Other Marine Laws and Policies n.e.c.
F1291400	Advancement of Marine Sciences Knowledge
F1291401	Essential Fish Habitats
F1291402	Larval Biology
F1291403	Marine Archaeology
F1291404	Marine Biodiversity, Conservation and Management
F1291405	Marine Biotechnology
F1291406	Marine Pollution
F1291407	Marine Radioactivity
F1291408	Physical Oceanography
F1291409	Sea Level Changes
F1291410	Seabed Properties and Stability
F1291411	Tsunami
F1291499	Other Advancement of Marine Sciences Knowledge n.e.c.
F1291500	Estuaries and Coasts
F1291501	Coastal Erosion
F1291502	Hydrodynamics and Mixing Processes
F1291503	Mangrove Habitats
F1291504	Morphology Charges
F1291505	Mud Flat and Cohesive Sediment
F1291506	Pollution Transport and Modeling
F1291507	Sediment Transport
F1291599	Other Estuaries and Coasts n.e.c.
F1291600	Marine Atmosphere
F1291601	Aerosol
F1291602	Cosmogenic Isotopes
F1291603	Radiation
F1291604	Sterol
F1291699	Other Marine Atmosphere n.e.c.
F1291700	Maritime Management
F1291701	Fishing Port Management
F1291702	Harbour Management
F1291703	Shipping Management
F1291799	Other Maritime Management n.e.c.

F1291800	Marine Social, Education and Awareness
F1291801	Education and Awareness of Coastal Communities
F1291802	Immigrants and Coastal Communities
F1291803	Marine Ecotourism
F1291804	Marine Indigenous Culture
F1291899	Other Marine Social, Education and Awareness n.e.c.
F1291900	Marine Navigation and Nautical Science
F1291901	Marine Astronomy
F1291902	Marine Crew Training
F1291903	Marine Navigational Expertise
F1291999	Other Marine Navigation and Nautical Science n.e.c.
F1292000	Marine Underwater Technology
F1292001	Autonomous Underwater Vehicle
F1292002	Marine Robotics
F1292003	SCUBA Diving Technology
F1292004	Underwater Sensor Technology
F1292099	Other Marine Underwater Technology n.e.c.
F1292100	Marine Alien Species
F1292101	Ballast Water
F1292102	Marine Invasive Alien Species
F1292199	Other Marine Alien Species n.e.c.
F1299900	Other Marine Sciences n.e.c.

CATEGORY	GROUP	AREA	SUBJECT
F2100000			BIOTECHNOLOGY
	F2100100		Molecular Biology
		F2100101	Gene Isolation
		F2100102	Gene Probes
		F2100103	Gene Transformation
		F2100104	Genomic
		F2100105	Microarray
		F2100106	Molecular and Structural Biology
		F2100107	Oligoarray
		F2100108	Proteomics
		F2100109	Transgenic Studies
		F2100199	Other Molecular Biology n.e.c.
	F2100200		Plant Biotechnology
		F2100201	Anther Culture
		F2100202	Artificial Seeds
		F2100203	Cryopreservation
		F2100204	Micropropagation
		F2100205	Molecular Marker
		F2100206	Post Harvest Technology
		F2100207	Protoplast Technology
		F2100208	Tissue Culture
		F2100209	Transgenic Plant (Including Transgenic Crops from the Aspects of Pest and Disease Resistance, Increase Shelf Life, Colour and Nutritional Enhancement, Drought, Salinity and Flooding Resistance)
		F2100299	Other Plant Biotechnology n.e.c.
	F2100300		Animal Biotechnology
		F2100301	Animal Cloning
		F2100302	Animal Diseases Diagnostic
		F2100303	Biofeed
		F2100304	Cell Line Culture
		F2100305	Cryopreservation
		F2100306	Feed and Nutrition
		F2100307	Reproduction
		F2100308	Transgenic Animal
		F2100309	Vaccine
		F2100399	Other Animal Biotechnology n.e.c.
	F2100400		Industrial and Environmental Biotechnology
		F2100401	Biocatalyst
		F2100402	Biocontrol Agent
		F2100403	Bioconversion
		F2100404	Biofeedstocks

F2100405	Biofertilizer
F2100406	Biofuel
F2100407	Bioplastic
F2100408	Bioprocess Design
F2100409	Bioremediation
F2100410	Biosensor
F2100411	Bioseparation
F2100412	Biosurfactant
F2100413	Cell Culture Technology
F2100414	Composting
F2100415	Design Technology
F2100416	Downstream Processing
F2100417	Enzyme Technology
F2100418	Fermentation Technology
F2100419	Immobilised Technology
F2100420	Product Recovery
F2100421	Solid Substrate Technology
F2100422	Submerged Fermentation
F2100499	Other Industrial and Environmental Biotechnology n.e.c.
F2100500	Medical Biotechnology
F2100501	Biomaterial
F2100502	Diagnostics
F2100503	Gene Therapy
F2100504	Graft Engineering
F2100505	Human/Population Genetics
F2100506	Nano Drug
F2100507	Regenerative Technology
F2100508	Stem Cell Technology
F2100509	Vaccines
F2100599	Other Medical Biotechnology n.e.c.
F2100600	Forensic Biotechnology
F2100601	Databasing
F2100602	DNA Archiving
F2100603	DNA Damage
F2100604	DNA Probe Technology
F2100605	Forensic Genetics
F2100606	Forensic Statistics
F2100607	Human Identification Systems
F2100608	Marine Forensic
F2100609	Plant Forensic
F2100610	Population Genetics
F2100611	Trace and Contact DNA
F2100612	Wildlife Forensic
F2100699	Other Forensic Biotechnology n.e.c.
F2100700	Food Biotechnology
F2100701	Algal Products

F2100702	Bioconversion
F2100703	Bioprocessing
F2100704	Bioreactor
F2100705	Biosensor
F2100706	Cell Culture Technology
F2100707	Enzyme Technology
F2100708	Functional Food
F2100709	Immobilised Technology
F2100710	Microbial Technology
F2100711	Mushroom Products
F2100712	Nutraceuticals
F2100713	Post Harvest Technology
F2100714	Product Recovery
F2100715	Solid Substrate Fermentation
F2100716	Submerged Fermentation
F2100799	Other Food Biotechnology n.e.c.
F2100800	Biopharmacy Biotechnology
F2100801	Biopharmaceuticals
F2100802	Biopharming
F2100803	Drug Discovery
F2100804	Transgenic Drugs
F2100899	Other Biopharmacy Biotechnology n.e.c.
F2100900	Marine Biotechnology
F2100901	Algae
F2100902	Biopharmaceuticals
F2100903	Cryopreservation
F2100904	Genetic Manipulation
F2100905	Marine Bioprospecting
F2100906	Marine Food Biosafety
F2100907	Marine Genomic
F2100908	Marine Microbial Genetics
F2100909	Marine Pharmaceutical Products
F2100910	Marine Products
F2100911	Molecular Systematics
F2100999	Other Marine Biotechnology n.e.c.
F2101000	Biosafety, Biosecurity and Bioethics
F2101001	Eugenics
F2101002	Job Safety Analysis
F2101003	Public Awareness
F2101004	Risk Assessment
F2101005	Risk Management
F2101099	Other Biosafety, Biosecurity and Bioethics n.e.c.
F2101100	Biosurveillance
F2101101	Animal Surveillance
F2101102	Biosurveillance Technology

F2101103	Food Safety Surveillance
F2101104	Mortality Surveillance
F2101105	Open Source Monitoring
F2101106	Pathogen Detection Surveillance
F2101107	Policy and Regulation
F2101108	Radiation Surveillance
F2101109	Syndromic Surveillance
F2101199	Other Biosurveillance n.e.c.

F2109900	Other Biotechnology n.e.c.
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CATEGORY	GROUP	AREA	SUBJECT
F3010000			ENGINEERING AND TECHNOLOGY
	F3010100		Mechanical Engineering
		F3010101	Air-Conditioning and Refrigeration
		F3010102	Combustion and Fuels
		F3010103	Hydraulic and Pneumatics
		F3010104	Industrial Tribology
		F3010105	Internal Combustion Engines
		F3010106	Machine Design
		F3010107	Mechanical Control
		F3010108	Stress Analysis
		F3010109	Wear and Tear
		F3010199	Other Mechanical Engineering n.e.c.
	F3010200		Chemical Engineering
		F3010201	Biochemical Process
		F3010202	Catalyst and Reactions
		F3010203	Chemical Processes
		F3010204	Chemical/ Physical Modification
		F3010205	Heat/ Mass Transfer Operations
		F3010206	Industrial Chemical Production
		F3010207	Plant Design and Testing
		F3010208	Polymerisation Process
		F3010209	Process Control
		F3010210	Raw Materials Processing
		F3010211	Separation Process
		F3010299	Other Chemical Engineering n.e.c.
	F3010300		Mining and Mineral Processing Engineering
		F3010301	Extractive Metallurgy
		F1070302	Mineral Evaluation/Appraisal
		F1070303	Mineral Processing
		F1070304	Mining Process
		F1070305	Precious Metals Recovery
		F1070399	Other Mining and Mineral Processing Engineering n.e.c.
	F3010400		Civil Engineering
		F3010401	Coastal and Offshore
		F3010402	Construction Techniques
		F3010403	Foundation
		F3010404	Geology and Rock
		F3010405	Geotechniques
		F3010406	Highway
		F3010407	Hydrology and Hydraulic Engineering
		F3010408	Infrastructural Engineering (Including Equipment and Infrastructure for Defence System such as Materials and Advanced Materials, Bridge

Defence System such as Materials and Advanced Materials, Bridge System, Industrialised Construction System Connection System, Bunkers and Underground Structures, Blast Resistance Buildings, Under Water Structures and Coastal Protection Structures)

F3010409 River Engineering/Integrated River Basin Management
F3010410 Structures
F3010411 Traffic
F3010412 Traffic Planning and Management
F3010413 Transportation
F3010414 Water Resources Management/ Integrated Water Resources Management
F3010499 Other Civil Engineering n.e.c.

F3010500

Electrical and Electronic Engineering

F3010501 Autonomous System
F3010502 Control and System
F3010503 Device Fabrication and Process
F3010504 Device Physics
F3010505 Digital and Analogue Electronics
F3010506 Discrete Device
F3010507 Embedded System
F3010508 High Voltage
F3010509 IC Design
F3010510 Image Processing
F3010511 Instrumentation
F3010512 Lab-On-Chip (LOC)
F3010513 Machines and Drives
F3010514 Microelectronics
F3010515 Power Electronics
F3010516 Power System
F3010517 Radio Frequency (RF) and Microwaves
F3010518 Robotics and Mechatronics
F3010519 Security System
F3010520 Sensors
F3010521 Signal Processing
F3010522 System-On-Chip (SOC)
F3010599 Other Electrical and Electronic Engineering n.e.c.

F3010600

Agricultural Engineering

F3010601 Agro-Waste Management
F3010602 By-Product Utilisation
F3010603 Farm Estate Planning
F3010604 Farm Machinery
F3010605 Mechanisation System
F3010606 Non-Destructive Testing (NDT)
F3010607 Post Harvest Handling
F3010608 Precision Farming
F3010609 Storage and Transportation
F3010699 Other Agricultural Engineering n.e.c.

F3010700	Food Engineering
F3010701	Engineering Properties of Food and Biological Materials
F3010702	Extraction System
F3010703	Food Dehydration
F3010704	Food Engineering Unit Operations
F3010705	Food Extrusion
F3010706	Food Mechanisation
F3010707	Food Preservation
F3010708	Food Process Control and Automation
F3010709	Food Processing Plant and Machinery Design (Including Manufacturing of Machinery and Equipment for Food Processing)
F3010710	Food Transfer Process
F3010711	Genetically Modified Food
F3010712	Packaging and Handling Technology
F3010713	Radiation Processing
F3010714	Storage and Secondary Processing
F3010715	Thermal Processing
F3010716	Waste Handling and Processing
F3010799	Other Food Engineering n.e.c.
F3010800	Environmental Engineering
F3010801	Factory Environment
F3010802	Green Manufacturing (Including Water Footprint, Carbon Footprint)
F3010803	Indoor Air Quality
F3010804	Life Cycle Analysis
F3010805	River Rehabilitation
F3010806	Sustainable Sanitation
F3010807	Water Sanitary
F3010808	Zero Emissions
F3010899	Other Environmental Engineering n.e.c.
F3010900	Marine Engineering
F3010901	Coastal and Offshore
F3010902	Hydroinformatics
F3010903	Marine Transport
F3010904	Naval Architecture
F3010905	Oceanography
F3010906	Ports and Harbour
F3010907	Ship and Platform Hydrodynamics
F3010908	Ship and Platform Structure
F3010909	Submersible Vehicle
F3010999	Other Marine Engineering n.e.c.
F3011000	Industrial and Manufacturing Engineering
F3011001	CAD/CAM/CAE Applications
F3011002	Casting
F3011003	Cutting Tool Technology

F3011004	Design for Manufacturing and Assembly
F3011005	Ergonomic
F3011006	Fabrication Technology (Including Manufacturing of High Speed/ Precision Equipment Fabrication Machinery and Equipment and Standard Supporting Technologies of Fabrication for Metal and Plastic)
F3011007	Forging
F3011008	Foundry Technology
F3011009	Gerontechnology (Including R&D for Advancement of Knowledge in Gerontechnology)
F3011010	Grinding
F3011011	Latex Products Processing Manufacturing
F3011012	Machining/Rapid Prototyping and Tooling (Including Standard Supporting Technologies of Precision Machining and Micro Machining)
F3011013	Milling and Process Materials
F3011014	Mould and Die
F3011015	OSH Requirement
F3011016	Packaging Technology and Materials
F3011017	Plastic Moulding Technology
F3011018	Polishing
F3011019	Powder Metallurgy
F3011020	Precision Engineering
F3011021	Production Process
F3011022	Productivity Measurement
F3011023	Quality Assurance
F3011024	Reverse Engineering (Including Standard Supporting Technology)
F3011025	Surface Engineering
F3011026	Textile
F3011027	Thixo-Moulding
F3011028	Virtual Manufacturing
F3011099	Other Industrial and Manufacturing Engineering n.e.c.

F3011100

Automotive Engineering

F3011101	Automotive Control
F3011102	Automotive Design
F3011103	Automotive Prototyping
F3011104	Auxiliary Components
F3011105	Braking System
F3011106	By-Wire Technology
F3011107	Chassis Engineering
F3011108	Collision Avoidance Technology
F3011109	Commercial Vehicles and Trucks
F3011110	Drivetrain Engineering
F3011111	Electric Vehicles
F3011112	Emission Control
F3011113	Engine Management System
F3011114	Fuelling/ Intake Systems

F3011115	Hybrid Vehicles
F3011116	Instrument Cluster Technology
F3011117	Intelligent Vehicle
F3011118	In-Vehicle Entertainment System
F3011119	Lightings
F3011120	Motorsports Engineering
F3011121	Noise, Vibration and Harshness (NVH)
F3011122	Off-Road Vehicles
F3011123	Onboard Navigation
F3011124	Performance, Evaluation and Optimisation
F3011125	Safety Technology
F3011126	Stability Control
F3011127	Suspension System
F3011128	Telematics
F3011129	Turbo and Supercharging Technology
F3011130	Tyre Technology
F3011131	Valvetrain Engineering
F3011199	Other Automotive Engineering n.e.c.

F3011200

Geomatic Engineering

F3011201	Cartography
F3011202	Deformation Monitoring
F3011203	Fast Mapping
F3011204	Geodesy and Geodetic Controls
F3011205	Geometry, Radiometry Calibration Analysis
F3011206	Hydrography
F3011207	Industrial and Automated Measurement System
F3011208	Laser Measurement
F3011209	Surveying
F3011210	Navigation and Positioning System
F3011211	Photogrammetry
F3011212	Remote Sensing
F3011213	Spatial Data Modelling and Databasing
F3011214	Spatial Information Systems
F3011215	Surveying and Mapping
F3011299	Other Geomatic Engineering n.e.c.

F3011300

Metallurgy

F3011301	Heat Treatment
F3011302	Material Recyclability
F3011303	Metal
F3011304	Metallurgy Process
F3011305	Physical Metallurgy
F3011306	Powder Metallurgy
F3011307	Smelting
F3011308	Specialty Alloy
F3011309	Surface Treatment
F3011399	Other Metallurgy n.e.c.

F3011400**Biomedical Engineering**

F3011401	Artificial Intelligent Screening
F3011402	Artificial Organs & Prosthetics
F3011403	Biocomputing and Biochips
F3011404	Biological Data Mining and Visualisation
F3011405	Biomechanics
F3011406	Biomedical Signals
F3011407	Biomedical Systems
F3011408	Biometrics
F3011409	Biophotonic Technology
F3011410	Clinical
F3011411	Computer Assisted Intervention Systems
F3011412	Computer Tomography
F3011413	Decision Support Systems
F3011414	Diagnostic and Prognostic Systems and Tools
F3011415	Health Monitoring
F3011416	Implant
F3011417	Mass Screening Systems and Tools
F3011418	Medical Imaging
F3011419	Physiological Process and Modelling
F3011420	Plasma Medicine
F3011421	Radiological Technology
F3011422	Rehabilitation
F3011423	Support System Technology
F3011424	Surgical Technology
F3011425	Telemedicine Technology
F3011426	Therapeutic Systems
F3011427	Tissue Engineering
F3011428	Treatment Technology
F3011429	Virtual Reality
F3011430	Wearable Healthcare Systems
F3011499	Other Biomedical Engineering n.e.c.

F3011500**Computer Engineering**

F3011501	Antenna Design
F3011502	Arithmetic and Logic Structures
F3011503	Board Design
F3011504	Control Structures and Microprogramming
F3011505	Display Technology
F3011506	Input, Output and Data Devices
F3011507	Logic Design
F3011508	Memory Structures
F3011509	Mobile Communication Devices
F3011510	Multi-Processor
F3011511	Neural Network Computer
F3011512	Processor Architectures
F3011513	Quantum Computer
F3011514	Redundant Array of Independent Disks (RAID)
F3011515	Wearable Computer

F3011599 Other Computer Engineering n.e.c.

F3011600

Communication Engineering

F3011601 Antenna Technology
F3011602 Broadband Networks
F3011603 Digital Communications Networks
F3011604 Microwave and Millimetrewave Technology
F3011605 Optical and Photonic Systems
F3011606 Radio Communications and Broadcasting
F3011607 Radio Frequency and Wireless Systems
F3011608 Satellite Communications
F3011699 Other Communication Engineering n.e.c.

F3011700

Space Science and Space Engineering

F3011701 Celestial and Orbital Mechanics
F3011702 Experimental and Scientific Satellites
F3011703 Ionospheric and Magnetospheric Science
F3011704 Propulsion
F3011705 Solar-Terrestrial Interaction
F3011706 Space Launchers and Vehicles
F3011707 Space Probes Design and Engineering
F3011799 Other Space Science and Engineering n.e.c.

F3011800

Interdisciplinary Engineering

F3011801 Acoustic Engineering
F3011802 Biomimetics
F3011803 Fluid Mechanics
F3011804 Fluidisation
F3011805 Forensic Engineering
F3011806 Heat and Mass Transfer Operations
F3011807 Metrology
F3011808 Non-Destructive Testing (NDT)
F3011809 Optical Engineering
F3011810 Power Plant Engineering
F3011811 System Engineering
F3011812 Thermodynamics
F3011813 Turbulent Flows
F3011899 Other Interdisciplinary Engineering n.e.c.

F3011900

Advancement of Knowledge Engineering Sciences

F3019900

Other Engineering and Technology Sciences n.e.c.

F3020000

APPLIED SCIENCES AND TECHNOLOGIES

F3020100

Aerospace

F3020101 Advance and Emerging Methods (Including Quantitative Analysis such as Forecasting, Modelling, Inference, Data Mining, Survey Techniques)

as Forecasting, Modelling, Inference, Data Mining, Survey Techniques (Complex Survey, Rank Set Sampling, Market Survey), and Performance Measurement (Hierarchical Modelling, Data Envelopment Analysis, Stochastic Frontier Analysis and Risk Analysis))

F3020102	Advanced Materials-Composite Special Alloys
F3020103	Advancement of Aerospace Knowledge
F3020104	Aerodynamics
F3020105	Aeroelasticity
F3020106	Aeronautical Technology
F3020107	Aerospace Electrical Systems
F3020108	Aerospace Manufacturing (Including Manufacturing of Transportation Component for Defence and Security System e.g Rotary and Fixed Wing and Instrumentation Manufacturing such as On-Board Computer for Satellites)
F3020109	Aerospace Materials
F3020110	Aerospace Structures
F3020111	Aircraft Design
F3020112	Aircraft Performance
F3020113	Assembly, Integration and Test (AIT) System
F3020114	Avionics
F3020115	Computational Fluid Dynamics
F3020116	Earth Observation System (EOS)
F3020117	Experimental Aerodynamics
F3020118	Flight Control Systems
F3020119	Flight Dynamics
F3020120	Ground and Space Stations
F3020121	Intelligent Navigation System
F3020122	Missile Systems
F3020123	Rocketry
F3020124	Satellite and Spacecraft Design
F3020125	Sensor
F3020126	Thermal System
F3020127	Unmanned Aerial Vehicle
F3020199	Other Aerospace n.e.c.

F3020200

Process Technology

F3020201	Bioprocess Engineering
F3020202	Control Technology
F3020203	Drying Technology
F3020204	Extraction Technology
F3020205	Fermentation Technology
F3020206	Green Technology
F3020207	Hazard Analysis and Risk Assessment
F3020208	Joining Technology
F3020209	Material Processing Technology
F3020210	Microwave Technology
F3020211	Printing Technology
F3020212	Process Control
F3020213	Roasting Technology

F3020214	Separation Technology (Including Membrane Technology)
F3020215	Supercritical Fluid Technology
F3020216	Supermagnet Processing
F3020217	Textile Technology
F3020218	Welding Technology (Including Standard Supporting Technology for Heat Treatment and Welding Technologies)
F3020299	Other Process Technology n.e.c.
F3020300	Resource-Based Technology
F3020301	Commodity Crops
F3020302	Oils and Fats
F3020303	Petroleum and Gas
F3020304	Rubber
F3020305	Water (Including Bio-Defence Technology)
F3020306	Wood and Non Wood-Based Forest Products
F3020399	Other Resource-Based Technology n.e.c.
F3020400	Energy Technology
F3020401	Biomass Energy Technology (Including Biogas and Biofuel)
F3020402	Coal Energy Technology
F3020403	Electrical Power Generation and Supply
F3020404	Energy Management and Audit
F3020405	Energy Storage
F3020406	Energy Transportation
F3020407	Fuel Cell
F3020408	Geo-Thermal
F3020409	Hydro Power Technology
F3020410	Natural Gas Technology
F3020411	Solar Energy Technology
F3020412	Waste Heat Recovery
F3020413	Wind
F3020499	Other Energy Technology n.e.c.
F3020500	Water Technology
F3020501	Disinfection
F3020502	Reclamation, Reuse and Recycling
F3020503	Wastewater Treatment
F3020504	Water Delivery System
F3020505	Water Enrichment
F3020506	Water Filtration
F3020507	Water Meters
F3020508	Water Treatment
F3020599	Other Water Technology n.e.c.
F3020600	Nanotechnology
F3020601	Molecular Devices
F3020602	Nano Delivery
F3020603	Nano Devices and Systems
F3020604	Nano Materials

F3020605	Nano Medicine
F3020606	Nano Optics
F3020607	Nano Photonic
F3020608	Nano Structured Materials
F3020609	Nanobiotechnology
F3020610	Nanoelectronics
F3020611	Nanomanufacturing
F3020612	Nanometrology
F3020613	Nanoscale Characterisation
F3020614	Nanotoxicology Health and Safety
F3020615	Quantum Device
F3020699	Other Nanotechnology n.e.c.

F3020700

Engineering Materials

F3020701	Alloy Materials
F3020702	Biocomposite
F3020703	Biomaterial
F3020704	Bitumen and Asphalt
F3020705	Bricks
F3020706	Ceramics
F3020707	Composite Materials
F3020708	Concrete
F3020709	Glass and Glass Ceramics
F3020710	Glue and Adhesive
F3020711	Lightweight Concrete
F3020712	Mineral and Chemical Admixtures
F3020713	Non-Ferrous Metals
F3020714	Optical Material
F3020715	Pipe material
F3020716	Polymers
F3020717	Refractories
F3020718	Rubber
F3020719	Steel
F3020720	Superconducting Material
F3020721	Timber
F3020799	Other Engineering Materials n.e.c.

F3020800

Architecture

F3020801	Building Design
F3020802	Built Environment
F3020803	Design for Disables
F3020804	Design Management and Professional Practice
F3020805	Green Building
F3020806	Heritage and Conservation
F3020807	High Rise and Intelligent Building
F3020808	Hospital Design
F3020809	Indigenous Architecture
F3020810	Interior and Environment Design
F3020811	Open Building

F3020899	Other Architecture n.e.c.
F3020900	Urban Planning
F3020901	Facilities for Disabled
F3020902	Land Use
F3020903	Planning Administration and Practice
F3020904	Planning of Construction (Including Commercial Building, Community Planning, Construction Open Building, Development Models, Environmental Sustainable Habitat, Industrial Building, Seaport and Airport, Residential, Residential and Public Building, Road, Bridge and Highway, Spatial and Physical Planning, Urban Renewal, Integrated Construction, Intelligent Building, Land Reclamation and Land Readjustment, Dam and Irrigation Systems)
F3020905	Public Transport
F3020999	Other Urban Environmental Planning n.e.c.
F3021000	Landscape Architecture and Planning
F3021001	Ecotourism
F3021002	Landscape Ecology
F3021003	Landscape Management
F3021004	Landscape Planning
F3021005	Landscape Technology
F3021006	Parks and Recreation
F3021007	Therapeutic Garden
F3021099	Other Landscape Architecture and Planning n.e.c.
F3021100	Construction and Project Management
F3021101	Building Economics
F3021102	Building Management and Services of Construction (Including of Commercial Building Management Services, Housing Management Services, Industrial Building Management Services, Industrialised Building/ Construction System (IBS/ICS), Structural Products (Wall/Floor Tiles, Roofing Tiles)
F3021103	Construction Materials
F3021104	Construction Processes (Including of Commercial Building Construction Processes, Housing Construction Processes, Industrial Building Construction Processes, Industrialised Building/Construction System, K-Based Construction, Seaport and Airport Construction Processes, Road and Highway Construction Processes, Standard Regulation and Legislation and Construction Waste Materials)
F3021105	Design of Construction (Including of Bridges, Commercial Building, Construction, High Rise Building, Industrial Building, Industrialised Building/Construction System (IBS/ ICS), Port and Airport, Residential, Residential and Public Building, Road and Highway, Seismic and Dynamic Resistant, Structural Design and Assessment, Smart Building, Intelligent Building, Dam and Irrigation Systems)

Intelligent Building, Dam and Irrigation Systems)

F3021106	Facilities Management
F3021107	Project Management and Costing
F3021108	Quantity Surveying
F3021109	Real Estate
F3021110	Value Management
F3021199	Other Construction and Project Management n.e.c.

F3021200 Geographical Information System (GIS)

F3021201	Remote Sensing
F3021299	Other Geographical Information System (GIS) n.e.c.

**F3021300 Advancement of Knowledge in Applied Sciences and Technologies
(Including Aerospace, Nanotechnology, Microwave)**

F3029900 Other Applied Sciences and Technologies n.e.c.

CATEGORY	GROUP	AREA	SUBJECT
F4010000			INFORMATION, COMPUTER AND COMMUNICATIONS TECHNOLOGY (ICT)
	F4010100		Information Systems
		F4010101	Agent Technology
		F4010102	Agricultural Information System (AIS) (Including Information-Based Agricultural Services)
		F4010103	Data Exchange Format
		F4010104	Decision Support System
		F4010105	Electronic Information Storage and Retrieval Services
		F4010106	Executive Information System
		F4010107	Geographic Information System (GIS) (Including of Digital Data, Digital Model, Environmental Information and Value Information, Map, Precise Measurement, Resource-Based Information, Spatial Databased, Strategic Information and Geo-PP System GPS))
		F4010108	Grid Application
		F4010109	Information Services (Including Including Informtion Services, Library Services, Bioinformation Services, Bussines Intelligence Services, Collaborative Computng Services, Political Information Services, Social and Community Informtion Services and Internet)
		F4010110	Management Informtaion System
		F4010111	Rural Informatics
		F4010112	Search Engine
		F4010113	Semantic Grid
		F4010114	Telemedicine
		F4010115	Tomography
		F4010199	Other Information Systems n.e.c.
	F4010200		ICT Infrastructure
		F4010201	Computer System Organisation
		F4010202	Data Communication Device
		F4010203	Optical Computing
		F4010204	Sensor Networks
		F4010299	Other ICT Infrastucture n.e.c.
	F4010300		Software
		F4010301	Compilers and Interpreters
		F4010302	Computer Aided Software Engineering (CASE) Tools
		F4010303	Computer Aided System
		F4010304	Decision Support System
		F4010305	Embedded Systems
		F4010306	Object Oriented Technology
		F4010307	Open Systems Software
		F4010308	Operating Systems
		F4010309	Programming Languages

F4010310 Programming Techniques
 F4010311 Safety Critical Software
 F4010312 Simulation System
 F4010313 Software Agents
 F4010314 Software Engineering
 F4010399 Other Software n.e.c.

F4010400

Emergent Information Technology

F4010401 4D, 5D, Nth Dimension Modelling
 F4010402 Ad-Hoc Computing (Including Vehicular Ad-Hoc Network (VANET),
 Mobile Ad-Hoc Network(MANET))
 F4010403 Autonomous Computing
 F4010404 High Performance Computing
 F4010405 High Speed Network
 F4010406 Human Computer Interaction (HCI)
 F4010407 Intelligent Database
 F4010408 Knowledge Base
 F4010409 Moddeware Technology
 F4010410 Mobile Computing
 F4010411 Multi-Protocol Label Switching (MPLS)
 F4010412 Natural Language
 F4010413 Parallel Architecture and Processing
 F4010414 Pervasive Computing
 F4010415 Quantum Computing
 F4010499 Other Emergent Information Technology n.e.c.

F4010500

Communication

F4010501 Asynchronous Transmission Mode
 F4010502 Audio/Voice Communication
 F4010503 Barcode
 F4010504 Coding and Information Theory
 F4010505 Communication Protocols
 F4010506 Communication Services (Including of Broadcasting, Postal
 Communication, Tele-Education, Tele-Working, Multiservice
 Convergence Network, 3G Cellular Networks, Internet Protocol, Short-
 Range Communivation, VOIP, Teleport and Tele-Health)
 F4010507 Communication Software
 F4010508 Data Communication Device
 F4010509 Electromagnetic Compatibility (EMC)
 F4010510 Equipments (*Including BroadcastingEquipment, Radio and Radio
 Frequency Identification (RFID), Nano Equipment*)
 F4010511 Ethernet Technology
 F4010512 Financial Information Grid
 F4010513 High Performance Computing
 F4010514 High Speed Network
 F4010515 Human-Machine Interfacing
 F4010516 Integrated Communication Device
 F4010517 Integrated Service Digital Network (ISDN)
 F4010518 Mobile Network Technology

F4010519 New IPTV/WebTV
F4010520 Open System Interconnecting (OSI) Model
F4010521 Routers Technology
F4010522 Switched Networks
F4010599 Other Communications n.e.c.

F4010600

Security System

F4010601 Authentication System
F4010602 Biometrics Security System
F4010603 Computer Forensic
F4010604 Cryptography
F4010605 Digital Signatures
F4010606 Encryption System
F4010607 Firewalls
F4010608 Hacking
F4010609 Intrusion Detection System
F4010610 Intrusion Prevention System
F4010611 Malware, Worms and Viruses
F4010612 National Security (Including Health Aspects such as Medicine and Medical Supply, Disaster Preparedness and Imported Diseases)

F4010613 Security Protocols
F4010614 Security Services (*Including Digital Forensic, Steganography, Network Security, Public Key Infrastructure and Biometrics*)

F4010615 Smart System
F4010616 Surveillance System
F4010699 Other Security System n.e.c.

F4010700

Artificial Intelligence

F4010701 Cognitive Science
F4010702 Computational Linguistic
F4010703 Expert Systems
F4010704 Logic Programming
F4010705 Machine Learning
F4010706 Natural Language
F4010707 Natural Language Processing
F4010708 Neural, Evolutionary and Fuzzy Computation
F4010709 Parallel Architecture and Processing
F4010710 Predictive Analytics
F4010711 Soft Computing
F4010799 Other Artificial Intelligence n.e.c.

F4010800

Signal Processing

F4010801 Algorithms and Techniques
F4010802 Data Hiding and Steganography
F4010803 Detection and Estimation
F4010804 Digital Signal Processing
F4010805 Filters
F4010806 Pattern Recognition and Image Recognition
F4010807 Signal Analysis and Processing

	F4010808	Speech Recognition
	F4010809	Watermarking Techniques
	F4010899	Watermarking Techniques
F4010900		Computation Theory and Mathematics
	F4010901	Analysis of Algorithms and Complexity
	F4010902	Computational Economics
	F4010903	Computer Aided Geometrical Design
	F4010904	Discrete Mathematics
	F4010905	Logics and Meanings of Programs
	F4010906	Mathematical Logic and Formal Language
	F4010907	Mathematics Software
	F4010908	Numerical Analysis
	F4010909	Simulation and Modeling
	F4010910	Symbolic and Algebraic Manipulation
	F4010999	Other Computation Theory and Mathematics n.e.c.
F4010000		Data Management
	F4011001	Compression Technology
	F4011002	Data Encryption
	F4011003	Data Recovery and Backup
	F4011004	Data Security
	F4011005	Data Storage and Representations
	F4011006	Data Structures
	F4011007	Files Management Representation and Organisation
	F4011008	Knowledge Base
	F4011099	Other Data Management n.e.c.
F4011100		Database Technology
	F4011101	Data Mining
	F4011102	Data Warehousing
	F4011103	Database
	F4011104	Distributed Database
	F4011105	Intelligent Database
	F4011106	Mobile Database
	F4011107	Multidimensional Database
	F4011199	Other Database Technology n.e.c.
F4010200		ICT Policy and Social Impact
	F4011201	Augmenting Individuals and Transforming Societies
	F4011202	Digital Divide and E-Inclusion
	F4011203	E-Community
	F4011204	E-Strategy
	F4011205	ICT Ethics
	F4011206	ICT Law
	F4011207	ICT Outsourcing
	F4011208	ICT Policies
	F4011209	Information System (IS) Planning
	F4011210	Intellectual Property Rights
	F4011211	Open System Standards

F4011212 Social Impact
F4011213 Telecommuting and Teleworking
F4011299 Other ICT Policy and Social Impact n.e.c.

F4010300

ICT Applications

F4011301 E-Architecture
F4011302 E-Commerce
F4011303 E-Culture
F4011304 E-Dictionary
F4011305 Education
F4011306 Edutainment
F4011307 E-Government
F4011308 E-Law
F4011309 e-Learning
F4011310 E-Library
F4011311 E-Museum
F4011312 E-Tourism
F4011313 Finance and Insurance
F4011314 Food Traceability
F4011315 Games
F4011316 Games Engines
F4011317 Healthcare
F4011318 Manufacturing
F4011319 M-Commerce
F4011320 M-Government
F4011321 Serious Games
F4011322 Telehealth
F4011323 Teleworking
F4011324 Virtual Reality
F4011325 Wearable Computing
F4011399 Other ICT Applications n.e.c.

F4011400

Software Engineering

F4011401 Component Based Software Development
F4011402 Project Management
F4011403 Requirements Engineering
F4011404 Software Design
F4011405 Software Management
F4011406 Software Metrics
F4011407 Software Process Models
F4011408 Software Quality
F4011409 Software Reliability and Testing
F4011410 Software Tools
F4011499 Other Software Engineering n.e.c.

F4011500

Web Technology

F4011501 Collaborative Computing
F4011502 Semantic Web
F4011503 Web Services
F4011504 Web Wrapping

	F4011599	Other Web Technology n.e.c.
F4011600		Multimedia
	F4011601	Computer Animation and Digital Arts (<i>Including Edutainment, Information Processing Services, Integrated and Expert System for Designing, Multimedia Content, Virtual Reality and Virtual Manufacturing</i>)
	F4011602	Computer Graphics and Animations
	F4011603	Digital Image Processing System
	F4011604	Education and Training Services
	F4011605	Edutainment (<i>Including Merging Education and Entertainment Technologies</i>)
	F4011606	Interface Design
	F4011607	Virtual Reality
F4011700		Educational Technology
	F4011701	Computer Assisted Instruction (CAI)
	F4011702	Computer Based Training
	F4011703	e-Learning
	F4011704	Web Based Courses
	F4011799	Other Educational Technology n.e.c.
F4011800		Distributed Computing
	F4011801	Cloud Computing
	F4011802	Cluster Computing
	F4011803	Grid Computing
	F4011804	Mobile Computing
	F4011805	Ubiquitous Computing
	F4011899	Other Distributed Computing n.e.c.
F4011900		Advancement of ICT Knowledge
F4019900		Other Information, Computer and Communication Technology (ICT) n.e.c.

CATEGORY	GROUP	AREA	SUBJECT
F5010000		MEDICAL AND HEALTH SCIENCES	
	F5010100	Immunology	
		F5010101	Allergy
		F5010102	Cellular Immunology
		F5010103	Humoral Immunology
		F5010104	Immunochemistry
		F5010105	Immunogenetics
		F5010106	Immunomodulation
		F5010107	Nutritional Immunology
		F5010108	Radioimmunology
		F5010109	Transplantation Immunology
		F5010110	Tumour Immunology
		F5010199	Other Immunology n.e.c.
	F5010200	Medical Biochemistry and Clinical Chemistry	
		F5010201	Antioxidants
		F5010202	Carbohydrates
		F5010203	Hormones
		F5010204	Lipids
		F5010205	Nucleic Acids
		F5010206	Proteins
		F5010207	Vitamins
		F5010299	Other Medical Biochemistry and
	F5010300	Medical Microbiology	
		F5010301	Bacteriology
		F5010302	Mycology
		F5010303	Parasitology
		F5010304	Virology
		F5010399	Other Medical Microbiology n.e.c.
	F5010400	Pharmacology	
		F5010401	Clinical Pharmacology
		F5010402	Medical Pharmacology
		F5010403	Molecular Pharmacology
		F5010404	Radiopharmacology
		F5010405	Therapeutics
		F5010406	Toxicology
		F5010499	Other Pharmacology n.e.c.
	F5010500	Physiology	
		F5010501	Cell Physiology
		F5010502	Comparative Physiology
		F5010503	Stress Physiology
		F5010504	Systems Physiology

F5010599 Other Physiology n.e.c.

F5010600

Neurosciences

F5010601 Auditory Neuroscience
F5010602 Autonomic Nervous System
F5010603 Cell Receptors
F5010604 Cellular Nervous System
F5010605 Central Nervous System
F5010606 Cerebral Palsy
F5010607 Cerebral Vascular Disorder
F5010608 Degenerative Diseases
F5010609 Epilepsy
F5010610 Migraine
F5010611 Molecular Characterization
F5010612 Neuropsychiatry
F5010613 Peripheral Nervous System
F5010614 Psychogeriatrics
F5010615 Sensory Systems
F5010616 Sleep Disorders
F5010617 Trauma Inflammation (*Including Mechanism of Tissue Damage; Head Injury*)
F5010699 Other Neurosciences n.e.c.

F5010700

Clinical Medicine

F5010701 Allergies
F5010702 Anaesthesiology
F5010703 Carcinogenesis
F5010704 Cardiology
F5010705 Clinical Psychology
F5010706 Dermatology
F5010707 Emergency Medicine
F5010708 Endocrinology
F5010709 Forensic
F5010710 Gastroenterology
F5010711 Geriatrics
F5010712 Gynaecology
F5010713 Hematology
F5010714 Infectious/ Communicable Diseases
F5010715 Intensive Care
F5010716 Medical Genetics
F5010717 Neonatology
F5010719 Nephrology
F5010720 Neurology
F5010721 Neuromuscular Diseases
F5010722 Nuclear Medicine
F5010723 Obstetrics
F5010724 Occupational Therapy
F5010725 Oncology
F5010726 Ophthalmology

F5010727	Orthopaedics
F5010728	Otolaryngology
F5010729	Paediatrics
F5010730	Pathology
F5010731	Physical Therapy
F5010732	Psychiatry
F5010733	Radiation Oncology
F5010734	Radiology
F5010735	Radiotherapy
F5010736	Rehabilitation
F5010737	Reproduction
F5010738	Respiratory Diseases
F5010739	Rheumatology
F5010740	Surgery
F5010741	Transplants
F5010742	Traumatology
F5010743	Urology
F5010799	Venereology

F5010800

Public Health

F5010801	Epidemiology
F5010802	Mental Health
F5010803	Preventive Medicine
F5010804	Primary Health Care
F5010805	Radiation Health and Safety
F5010806	Urban and Rural Health
F5010807	Vaccination
F5010808	Vector Borne Diseases
F5010899	Other Public Health n.e.c.

F5010900

Environmental and Occupational Health and Safety Research

F5010901	Air Quality
F5010902	Drinking Water Quality
F5010903	Environmental Protection and Health Impact
F5010904	Ergonomics
F5010905	Health and Safety (Occupational)
F5010906	Health Information Systems
F5010907	Injuries
F5010908	Noise Pollution
F5010909	Social Epidemiology
F5010910	Solid Waste Management
F5010911	Waste Water Management
F5010912	Waterborne Diseases
F5010999	Other Environmental and Occupational health and Safety Research N.e.c.

F5011000

Nutrition (Clinical and Public Health Research)

F5011001	Body Image
F5011002	Clinical Nutrition

F5011003	Eating Disorders
F5011004	Food Services
F5011005	Functional Foods
F5011006	Nutrient and Micronutrient Deficiencies
F5011007	Nutrient Requirement
F5011008	Nutrition Promotion and Education
F5011009	Nutrition Related Chronic Diseases
F5011010	Nutrition Related to Performance and Mental Health
F5011011	Nutrition Transition
F5011012	Nutritional Databases
F5011013	Obesity
F5011099	Other Nutrition (Clinical and Public Health Research) n.e.c.

F5011100

Health Care System

F5011101	Burden of Disease
F5011102	Child Care
F5011103	Continuous Quality Improvement
F5011104	Delivery Systems
F5011105	Equity
F5011106	Health Care Administration
F5011107	Health Care Financing
F5011108	Health Economics
F5011109	Health Education and Promotion
F5011110	Health Information Management
F5011111	Health Legislation
F5011112	Health Outcomes
F5011113	Health Policy Analysis
F5011114	Health Rehabilitation Service
F5011115	Health Systems Management
F5011116	Home Care Services
F5011117	Human Resource Development <i>(Including Technologies in Attitude Determination Control Instruments)</i>
F5011118	Maternal Care
F5011119	Medical Biotechnology
F5011120	Medical Ethics
F5011121	Mortality and Morbidity Studies
F5011122	Programme Evaluation
F5011123	Quality Assurance of Health Instruments
F5011124	Quality of Life
F5011125	Screening
F5011126	Social Care
F5011127	Social Support System
F5011128	Standards and Calibration
F5011129	Telemedicine
F5011199	Other Health Care System n.e.c.

F5011200

Pharmaceutical Industry

F5011201	Botanical Pesticides <i>(Including BT: Agricultural Chemical)</i>
F5011202	Drug Pricing

F5011203	Halal Labelling
F5011204	Human Pharmaceutical Products <i>(Including Blood Products, Diagnostic, Therapeutic Agents, Vaccine and Halal Products)</i>
F5011205	Labelling and Safety
F5011206	Law and Ethics
F5011207	Licensing
F5011208	Natural Products
F5011209	Nutraceuticals <i>(Including Manufacturing of Nutraceuticals Products)</i>
F5011210	Personal Care Products and Cosmetics <i>(Including Cosmoceuticals, Nutritional Supplements and; Manufacturing of Cosmetics, Cosmeceuticals, Toiletries, Soap, Household Cleaners and Detergents Products)</i>
F5011211	Photochemical
F5011212	Phytochemicals
F5011213	Purification Technology
F5011214	Regulation
F5011215	Screening Technology
F5011216	Synthesis Technology
F5011217	Tissue Banking
F5011218	Veterinary Pharmaceutical Products <i>(Including Antibiotics, Chemical Treatments, Diagnostics, Therapeutic Agents, Vaccine and Halal Products)</i>
F5011299	Other Pharmaceutical Industry n.e.c.

F5011300

Complementary/Alternative Medicine

F5011301	Clinical Research
F5011302	Education
F5011303	Ethnomedicine
F5011304	Ethnopsychiatry
F5011305	Information Management
F5011306	Natural Therapy
F5011307	Practitioners
F5011308	Quality and Safety
F5011309	Sociological Research
F5011310	Toxicology
F5011311	Traditional Medicine and Natural Product <i>(Including Development of Traditional and Herbal Medicine)</i>
F5011399	Other Complementary/Alternative Medicine n.e.c.

F5011400

Pharmacy

F5011401	Adjuvant Drug Admixture
F5011402	Adverse Drug Reaction
F5011403	Bioequivalence
F5011404	Cardiovascular Pharmacy
F5011405	Community Pharmacy
F5011406	Cytotoxicology
F5011407	Drug Discovery
F5011408	Drug Interaction

F5011409 Good Manufacturing Practice
 F5011410 Medicinal Chemistry
 F5011411 Nanopharmacy
 F5011412 Neurotoxicology
 F5011413 Optimum Drug Design
 F5011414 Pharmaceutical Biotechnology
 F5011415 Pharmaceutical Technology
 F5011416 Pharmacodynamics
 F5011417 Pharmacoeconomics
 F5011418 Pharmacoethics
 F5011419 Pharmacogenomics
 F5011420 Pharmacognosy
 F5011421 Pharmacoinformatics
 F5011422 Pharmacokinetics
 F5011423 Pharmacovigilance
 F5011424 Pharmacy Jurisprudence
 F5011425 Prescription/Dispensing Errors
 F5011426 Radioimmunology
 F5011427 Radioisotopes
 F5011428 Radiopharmaceutical
 F5011429 Social and Administrative Pharmacy
 F5011430 Therapeutic Drug Monitoring
 F5011431 Total Parenteral Nutrition
 F5011499 Other Pharmacy n.e.c.

F5011500

Speech and Language Pathology

F5011501 Acquired Language Disorders
 F5011502 Articulation & Phonological Disorders
 F5011503 Aural Rehabilitation
 F5011504 Child Language Disorders
 F5011505 Cleft Lip and Palate
 F5011506 Dyslexia
 F5011507 Epidemiology of Speech and Language Pathology
 F5011508 Linguistic Analysis of Language Pathology
 F5011509 Motor Speech Disorders
 F5011510 Multicultural and Cross-Cultural Aspects of Language Pathology
 F5011511 Normal Speech and Language
 F5011512 Developments
 F5011513 Speech Acoustics
 F5011514 Speech and Language Assessments/Tests/
 F5011515 Therapy Materials
 F5011516 Swallowing Disorders
 F5011517 Voice Disorders
 F5011599 Other Speech and Language Pathology n.e.c.

F5011600

Optometry

F5011601 Binocular Vision
 F5011602 Clinical Contact Lens Care

F5011603 Clinical Optometry
F5011604 Low Vision
F5011605 Ophthalmic Materials
F5011606 Opto-Optical Sciences
F5011607 Refractive Disorders
F5011608 Vision Sciences
F5011609 Vision Therapy
F5011610 Visual Development
F5011699 Other Optometry n.e.c.

F5011700

Audiology

F5011701 Auditory Neuroscience
F5011702 Auditory Processing
F5011703 Auditory Processing Disorders
F5011704 Cochlear Hair Cells Function
F5011705 Cochlear Implant & Hearing Amplification
F5011706 Development of Diagnostic Materials
F5011707 Diagnostic Audiology
F5011708 Early Hearing Detection & Intervention (EHDI)
F5011709 Epidemiological Studies
F5011710 Geriatric Audiology
F5011711 Hearing Conservation
F5011712 Hearing Psychology
F5011713 Industrial Audiology
F5011714 Physiological Acoustics (Hearing Physiology)
F5011715 Presbycusis
F5011716 Psychoacoustics
F5011717 Rehabilitative Audiology
F5011799 Other Audiology n.e.c.

F5011800

Medical Diagnostic Imaging

F5011801 Bone Densitometry
F5011802 Computed Tomography (CT Scan)
F5011803 Image Construction and Management
F5011804 Magnetic Resonance Imaging (MRI)
F5011805 Mammography
F5011806 Medical Instrumentation
F5011807 Medical Physics
F5011808 Nuclear Medicine
F5011809 Radiology
F5011810 Ultrasound
F5011899 Other Medical Diagnostic Imaging n.e.c.

F5011900

Radiotherapy

F5011901 Boron Neutron Capture Therapy (BNCT)
F5011902 Brachy Therapy
F5011903 Medical Physics
F5011904 Nuclear Medicine

F5011905	Radiation Biology
F5011906	Radiation Biophysics
F5011907	Radiation Physics
F5011908	Radiochemistry, Radiatonchemistry and Radioprotectant
F5011909	Tissue Biophysics
F5011910	Tissue Protection
F5011911	Tissue/ Tumour Sensitisation
F5011999	Other Radiotherapy n.e.c.

F5012000

Anatomy

F5012001	Comparative Anatomy
F5012002	Cytology
F5012003	Histology
F5012004	Technique and Instrumentation
F5012099	Other Anatomy n.e.c.

F5012100

Dentistry

F5012101	Community Dentistry
F5012102	Dental Education
F5012103	Dental Informatics
F5012104	Dental Materials
F5012105	Dental Practice Management
F5012106	Dental Technology
F5012107	Dentistry Support
F5012108	Endodontics
F5012109	Forensic Dentistry
F5012110	Geriatric Dentistry
F5012111	Implantology
F5012112	Operative Dentistry
F5012113	Oral and Maxillofacial Surgery
F5012114	Oral Biology
F5012115	Oral Health Care Practice
F5012116	Oral Imaging
F5012117	Oral Pathology
F5012118	Orthodontics
F5012119	Paediatric Dentistry
F5012120	Periodontology
F5012121	Preventive Dentistry
F5012122	Prosthetic Dentistry
F5012123	Prosthodontics
F5012124	Sports Dentistry
F5012199	Other Dentistry n.e.c.

F5012200

Nursing

F5012201	Cardiology
F5012202	Complementary/Alternative Medicine in Nursing
F5012203	Critical Care Unit (CCU) and Intensive Care Unit (ICU)
F5012204	Ear, Nose and Throat (ENT)
F5012205	Environmental Health

F5012206	Gerontology
F5012207	Heamatology
F5012208	HIV/ AIDS
F5012209	Hospice Care
F5012210	Immunology
F5012211	Industrial Nursing
F5012212	Medical
F5012213	Mental Health
F5012214	Neonatal
F5012215	Nephrology
F5012216	Neurology/ Neurosurgery
F5012217	Nonsurgical Cosmetic Surgery
F5012218	Nursing Care
F5012219	Nutrition
F5012220	O&G / Midwifery
F5012221	Oftalmology
F5012222	Oncology
F5012223	Orthopedic
F5012224	Palliative Care
F5012225	Pediatric
F5012226	Perioperative
F5012227	Plastic Surgery
F5012228	Public/Community Health
F5012229	Rehabilitation
F5012230	Surgical
F5012231	Transreligious/Transcultural Nursing
F5012232	Trauma
F5012233	Urology
F5012299	Other Nursing n.e.c.

F5012300

Nursing Education

F5012301	Continuous Nursing Education
F5012302	Curriculum Development
F5012303	Curriculum Evaluation
F5012304	Health Education
F5012305	Programme Assesment
F5012306	Students Evaluation
F5012307	Tests Psychometric
F5012399	Other Nursing Education n.e.c.

F5012400

Nursing Management

F5012401	Clinical Pathway
F5012402	Health Administration
F5012403	Health Care Financing/Economic
F5012404	Health Outcome
F5012405	Health Policy
F5012406	Health System Management
F5012407	Health Technology
F5012408	Law and Ethics

F5012409 Leadership
F5012410 Nursing Advocacy
F5012411 Nursing Audit
F5012412 Personal Professional Development
F5012413 Quality Assurance
F5012414 Tele-Medicine
F5012499 Other Nursing Management n.e.c.

F5012500

Medical Device, Equipment and System

F5012501 Artificial Intelligent Diagnostic System
F5012502 Artificial Organ
F5012503 Biomechanical Device
F5012504 Biomechanics
F5012505 Health Technology Assessments
F5012506 Implant Device
F5012507 Innovative Technology
F5012508 Medical Imaging Instrument
F5012509 Monitoring Equipment
F5012510 Radiological System
F5012511 Rehabilitation Equipment
F5012512 Robotic Systems
F5012513 Screening Device and Equipment
F5012514 Support System for Disabled
F5012515 Surgical Equipment
F5012516 Tissue Engineering
F5012517 Treatment Equipment
F5012518 Virtual Reality Software
F5012599 Other Medical Device, Equipment and System n.e.c

F5012600

Biomedical Sciences

F5012601 Apoptosis
F5012602 Behavioural Neuroscience
F5012603 Biomarkers
F5012604 Carcinogenesis
F5012605 Cell Therapy
F5012606 Diagnostic Imaging
F5012607 Genomics
F5012608 Metabolomics
F5012609 Molecular Medicine
F5012610 Nanomedicine
F5012611 Neurodegenerative Diseases
F5012612 Proteomics
F5012613 Radiotherapy
F5012614 Regenerative Medicine
F5012615 Stem Cells
F5012699 Other Biomedical Sciences n.e.c.

F5012700

Sports Science

F5012701 Exercise/ Physical Fitness

F5012702 Human Biophysics
F5012703 Sports Physiology
F5012799 Other Sport Sciences n.e.c.

F5019900 Other Medical and Health Sciences n.e.c.

CATEGORY	GROUP	AREA	SUBJECT
F6010000		AGRICULTURAL SCIENCE AND TECHNOLOGY	
	F6010100	Soil and Water Management	
		F6010101	Problematic Soil
		F6010102	Soil Biology
		F6010103	Soil Chemistry
		F6010104	Soil Erosion, Land Management and Conservation
		F6010105	Soil Fertility
		F6010106	Soil Microbiology
		F6010107	Soil Physics
		F6010199	Other Soil and Water Management n.e.c.
	F5010000	Crop Production and Agriculture Information System and Technology	
		F6010201	Acclimatised Plants (<i>Including Spices, Industrial, Herbal, Horticulture and Agronomic Crops</i>)
		F6010202	Agronomy
		F6010203	Commodity
		F6010204	Crop Ecophysiology
		F6010205	Crop Improvement and Breeding
		F6010206	Crop Manipulation/Genetic Engineering
		F6010207	Crop Modelling
		F6010208	Crop Nutrition
		F6010209	Crop Physiology
		F6010210	Farm Mechanisation
		F6010211	Food Traceability
		F6010212	Geographic Information System
		F6010213	Geospatial Information Technology
		F6010214	K-Agriculture
		F6010215	Other Crop and Pasture Production
		F6010216	Pasture Management
		F6010217	Pests and Diseases
		F6010218	Pre-Harvest and Post-Harvest
		F6010219	Production System (<i>Including micropropagation (tissue culture and bioreactor)</i>)
		F6010220	Remote Sensing
		F6010221	Root Studies
		F6010222	Seed Production (<i>Including Certification systems and Standards Compliance</i>)
		F6010223	Weed Sciences
		F6010299	Other Crop Production and Agriculture Production System and Technology n.e.c
	F6010300	Horticulture	
		F6010301	Floriculture
		F6010302	Fruit Crops
		F6010303	Hydroponic and Aquaponic
		F6010304	Landscape

F6010305 Olericulture (vegetables)
F6010306 Ornamental Plants
F6010399 Other Horticulture n.e.c.

F6010400

Animal and Avian Production

F6010401 Animal Feed
F6010402 Animal Growth and Development
F6010403 Animal Health
F6010404 Animal Husbandry
F6010405 Animal Nutrition (*Including Metabolic Disorders*)
F6010406 Animal Pests and Pathogens
F6010407 Animal Reproduction
F6010408 Breeds and Breeding
F6010409 By-Products (Edible and Non-Edible) (*Including Bee and Bee Products, Beef, Eggs, Fishgelatine, Hides, Milk (Minimally Processed), Mutton, Pork, Poultry, Raw Wool, Skins, Birds Nest, Food Supplement, Food Ingredient, Collagen, Hormone, Enzyme, Animal Manure, Holuthoria Spp (Sea Cucumber/Gamat), Ostrich Meat, Rabbit Meat, Venison, Frog Legs and Lamb*)

F6010410 Dairy Science and Technology
F6010411 Livestock Product (*Including Beef, Cattle, Breeders, Broilers, Buffalo, Dairy Cattle, Deer, Goats-Meat, Goats-Milk, Horses, Layers, Ostrich, Pigs, Rabbit, Sheep-Meat, Sheep- Wool, Frog, Animal Production in Oil Palm Plantation, Seladang, Banteng, Barking- Deer, Larger Mouse-Deer (Napuh), Lesser Mouse-Deer (Kancil), Crocodile, Sea Turtle, River Terrapin, Porcupine, Serow, Jungle Fowl, Pheasant, Swiflet, Snail, Sago Worm, Chicken, Duck, Earthworm and Cengkerik/Sicada*)

F6010412 Meat Science and Technology
F6010413 Pilot Plant Technology
F6010414 Post Harvest Handling
F6010415 Poultry Egg Technology
F6010416 Product and Ingredient Technology
F6010417 Value-Added Product
F6010499 Other Animal and Avian Production n.e.c.

F6010500

Veterinary Sciences

F6010501 Anaesthesiology
F6010502 Bacteriology and Virology
F6010503 Biologics
F6010504 Diseases Management (*Including Avian Diseases, Equine Diseases, Immunologic Diseases, Non-Ruminant Diseases, Nutritional Diseases, Parasitology, Pathology, Pet and Domestic Animal Diseases and Wildlife and Zoo Animal Diseases*)

F6010505 Epidemiology
F6010506 Equestrian Sciences
F6010507 Immunology (*Including Immunochemistry*)
F6010508 Medicine (*Including Radiology, Therapeutics and Surgery*)
F6010509 Obstetrics and Theriogenology
F6010510 Therapeutics

F6010511 Virology
F6010512 Wildlife and Zoo Animal Diseases
F6010599 Other Veterinary Sciences n.e.c.

F6010600

Plant Pest and Disease Management

F6010601 Biological Control (*Including GAP, SALM, GBP and other Standards*)
F6010602 Causal Diseases (*Including Mammatology, Nematology, Pathology and Virology*)
F6010603 Entomology
F6010604 Integrated Pest Management
F6010605 Pesticide Application Techniques
F6010606 Quarantine Pest and Treatment
F6010699 Other Plant Pest and Disease Management n.e.c.

F6010700

Fisheries Sciences

F6010701 Brackish Fisheries
F6010702 Capture Fisheries
F6010703 Feed Formulation for Marine, Freshwater, Brackish and Ornamental
F6010704 Fish Stock Assessment (*Including Mapping, Monitoring and Modelling*)
F6010705 Fisheries Ecology and Conservation
F6010706 Fresh Water Fisheries
F6010707 Marine Fisheries
F6010708 Ornamental/ Aquarium Fish and Plants
F6010709 Recreational Fisheries
F6010799 Other Fisheries Sciences n.e.c.

F6010800

Food Sciences and Nutrition

F6010801 Additives and Contaminants
F6010802 Enzymes
F6010803 Food Analysis
F6010804 Food Chemistry
F6010805 Food Emulsion Products
F6010806 Food Microbiology
F6010807 Food Preservation
F6010808 Food Processing
F6010809 Food Quality
F6010810 Food Safety
F6010811 Food Security
F6010812 Food Sensory Evaluation
F6010813 Food Toxicology
F6010814 Functional Food
F6010815 Halal Products
F6010816 Improvement of Finish Products
F6010817 New Food Ingredients
F6010818 Nutrient Bioability
F6010819 Nutrient Composition of Food
F6010820 Pilot Testing and Technology
F6010821 Product Development

F6010822 Production Modelling
F6010899 Other Food Science and Nutrition n.e.c.

F6010900

Aquaculture

F6010901 Aquaculture Engineering *(Including Aquaculture Mechanisation)*
F6010902 Aquaculture Products *(Including Fish, Prawns, Leeches, Seaweed and Gamat)*
F6010903 Aquatic Environment
F6010904 Aquatic Plants and Animals
F6010905 Brood Stock Management *(Including Fry Production)*
F6010906 Culture System
F6010907 Diseases of Aquatic Organisms
F6010908 Drug and Chemical
F6010909 Effluent Treatment and Waste Management
F6010910 Farming System and Technology of Aquatic Organisms
F6010911 Fish Nutrition
F6010912 Fish Reproduction
F6010913 Genetic Selection
F6010914 Husbandry of Aquatic Organisms
F6010915 Indigenous Live Feed Production
F6010916 Post Harvest Handling
F6010999 Other Aquaculture n.e.c.

F6011000

Precision Farming

F6011001 Crop Management
F6011002 Crop Modelling
F6011003 Economics
F6011004 Farm Infrastructure
F6011005 Food Traceability
F6011006 Geographic Information System
F6011007 Geospatial Information Technology
F6011008 Harvesting
F6011009 K-Agriculture
F6011010 Pest and Disease Management
F6011011 Post Harvest
F6011012 Precision Supporting System
F6011013 Soil Management
F6011014 Water Management
F6011015 Weed Management
F6011099 Other Precision Farming n.e.c.

F6011100

Primary Products from Plants

F6011101 Biomass Products
F6011102 By-Product Utilisation
F6011103 Cocoa Products
F6011104 Herbal Products
F6011105 Natural Oil and Essential Oil
F6011106 Natural Rubber Latex
F6011107 Palm Oil *(Including Palm Kernel Oil)*
F6011108 Post Harvest
F6011109 Tobacco Leaf and Kenaf

F6011110 Unprocessed Cereals
F6011199 Other Primary Products From Plants n.e.c.

F6011200

Nutraceuticals and Cosmetics

F6011201 Bioactive and Phenolic Compound
F6011202 Cosmetic Products (*Including nanocosmetics*)
F6011203 Essential Oil
F6011204 Flavour and Fragrance
F6011205 Food Supplements
F6011206 Natural Ingredients
F6011299 Other Nutraceuticals and Cosmetics n.e.c.

F6011300

Advancement of Knowledge on Agriculture

F6011301 Agricultural Extension
F6011302 Genetics, Genomics and Proteomics
F6011399 Other Advancement of Knowledge on Agriculture n.e.c.

F6019900

Other Agricultural Sciences and Technology n.e.c.

F6020000

FORESTRY SCIENCES AND TECHNOLOGY

F6020100

Forest Engineering and Operation

F6020101 Harvesting System Design (*Including Minimal Impact Logging*)
F6020102 Road Design
F6020103 Surveying Techniques
F6020199 Other Forest Engineering and Operation n.e.c.

F6020200

Forestry Information System and Technology

F6020201 Airborne Hyperspectral Imaging
F6020202 Geographical Information System (GIS)
F6020203 Geospatial Information Technology
F6020204 Precision Forestry
F6020299 Other Forestry Information System and Technology n.e.c.

F6020300

Biodiversity and Conservation

F6020301 Beach, Riverine and Peat Swamp Management
F6020302 Conservation Areas
F6020303 Genetic Diversity
F6020304 Hill and Mountain Forests (*Including Heath Forests*)
F6020305 Inventory and Documentation
F6020306 Lowland Forests
F6020307 Mangrove Forest
F6020308 Peat Swamp Forest
F6020309 Wetlands
F6020399 Other Biodiversity and Conservation n.e.c.

F6020400

Pest and Disease Management

F6020401 Biological Control
F6020402 Causal Disease (*Including Entomology, Mammology, Nematology, Pathology and Virilology*)

F6020403 Entomology
F6020404 Integrated Pest Management
F6020499 Other Pest and Disease Management n.e.c.

F6020500

Agroforestry

F6020501 Fertiliser Regime
F6020502 Integrated System
F6020503 Soil Compaction
F6020504 Sustainable Production
F6020599 Other Agroforestry n.e.c.

F6020600

Forest Management

F6020601 Coastal Zone Management
F6020602 Fire Planning and Control
F6020603 Forest Ecology
F6020604 Forest Inventory and Measurement *(Including Forest Sampling)*
F6020605 Forest Modelling
F6020606 Forest Plantation
F6020607 Forest Recreation
F6020608 In-Situ and Ex-Situ Conservation
F6020609 Reforestation
F6020610 Silviculture
F6020611 Soil and Land Improvement
F6020612 Sustainable Forest Management
F6020613 Tourism
F6020614 Urban Forestry
F6020615 Wildlife Management
F6020699 Other Forest Management n.e.c.

F6020700

Tree Improvement

F6020701 Breeding and Cryopreservation
F6020702 Micropropagation Techniques
F6020703 Seed Technology
F6020799 Other Tree Improvement n.e.c.

F6020800

Wood and Non Wood Forest Products

F6020801 Bamboo and Rattans
F6020802 Medicinal Plants
F6020803 Oil and Resin
F6020804 Wood Processing
F6020805 Wood Sciences
F6020806 Wood Utilisation
F6020899 Other Wood and Non Wood Forest Products n.e.c.

F6020900

Forest Production and Forest Products

F6020901 Harvesting *(Including Machineries, Reduced Impact Logging and Rehabilitation of Logged Forest Ecosystems)*
F6020902 Information and Communication Services in
F6020903 Forestry *(Including Decision Support System)*
F6020904 Natural Forests *(Including By Product Utilisation, Improved Planting Stock, Medicinal Plants, Phytochemicals, Timber, Ecotourism, Wildlife,*

- Conservation and Mushrooms)*
- F6020905 Plantation Forests *(Including Composites, Furniture, Improved Planting Stock, Pulp and Paper and Landscaping)*
- F6020999 Transportation *(Including Land, Water and Air, Road Design and Survey)*

F6021000

Advancement of Forestry Sciences Knowledge

- F6021001 Airborne Hyperspectral Imaging
- F6021002 Biodiversity Conservation
- F6021003 Biodiversity Conservation/Utilisation
- F6021004 Carbon Sequestration, Legal Aspects of Forestry
- F6021005 Engineered Timber and Composite
- F6021006 Forensic Forestry
- F6021007 Laser Technology
- F6021099 Other Advancement of Forestry Sciences Knowledge n.e.c.

F6021100

Biomass Utilisation

- F6021101 Biocomposites and Hybrid Composites
- F6021102 Biomass Fuel and Energy
- F6021103 Biopolymers and Biodegradables
- F6021104 Carbon and Activated Carbon
- F6021105 Cellulosic and Fibre Technology *(Including Nano Cellulosic Materials)*
- F6021106 Coatings Products Technology
- F6021107 Oil and Adhesives
- F6021199 Other Biomass Utilisation n.e.c

F6029900

Other Forestry Sciences and Technology n.e.c.

CATEGORY	GROUP	AREA	SUBJECT
F7010000		SOCIAL SCIENCE	
	F7010100	Political Sciences and Public Policy	
		F7010101	Comparative Politics
		F7010102	Conflict Resolution
		F7010103	Development Policies
		F7010104	Diplomacy
		F7010105	Electoral Studies
		F7010106	Empowerment
		F7010107	Federalism
		F7010108	Foreign Policy
		F7010109	Governance
		F7010110	International Politics
		F7010111	International Relations
		F7010112	Islamic Political System
		F7010113	Law and Politics
		F7010114	Local Government Studies
		F7010115	Malaysian Politics
		F7010116	Policy Studies
		F7010117	Political Economy
		F7010118	Political Theory and Political Philosophy
		F7010119	Public Policy and Administration
		F7010120	Strategic Studies
		F7010199	Other Political Sciences and Public Policy n.e.c.
	F7010200	Habitat and Human Settlement	
		F7010201	Community Development
		F7010202	Disaster Planning
		F7010203	Land Use Planning and Management
		F7010204	Regional Planning
		F7010205	Resettlement Studies
		F7010206	Rural Studies
		F7010207	Social Housing
		F7010208	Urban Studies
		F7010299	Other Habitat and Human Settlement n.e.c.
	F7010300	Sociology	
		F7010301	Class Studies
		F7010302	Consumerism
		F7010303	Death and Dying
		F7010304	Developmental Sociology
		F7010305	Environmental Sociology
		F7010306	Ethnic Studies
		F7010307	Family Studies
		F7010308	Fatwa and Society
		F7010309	Future and Foresight Studies

F7010310	Gender Studies
F7010311	Islamisation of Sociology
F7010312	Late-Life Family
F7010313	Medical Sociology
F7010314	Multiethnicity and Pluralism
F7010315	Poverty, Social Welfare, and Social Policy
F7010316	Retirement Planning
F7010317	Rural Sociology
F7010318	Social Capital
F7010319	Social Gerontology
F7010320	Social Impact Assessment
F7010321	Social Informatics
F7010322	Social Justice
F7010323	Social Stratification
F7010324	Social Theory
F7010325	Sociology of Child and Youth
F7010326	Sociology of Consumption
F7010327	Sociology of Development
F7010328	Sociology of Disaster
F7010329	Sociology of Education
F7010330	Sociology of Family
F7010331	Sociology of Health
F7010332	Sociology of Law
F7010333	Sociology of Religion
F7010334	Sociology of Technology
F7010335	Sociology of Work
F7010399	Other Sociology n.e.c.

F7010400

Sociology of Development

F7010401	Collective Action and Social Change
F7010402	Industrial Sociology
F7010403	Marginal and Minority Relations
F7010404	Migration
F7010405	Modernity Studies
F7010406	Social Trend and Indicator
F7010407	Urban Sociology
F7010499	Other Sociology of Development n.e.c.

F7010500

Sociology of Politics

F7010501	Nation Building
F7010502	Sociology on Local-Global Relations
F7010599	Other Sociology of Politics n.e.c.

F7010600

Community Development

F7010601	Community Leadership
F7010602	Community Mobilisation
F7010603	Community Research
F7010604	Community-based Organisation
F7010605	Social Enterprise

F7010606 Social Movement
F7010699 Other Community Development n.e.c.

F7010700

Social Issues and Problems

F7010701 Abuse, Neglect and Maltreatment
F7010702 At-Risk Behaviour
F7010703 Cohabitation
F7010704 Criminology
F7010705 Deviance and Social Control
F7010706 Suicide
F7010799 Other Social Issues and Problems n.e.c.

F7010800

Archaeology and History

F7010801 Archaeology and Classical Study
F7010802 Marine Archaeology
F7010803 Material Culture
F7010804 Museum and Archives Management
F7010805 Palaeography
F7010806 Prehistory
F7010807 Preservation and Conservation
F7010899 Other Archaeology and History n.e.c.

F7010900

Geography

F7010901 Behavioural Geography
F7010902 Climatology
F7010903 Economic Geography
F7010904 Environmental Geography
F7010905 Environmental Management
F7010906 Geographical Information System (GIS)
F7010907 Human Geography
F7010908 Population Geography
F7010909 Regional Geography
F7010910 Remote Sensing
F7010911 Social and Cultural Geography
F7010912 Tourism Studies
F7010913 Transport Geography
F7010914 Urban Morphology
F7010999 Other Geography n.e.c.

F7011000

Population and Demographic Studies

F7011001 Ageing
F7011002 Family and Household Studies
F7011003 Fertility Trends
F7011004 Migration
F7011005 Morbidity Trends
F7011006 Mortality Trends
F7011007 Nuptiality
F7011008 Population Policy
F7011099 Other Population and Demographic Studies n.e.c.

F7011100**Law**

- F7011101 Adat Law
- F7011102 Administrative Law
- F7011103 Agricultural Law
- F7011104 Air and Space Law
- F7011105 Alternative Dispute Resolution
- F7011106 Biosafety Law *(Including GMOs, Bioethics, Sustainable Development)*
- F7011107 Child Law
- F7011108 Civil Law
- F7011109 Commercial Law
- F7011110 Comparative Law
- F7011111 Competition Law
- F7011112 Constitutional Law
- F7011113 Construction Law
- F7011114 Contract Law
- F7011115 Corporations and Associations Law
- F7011116 Criminal Law
- F7011117 Customary Law
- F7011118 Cyber/ICT Law
- F7011119 Disabled Law
- F7011120 Energy Law
- F7011121 Environmental Law *(Including Environmental Impact Assessment, Pollution Law, Heritage Law)*
- F7011122 Equity and Trust Law
- F7011123 Family Law
- F7011124 Food Law
- F7011125 Governance
- F7011126 Health Law
- F7011127 Human Rights
- F7011128 Indigenous Law
- F7011129 Industrial Law
- F7011130 Intellectual Property *(Including Copyrights, Patents, Trademarks, Industrial Design)*
- F7011131 International Law *(Including Public and Private International Law, Law of the Sea, International Trade Law)*
- F7011132 Jurisprudence
- F7011133 Justice System
- F7011134 Labour Law
- F7011135 Land Law
- F7011136 Law and Literature
- F7011137 Law and The Elderly
- F7011138 Law of Procedures
- F7011139 Law of Torts
- F7011140 Legal History
- F7011141 Legal Practice and Ethics
- F7011142 Legal Systems
- F7011143 Maritime Law *(Including Admiralty Law)*

F7011144	Media Law (<i>Including Entertainment Law</i>)
F7011145	Medical Law
F7011146	Nanotechnology Law
F7011147	Natural Resources Law (<i>Including Water Law</i>)
F7011148	Occupational Safety and Health Law
F7011149	Personal Data Protection Law
F7011150	Planning Law
F7011151	Precautionary Principle Biotechnology Law (<i>Including Stem Cell Law, Plant Variety Protection, Plants Patent</i>)
F7011152	Property Law and Conveyancing
F7011153	Sports Law
F7011154	Taxation Law
F7011155	Tourism Law
F7011156	Transport Law
F7011157	Waste Management Law
F7011199	Other Law n.e.c.

F7011200

Syariah Law

F7011201	Administration of Islamic Law
F7011202	Islamic Banking Law
F7011203	Islamic Family Law
F7011204	Islamic Jurisprudence
F7011205	Islamic Law of Evidence
F7011206	Islamic Law of Succession
F7011207	Islamic Law of Transaction
F7011299	Other Syariah Law n.e.c.

F7011300

Psychology

F7011301	Abnormal Psychology
F7011302	Biological Psychology
F7011303	Clinical Psychology
F7011304	Cognitive Psychology
F7011305	Comparative Psychology
F7011306	Counselling and Psychotherapy
F7011307	Developmental Psychology
F7011308	Forensic Psychology
F7011309	Health Psychology
F7011310	Islamic Psychology
F7011311	Neuropsychology
F7011312	Organisational and Industrial Psychology
F7011313	Performance and Perception
F7011314	Personality, Abilities and Assessment
F7011315	Psychogeriatric
F7011316	Psychological Assessment
F7011317	Psychological Methodology
F7011318	Psychometrics
F7011319	Psychopharmacology
F7011320	Sensory and Perception
F7011321	Social and Community Psychology

F7011399 Other Psychology n.e.c

F7011400

Social Psychology

F7011401 Attitude *(Including Attitude Change)*

F7011402 Group Behaviour *(Including Groups Dynamics, Leadership, Group Decision- Making, Conflicts, Cooperation, Group Influence)*

F7011403 Prejudice and Discrimination

F7011404 Prosocial Behaviour

F7011405 Psychology of Religion

F7011406 Self and Social Identity

F7011407 Social and Community Psychology

F7011408 Social Cognition

F7011409 Social Influence *(Including Psychology of Persuasion, Peer Pressure, Conformity, Obedience)*

F7011410 Violence and Aggression

F7011499 Other Social Psychology n.e.c.

F7011500

Education

F7011501 Classroom Studies *(Including Teacher-Student Language)*

F7011502 Continuing Professional Education

F7011503 Curriculum Development

F7011504 Distance Learning

F7011505 Education Counselling

F7011506 Education Policy, Management and

F7011507 Administration

F7011508 Education Structure

F7011509 Educational Psychology

F7011510 Educational Technology and Media

F7011511 e-Learning

F7011512 Ethics and Moral Education

F7011513 Extension Education

F7011514 History and Philosophy of Education

F7011515 Internationalisation of Education

F7011516 Language Literacy *(Including English (TESOL, ESL, TEFL) and other Languages)*

F7011517 Learner Autonomy *(Including Language Learning)*

F7011518 Life-Long Education

F7011519 Mainstreaming of Special Groups

F7011520 Pedagogy *(Including Teaching Methodologies for Content and Language Subjects)*

F7011521 Philosophy of Education

F7011522 Pre-School Education

F7011523 Private and Public Education

F7011524 Professional Teacher Development

F7011525 Sociology of Education *(Including Youth Work, Identity, Gender, Social Class, Changing Contexts and Forms of Education)*

F7011526 Special Education
 F7011527 Sports Education
 F7011528 Teacher Education
 F7011529 Tertiary Education
 F7011530 Testing Methodologies (*Including Testing Specifications, Testing of Content Subjects and Language Skills*)
 F7011599 Other Education n.e.c.

F7011600

Media and Communications

F7011601 Advertising (*Including Globalisation*)
 F7011602 Broadcasting
 F7011603 Censorship
 F7011604 Cinema
 F7011605 Comics Research (*Including Animation, Comic Books, Comic Strips, Caricature, Cartoons, Animae, Graphic Novels, Bandes dessinees*)

 F7011606 Edutainment
 F7011607 Film and Video
 F7011608 Film Directing
 F7011609 Health Communication
 F7011610 Humour (*Including Sit-Coms, Movies, Print Media, Radio Talk*)
 F7011611 Information Management
 F7011612 Information Studies (*Including Social Science Data Management, Analysis and Interpretation*)
 F7011613 Interpersonal Communications
 F7011614 Investor Relation
 F7011615 Journalism
 F7011616 Librarianship
 F7011617 Malaysian Mass Media and New Media
 F7011618 Media and Globalisation (*Including International Communication*)

 F7011619 Media and Language (*Including Discourse and Power*)
 F7011620 Media and Technology (*Including Social Networking*)
 F7011621 Media Policies
 F7011622 Media, Culture and Society (*Including Communication, Audience and Cultural Identity, Gender, Children and the Aged*)

 F7011623 Multimedia (*Including Computer-Assisted and Web-Based Approaches*)
 F7011624 Persuasion
 F7011625 Political Communications
 F7011626 Print Media (*Including Magazines, Newspapers, Newsletters*)
 F7011627 Public Relations and Communication
 F7011628 Science Communication
 F7011629 Telecommunication
 F7011630 Visual Communication
 F7011699 Other Media and Communication n.e.c.

F7011700

Anthropology

F7011701	Anthropology of Arts
F7011702	Anthropology of Gender
F7011703	Anthropology of Law
F7011704	Anthropology of Religion
F7011705	Applied Anthropology
F7011706	Cultural Theory
F7011707	Death and Dying
F7011708	Demographic Anthropology
F7011709	Ecological Anthropology
F7011710	Economic Anthropology
F7011711	Ethnography
F7011712	Ethnomusicology
F7011713	Family Studies
F7011714	Forensic Anthropology
F7011715	Indigenous People
F7011716	Linguistics Anthropology
F7011717	Medical Anthropology
F7011718	Minority Groups
F7011719	Nutritional Anthropology
F7011720	Orang Asli
F7011721	Physical and Biological Anthropology
F7011722	Political Anthropology
F7011723	Psychological Anthropology
F7011724	Social and Cultural Anthropology
F7011725	Social Anthropology
F7011726	Urban Anthropology
F7011799	Other Anthropology n.e.c.

F7011800

Professional Development of Law Practitioners

F7011801	Adjudication
F7011802	Legal Education
F7011803	Legal Practice
F7011804	Professional Ethics
F7011899	Other Professional Development of Law Practitioners n.e.c.

F7011900

Law Enforcement

F7011901	Correctional Theory and Services; Penology
F7011902	Criminology
F7011903	Detection and Prevention of Crime; Security Services
F7011904	Evidence and Procedure
F7011905	Forensic Science
F7011906	Police Administration, Procedures and Practice
F7011907	Jurisdiction and Conflict
F7011999	Other Law Enforcement n.e.c.

F7012000

Social Work

F7012001	Adoption
F7012002	Child Welfare (<i>Including Abuse, Protection, Rights, Street Children</i>)

F7012003	Clinical Social Work Practice (<i>Including Child Trauma</i>)
F7012004	Counselling, Welfare and Community Services (<i>Including Ageing, AIDS</i>)
F7012005	Developmental Disability and Disabilities
F7012006	Disaster
F7012007	Family Therapy
F7012008	Juvenile and Youth
F7012009	Lesbian, Gay, Bisexuals and Transgenders
F7012010	Marriage and Marital Counseling
F7012011	Poverty
F7012012	Program Development
F7012013	Single Parenthood
F7012014	Social Policy
F7012015	Social Program Evaluation
F7012016	Social Support (<i>Including Homelessness</i>)
F7012017	Social Work and Administration
F7012018	Social Work and Technology
F7012019	Substance Abuse
F7012020	Violence and Injury Prevention
F7012021	Volunteerism
F7012099	Other Social Work n.e.c.

F7012100

Cognitive Science

F7012101	Artificial Intelligence
F7012102	Computer Perception, Memory and Attention
F7012103	Knowledge Representation and Machine Learning
F7012104	Linguistic Processes
F7012105	Neurocognitive Patterns and Neural Networks (<i>Including Neurolinguistics</i>)
F7012106	Nutrition and Cognitive Function
F7012107	Philosophy of Cognition
F7012108	Planning and Problem Solving
F7012109	Psycholinguistics
F7012199	Other Cognitive Science n.e.c

F7012200

Farmer's Education and Agricultural Extension

F7012201	Agricultural Education
F7012202	Agricultural Education Engineering
F7012203	Agricultural Extension Research
F7012204	Biotechnology Extension Education
F7012205	Environmental Conservation Extension Education
F7012206	Forestry Extension Education
F7012207	Horticulture Extension Education
F7012208	Rural Developmental Extension Education
F7012209	Rural Women Extension Education
F7012210	Waste Management Extension Education
F7012211	Youth and Entrepreneurships Extension Education
F7012299	Other Farmer's Education and Agricultural Extension n.e.c.

F7012300**Advancement of Social Sciences Knowledge**

F7012301

Family Functionings (*Including Dysfunction Issues and Problems*)

F7012302

Productivity

F7012303

Sexuality

F7012304

Social Engineering

F7012305

Social Measurements and Modelling

F7012306

Social Stress and Monitoring System

F7012399

Other Advancement of Social Sciences Knowledge n.e.c.

F7019900**Other Social Sciences n.e.c.**

CATEGORY	GROUP	AREA	SUBJECT
F8010000		HUMANITIES	
	F8010100	Linguistics and Literature	
		F8010101	Applied Linguistics
		F8010102	Asian Languages and Literature (<i>Including ASEAN Languages</i>)
		F8010103	Clinical Linguistics
		F8010104	Comparative Literature
		F8010105	Computational Linguistics
		F8010106	Computer-Assisted Language Learning (CALL)
		F8010107	Corpus Linguistics
		F8010108	Dialectology
		F8010109	Discourse Studies (<i>Including Critical Linguistics, Text Linguistics, Mediated Discourse Analysis, CDA, Genre Studies, Genre Analysis, Conversation Analysis, Social Interactions Analysis (Macro and Micro), Semiotics</i>)
		F8010110	Educational Linguistics
		F8010111	Endangered Languages (<i>Including Moribund Languages</i>)
		F8010112	Ethnolinguistics
		F8010113	Ethnopragmatics
		F8010114	Ethnosemantics
		F8010115	Feminism (<i>Including Feminism and Power, Sexuality, Empowerment, Class, Disability, Human Rights, Global Feminist, Ethnicity, Power Relations, Neutral Language</i>)
		F8010116	Forensic Linguistics
		F8010117	Historical Linguistics
		F8010118	Intercultural Communication
		F8010119	Laboratory Phonetics and Speech Science (<i>Including Prosody</i>)
		F8010120	Language Acquisition (<i>Including First Language Acquisition, SLA, Bilingualism, Foreign Language Learning</i>)
		F8010121	Language and Gender (<i>Including Social Class, Ageism, Media</i>)
		F8010122	Language Evaluation and Assessment (<i>Including Test Specifications, Test of Listening and Speaking, Reading and Writing</i>)
		F8010123	Language of the Disabled (<i>Including Deaf Culture, Visually Impaired Language/Braille, Sign Language</i>)
		F8010124	Language, Media and Culture (<i>Including Social Networks, Impact on Society (Age and Gender), Audience Perception</i>)
		F8010125	Lexicography
		F8010126	Linguistic Structures (<i>Including Grammatical Structures and Lexicology</i>)
		F8010127	Literary Studies (<i>Including Literary Genres, Stylistics</i>)
		F8010128	Literary Theory
		F8010129	Malay Language and Literature
		F8010130	Malaysian Languages and Literature
		F8010131	Morphology
		F8010132	Phonetics and Phonology (<i>Including Prosody</i>)
		F8010133	Pragmatics (<i>Including Conversation Analysis, Non-Verbal Language</i>)

Pragmatics (including Conversation Analysis, Non-verbal Language)

- F8010134 Science of Communication
- F8010135 Semantics
- F8010136 Sociolinguistics (*Including Language, Culture and Society, Language Change, Social Dialects, Regional Dialects, Multilingualism, Language Maintenance and Shift*)
- F8010137 Syntax
- F8010138 Translation and Interpretation Studies
- F8010139 World Language and Literature Studies
- F8010199 Other Linguistics and Literature n.e.c.

F8010200

Historical and Civilisation Studies

- F8010201 Archaeological Science
- F8010202 Archaeology of Agricultural and Pastoral Societies
- F8010203 Archaeology of Complex Societies: Asia, Africa Oceania and the Americas
- F8010204 Archaeology of Complex Societies:
- F8010205 Europe, the Mediterranean and the Levant
- F8010206 Archaeology of Hunter-Gathered Societies (*Including Pleistocene Archaeology*)
- F8010207 Biography
- F8010208 Constitutional History of Malaysia
- F8010209 Cultural History
- F8010210 Economic and Commercial History of Malaysia
- F8010211 Emergence of the Third World
- F8010212 Foreign Policy
- F8010213 Historical Archaeology (*Including Industrial Archaeology*)
- F8010214 History of Civilisations
- F8010215 History of Local Government of Malaysia
- F8010216 History of Political Development in Malaysia
- F8010217 Malay Historiography
- F8010218 Malay Society
- F8010219 Malay World
- F8010220 Maritime Archaeology
- F8010221 Methods and Ideas of History
- F8010222 Modern History
- F8010223 Muslim History
- F8010224 Muslim Society
- F8010225 Nationalism in Southeast Asia and Malaysia
- F8010226 Prehistory of Southeast Asia
- F8010227 World Historical Studies
- F8010299 Other Historical and Civilisation Studies n.e.c.

F8010300

Philosophy

- F8010301 Aesthetics
- F8010302 Applied Ethics (*Including Bioethics and Environmental Ethics*)
- F8010303 Applied Philosophy
- F8010304 Comparative Philosophy
- F8010305 Epistemology
- F8010306 Ethical Theory

F8010307	Ethics
F8010308	Hermeneutic Theory
F8010309	History and Philosophy of Ideas
F8010310	Islamisation of Knowledge
F8010311	Logic
F8010312	Metaphysics
F8010313	Phenomenology
F8010314	Philosophy of Action
F8010315	Philosophy of Language
F8010316	Philosophy of Minds
F8010317	Philosophy of Specific Culture
F8010318	Social Philosophy
F8010399	Other Philosophy n.e.c.

F8010400

Arts and Culture

F8010401	Aboriginal Culture Studies
F8010402	Ceramic Arts
F8010403	Consumption and Everyday Life
F8010404	Costumes
F8010405	Cultural Policy Studies
F8010406	Cultural Theory
F8010407	Culture, Gender and Sexuality
F8010408	Design Studies
F8010409	Drama
F8010410	E-Culture <i>(Including Digitisation of Cultural Heritage)</i>
F8010411	E-Museum <i>(Including Virtual Museums)</i>
F8010412	Ethnomusicology
F8010413	Filming Tradition
F8010414	Islamic Calligraphy
F8010415	Material Culture
F8010416	Metal Handicraft Arts and Tradition
F8010417	Multicultural, Intercultural and Cross-Cultural Studies
F8010418	Popular Culture
F8010419	Post and Colonial and Global Culture Studies
F8010420	Screen and Media Culture
F8010421	Theatre
F8010422	Traditional Arts and Culture
F8010423	Traditional Costumes
F8010424	Traditional Performing Arts
F8010425	Traditional Textile <i>(Including Batik, Songket, Pua Kumbu, Limau, Hand-Woven Materials)</i>
F8010426	Wood Carving Tradition
F8010499	Other Arts and Culture n.e.c.

F8010500

Religious Studies

F8010501	Atheism and Free Thinkers
F8010502	Buddhist Studies
F8010503	Christian Theology <i>(Including Biblical Studies and Church History)</i>
F8010504	Comparative Religion

F8010505 Deviance
 F8010506 Fundamentalism
 F8010507 Hindu Studies
 F8010508 Ijtihad and Tajdid (*Religious Revivalism*)
 F8010509 Indigenous Beliefs
 F8010510 Islamic Studies
 F8010511 Jewish Studies
 F8010512 Missionary and Propagation Studies
 F8010513 Moral (Akhlaq)
 F8010514 Mysticism
 F8010515 Philosophy of Religion
 F8010516 Psychology of Religion
 F8010517 Quranic and Hadith Studies
 F8010518 Religion and Civilisation
 F8010519 Religion and Modernisation
 F8010520 Religion and Society
 F8010521 Religious Education
 F8010522 Studies in Other Religious Traditions
 F8010523 Theology and Religious Studies
 F8010524 Ummatic Studies
 F8010599 Other Religious Studies n.e.c.

F8010600

Performing Arts and Music

F8010601 E-Performance (*Including Virtual Performance of Dancers and Arts*)
 F8010602 Indigenous Musical Instruments
 F8010603 Indigenous Performing Arts and Music
 F8010604 Modern Dances
 F8010605 Modern Music
 F8010606 Telematic Choreography
 F8010607 Traditional Musical Instruments
 F8010608 Traditional/Classical Dances
 F8010609 Traditional/Classical Music
 F8010699 Other Performing Arts and Music n.e.c.

F8010700

Visual Arts and Crafts

F8010701 Crafts
 F8010702 Fine Arts Sculpture and Painting
 F8010703 Graphics Arts
 F8010704 Photography
 F8010799 Other Visual Arts and Crafts n.e.c.

F8010800

History and Philosophy of Sciences and Medicine

F8010801 History and Philosophy of Medicine
 F8010802 History and Philosophy of Science and Technology
 F8010803 Sociology and Social Studies of Science and Technology
 F8010899 Other History and Philosophy of Sciences and Medicine n.e.c.

F8010900

Clinical Linguistics

F8010901 Clinical Morphology and Syntax

F8010902	Clinical Phonetics and Phonology
F8010903	Clinical Semantics and Pragmatics
F8010904	Perceptual Analysis
F8010905	Profiles of Clinical Data
F8010999	Other Clinical Linguistics n.e.c.

F8011000	Advancement of Humanities Knowledge
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F8011001	E-Culture
F8011099	Other Advancement of Humanities

F8019900	Other Humanities n.e.c.
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CATEGORY	GROUP	AREA	SUBJECT
F9010000			ECONOMICS, BUSINESS AND MANAGEMENT
	F9010100	Accounting	
		F9010101	Accounting Education
		F9010102	Accounting for Non-Profit Organisations
		F9010103	Accounting History
		F9010104	Accounting Information System <i>(Including IT and Accounting)</i>
		F9010105	Audit <i>(Including Social Audit, Forensic Audit, Environmental Audit)</i>
		F9010106	Behavioural Accounting
		F9010107	Bicameral Accounting
		F9010108	Corporate Governance <i>(Including Accountability, Ethics, Integrity)</i>
		F9010109	Corporate Social Responsibility Accounting
		F9010110	Environmental Accounting
		F9010111	Financial Accounting
		F9010112	Financial Reporting <i>(Including Accounting Regulation, Accounting Standards, Accounting Theory, Standard-Setting Process, Financial Reporting in Private and Public Sector Organisations)</i>
		F9010113	Forensic Accounting
		F9010114	Human Resource Accounting
		F9010115	Intellectual Capital
		F9010116	International Accounting
		F9010117	Islamic Accounting
		F9010118	Management Accounting <i>(Including Strategic Management Accounting, Performance Management, Cost Management, Management Accounting Control System)</i>
		F9010119	Natural Resource Accounting
		F9010120	Public Sector Accounting
		F9010121	Taxation
		F9010122	Zakat Accounting
		F9010199	Other Accounting n.e.c.
	F9010200	Economics/Applied Economics	
		F9010201	Agricultural and Food Policies
		F9010202	Agricultural Developments
		F9010203	Agricultural Economics
		F9010204	Commercialisation <i>(Including Agribusiness Management, Contract Manufacturing, Market Development Studies, Marketing, Packaging of Technologies, Patent and Licensing, Pilot Scale, Production Economics, Techno-Economic Feasibility Studies Transfer of Technologies and Globalisation)</i>
		F9010205	Construction Economics
		F9010206	Economic Development and Growth
		F9010207	Economic Geography
		F9010208	Economic History
		F9010209	Economic Modelling and Forecasting

F9010210	Economics of Cooperative
F9010211	Environmental Economics
F9010212	Farmer's Organisation
F9010213	Financial and Monetary Economics
F9010214	Financial Literacy
F9010215	Globalisation
F9010216	Health Economics
F9010217	Industrial Economics
F9010218	Industrial Organisation
F9010219	International Economics
F9010220	International Finance
F9010221	International Trade (<i>Including Competitiveness, Globalisation, Trade Issues and Policies</i>)
F9010222	Islamic Economics
F9010223	Labour Economics
F9010224	Macroeconomics (<i>Including Monetary and Fiscal Theory; and Macroeconomics Issues such as Balance of Payments Issues, Exchange Rates Issues, Fiscal Policy Issues, Income Policy Issues, Industrial Concentration, Monetary Policy Issues, National Accounts, Poverty and Equity, Price Stability, Productivity and Growth, Taxation Issues, Social Security, Cooperative, Agriculture Productivity and Growth and Land Use</i>)
F9010225	Management and Productivity Issues (<i>Including Accountability, Ethics, Industrial Relations Issues, Labour Issues, Quality Management, Shareholder Rights, Transparency and Wage Policies</i>)
F9010226	Microeconomics (<i>Including Microeconomics Issues such as Consumption Issues, Industrial Organisations Issues, Industry Costs and Structure Issues, Industry Policy Issues, Taxation, Job Security, Social Insurance, Land Use, Health Insurance, Financial Literacy, Retirement Planning, Family Economics, Estate Planning and Consumerism</i>)
F9010227	Natural Resource Economics
F9010228	Public Finance
F9010229	Public Sector Economics
F9010230	Regional Agriculture
F9010231	Regional Economics
F9010232	Resource Economics
F9010233	Socio Economic Development (<i>Including Affirmative Action, Distribution, Equity Issues, Minority Groups, Poverty, Social Mobility, Burden of Disease, Governance, Child Welfare, Social Equality, Social Capital and Human Capital</i>)
F9010234	Standardisation and Calibration Services (<i>Including Communication Service Standard, Defence Standards and Calibration, Environment Standard, Manufacturing Standards and Calibration, Measurement Standard and Calibration, Optical Standards and Calibration, Quality Assurance, Radiation Standards and Calibration, Service Industries Standards and Calibration, Radiation Dosimetry Services, Ophthalmic and Contact Lenses Standards</i>)

CONTACT LENSES STANDARDS

F9010235 Transport Economics
F9010236 Urban and Regional Economics
F9010237 Welfare Economics
F9010299 Other Economics/Applied Economics n.e.c.

F9010300

Economic Theory

F9010301 Agricultural Economics Theory
F9010302 Macroeconomic Theory
F9010303 Mathematical Economics
F9010304 Microeconomic Theory
F9010305 Political Economics
F9010399 Other Economic Theory n.e.c.

F9010400

Economic History and History of Economic Thought

F9010401 Comparative Economic System
F9010402 Economic History
F9010403 History of Economic Thought
F9010499 Other Economic History and History of Economic Thought n.e.c.

F9010500

Econometrics

F9010501 Applied Econometrics
F9010502 Basic Econometrics
F9010503 Cross Sectional Studies
F9010504 Econometrics Modelling
F9010505 Panel Data Analysis
F9010506 Regressive Analysis
F9010507 Time Series Econometrics
F9010599 Other Econometrics n.e.c.

F9010600

Management

F9010601 Agribusiness
F9010602 Agricultural Management
F9010603 Behavioural Studies, Resource Management, Knowledge Management

F9010604 Business Ethics
F9010605 Crisis and Risk Management
F9010606 Decision Science
F9010607 Electronic Commerce
F9010608 Entrepreneurial Studies
F9010609 Entrepreneurship
F9010610 Environmental Management
F9010611 Estate Planning and Management
F9010612 Health Management
F9010613 Industrial Relations
F9010614 International Business Management
F9010615 Islamic Management
F9010616 Management Information System
F9010617 Marketing
F9010618 Multimedia Management
F9010619 Operational Management

F9010620	Organisational Studies
F9010621	Plantation Management <i>(Including Crop Management for Banana, Cocoa, Coconut, Coffee, Oil Palm, Pepper, Pineapple, Rubber, Sago, Sugarcane, Tea, Papaya and Oil Palm Mixed With Other Crops e.g. Dragon Fruit)</i>
F9010622	Procurements
F9010623	Public Sector Management
F9010624	Quality Management <i>(Including Total Quality Management (TQM))</i>
F9010625	Science and Technology Management
F9010626	Strategic Management
F9010627	Techno-Economics
F9010699	Other Management n.e.c.
F9010700	Human Resource Management (HRM)
F9010701	Compensation and Benefits
F9010702	Employee Development
F9010703	Employee Relations
F9010704	Human Resource Planning
F9010705	Industrial Relations
F9010706	Managing Multiculturalism
F9010707	Occupational Safety and Health
F9010708	Performance Appraisal
F9010709	Recruitment and Selection
F9010799	Other Human Resource Management (HRM) n.e.c.
F9010800	Marketing
F9010801	Advertising
F9010802	Agricultural Marketing
F9010803	Brands Management
F9010804	Communications
F9010805	Consumer Behaviour
F9010806	Halal Food Marketing
F9010807	Halal Product Marketing
F9010808	Industrial Marketing
F9010809	Market Research
F9010810	Marketing Audit
F9010811	Marketing Information System
F9010812	Marketing of Professional Services
F9010813	Marketing Plan
F9010814	Promotion
F9010815	Public Relations
F9010816	Purchasing
F9010817	Retailing
F9010818	Sales and Distribution
F9010819	Service Marketing
F9010820	Strategic Marketing
F9010821	Wholesaling
F9010899	Other Marketing n.e.c.
F9010900	Human Resource Development (HRD)

	F9010901	Action Learning
	F9010902	Adult Learning and Development
	F9010903	Building Capacity
	F9010904	Career Development
	F9010905	Continuing Professional Development
	F9010906	Employee Counselling
	F9010907	Empowerment of Employees
	F9010908	In-Service Training (<i>Including Personnel Training for K-Soldier Development</i>)
	F9010909	Knowledge Management
	F9010910	K-Workers
	F9010911	Learning Organisation
	F9010912	Learning Transfer
	F9010913	Management Development
	F9010914	Organisation Commitment
	F9010915	Organisational Development
	F9010916	Performance Management
	F9010917	Team Building
	F9010918	Trainability
	F9010919	Training Design
	F9010920	Training Management
	F9010921	Workplace Learning
	F9010999	Other Human Resource Development (HRD) n.e.c.
F9011000		Entrepreneurship
	F9011001	Agricultural Entrepreneurship (<i>Including Plant Industry in Post Harvest Packaging, Post Harvest Logistic, Precision Agriculture and Branding</i>)
	F9011002	Corporate Entrepreneurship
	F9011003	Entrepreneurial Development
	F9011004	Entrepreneurial Studies
	F9011005	Entrepreneurship Education
	F9011006	Family Business
	F9011007	Financing Small Business
	F9011008	Franchising
	F9011009	Intrapreneurship
	F9011010	Small Business Management
	F9011011	Small-Medium Enterprises (SME)
	F9011012	Technopreneurs
	F9011013	Training
	F9011099	Other Entrepreneurship n.e.c.
F9011100		Finance
	F9011101	Banking
	F9011102	Capital Market
	F9011103	Corporate Finance
	F9011104	Financial Engineering
	F9011105	Financial Institutions
	F9011106	Financial Literacy
	F9011107	Financial Management
	F9011108	Insurance

	F9011109	International Finance
	F9011110	Market Efficiency
	F9011111	Off-Shore Finance
	F9011112	Risk Management
	F9011113	Stock Broking
	F9011114	Venture Capital
	F9011115	Wealth Management <i>(Including Financial Planning, Asset Accumulation and Management)</i>
	F9011199	Other Finance n.e.c.
F9011200		Investment
	F9011201	Futures
	F9011202	Hedge Fund
	F9011203	Initial Public Offers (IPO)
	F9011204	Institutional Investment
	F9011205	Islamic Investment Instrument
	F9011206	Market Efficiency
	F9011207	Mergers and Acquisitions
	F9011208	Mutual Fund
	F9011209	Real Estate
	F9011210	Stock Market Studies
	F9011299	Other Investment n.e.c.
F9011300		Logistics and Transportation
	F9011301	Air Transport Management
	F9011302	Logistics
	F9011303	Maritime <i>(Including Coastal Water Transport, Inland Water Transport, International Sea Transport, Transport Security)</i>
	F9011304	Rail Transport <i>(Including Rail Ride)</i>
	F9011305	Road Transport <i>(Including of Bicycle and Pedestrianisation, Road Safety, Integrated Transport System, Road Ride)</i>
	F9011306	Space Transport <i>(Including Air Transport)</i>
	F9011307	Supply Chain Management
	F9011308	Transport Economics
	F9011309	Transport Engineering
	F9011310	Transport Equipment <i>(Including Aerospace Equipment, Automotive Equipment, Aviation Equipment, Environmental Friendly Transport Systems, Navigation Equipment, Rail (Transport) Equipment, Ships and Boats)</i>
	F9011311	Transport Marketing
	F9011312	Transport Modelling and Planning <i>(Including Routing, Congestion Analysis and Road Planning, Public Transport, Analysis and Scheduling, Accidents Black Spots Analysis, Location and Distribution Analysis and Travel Behaviour Analysis)</i>
	F9011313	Transport Policy and Planning
	F9011314	Urban Transport
	F9011399	Other Logistics and Transportation n.e.c.
F9011400		Technology Management
	F9011401	Appropriate Technology

F9011402	Best Practice Management
F9011403	Change Management
F9011404	E-Business
F9011405	Emerging Technology
F9011406	Ethics, Security and Safety
F9011407	Forensic
F9011408	Green Technology/Low Carbon Technology
F9011409	Human Resource Management
F9011410	Human Technology Interaction
F9011411	ICT Management
F9011412	Innovation Management
F9011413	Intellectual Property Rights (IPRs)
F9011414	MOT Education and Training
F9011415	New Product and Service Management
F9011416	Project Evaluation and Control
F9011417	Project Planning
F9011418	Project Procurement
F9011419	Quality Performance and Reliability
F9011420	Research and Development Management
F9011421	Road Mapping
F9011422	Science and Technology Management
F9011423	Strategic Management of Technology
F9011424	Supply Chain Management
F9011425	Technology Acquisition
F9011426	Technology Adoption and Acceptance
F9011427	Technology Alliances and Merge
F9011428	Technology and Assessment/Analysis
F9011429	Technology and Civilisation
F9011430	Technology and Development
F9011431	Technology and Law
F9011432	Technology Audit
F9011433	Technology Benchmarking
F9011434	Technology Capability <i>(Including Enhancement of Science and Technology Capabilities in Defence Technology e.g. Aerospace and Communication System, Software, Automotive, Space Technology and Propulsion)</i>
F9011435	Technology Commercialisation
F9011436	Technology Diffusion
F9011437	Technology Financing, Investment
F9011438	Technology Foresight/Forecasting
F9011439	Technology Impact
F9011440	Technology Incubation
F9011441	Technology Indicators
F9011442	Technology Infrastructure
F9011443	Technology Innovation
F9011444	Technology Intelligence
F9011445	Technology Life Cycle
F9011446	Technology Monitoring and Control
F9011447	Technology Policy
F9011448	Technology Policy Studies
F9011449	Technology Prospecting

F9011450	Technology Risk
F9011451	Technology Road Map
F9011452	Technology Strategy
F9011453	Technology Transfer
F9011454	Technology Venture
F9011455	Technopreneur
F9011456	Value Management
F9011499	Other Technology Management n.e.c.

F9011500

Tourism and Hospitality

F9011501	Agrotourism
F9011502	Ecotourism Studies
F9011503	Education and Training
F9011504	Food and Hospitality Services
F9011505	Gerontourism
F9011506	Health Tourism
F9011507	Heritage Management
F9011508	Hospitality Management
F9011509	Impact Studies
F9011510	Leisure Studies
F9011511	Product Development
F9011512	Public Policy
F9011513	Social Cultural
F9011514	Support Services
F9011515	Tourism and Economy
F9011516	Tourism and Technologies
F9011517	Tourism and Transport
F9011518	Tourism Economics
F9011519	Tourism Facilities
F9011520	Tourism Forecasting
F9011521	Tourism Management
F9011522	Tourism Marketing
F9011523	Tourism Policy
F9011524	Tourism Resource Appraisal
F9011525	Tourist Behaviour
F9011526	Urban Tourism
F9011599	Other Tourism and Hospitality n.e.c.

F9011600

Operations Management

F9011601	Advancement of Operations Management
F9011602	Aggregation Planning
F9011603	Balanced Scorecard
F9011604	Benchmarking and Best Practice Management
F9011605	Business Process Reengineering
F9011606	Capacity Requirements Planning
F9011607	

Commercial Services (Including of Electricity, Gas and Water Services and Utilities (e.g. Electricity Services and Utilities, Gas Services and Utilities, Public Services and Utilities, Water Services and Utilities) , Waste Management and Recycling (e.g. Recycling Waste Management), Wholesale and Retail Trade (e.g. E-Commerce, Farmer's Market, Fruit

Carnival, Hypermarket, Retail Trade, Wholesale Trade, M-Commerce, Virtual Services, E-Contents Sales), Finance, Property and Business Services (e.g. Accounting, Auditing, Banking, Commercial Investigation, Commercial Securities Services, Insurance Services, Investment Services, Islamic Financial Services, Land Administration and Development, Professional Services, Property Management), and Tourism (e.g. Agrotourism, Economics Tourism, Ecotourism, Health Tourism, Recreational Services, Socio-Cultural Issues, Tourism Infrastructural Development, Urban Tourism, E-Tourism, Geo-Tourism, Home Stay, Gerontourism, Food Tourism, Sports Tourist))

F9011608	Decision Support System
F9011609	Design of Experiment
F9011610	Design of Work System
F9011611	Enterprise Resource Planning
F9011612	Ethics in Operation Management
F9011613	Inventory Management and Control
F9011614	JIT Operations
F9011615	Layout Planning
F9011616	Lean Operations
F9011617	Location Planning
F9011618	Logistics and Transportation
F9011619	New Product Development
F9011620	Operation Research/Management Science
F9011621	Operations Policy
F9011622	Operations Strategy (<i>Including Tactical Planning for Logistics in Defence and Security Systems such as Manpower Planning, Inventory Planning, Distribution and Routing, Intelligent Systems, Computational Mathematics, Data Analysis, Quality and Productivity and Bio Defence as in Psychological War</i>)
F9011623	Process Improvement
F9011624	Process Management
F9011625	Process Measurements and Control
F9011626	Process Selection
F9011627	Product and Service Design
F9011628	Product Life Cycle
F9011629	Project Management
F9011630	Quality Improvement
F9011631	Quality System
F9011632	Service Operation
F9011633	Service Quality Management
F9011634	Simulation Modelling
F9011635	Statistical Process Control
F9011636	Supply Chain Management
F9011637	Total Productive Maintenance
F9011638	Total Quality Management
F9011699	Other Operations Management n.e.c.

F9011700

International Business

F9011701	Cross-Cultural Management
F9011702	Expatriate Adjustment

F9011703	International Advertising
F9011704	International Entrepreneurship
F9011705	International Franchising
F9011706	International Human Resource Management
F9011707	International Logistics Management
F9011708	International Negotiation Strategies
F9011709	International Operations Management
F9011710	International Organisational Behavior
F9011711	Multinational Management
F9011712	Multinational Strategic Management
F9011713	Strategic Alliance
F9011799	Other International Business n.e.c.
F9011800	Islamic Finance
F9011801	Islamic Banking
F9011802	Islamic Corporate Governance
F9011803	Islamic Financial Engineering
F9011804	Islamic Insurance
F9011805	Islamic Risk Management
F9011899	Other Islamic Finance n.e.c.
F9019900	Other Economics, Business and Management n.e.c.

DIVISION	CATEGORY	GROUP	SUBJECT
1			DEFENCE AND SECURITY
	S1010000		DEFENCE
		S1011100	Defence
		S1011200	Defence Equipment (<i>Including Arms, Weapons, Weaponry, Munitions, Propellant, Armour, Camouflage, War-Games, Hyperbaric Medicine, Aviation Medicine</i>)
		S1019900	Other Defence n.e.c.
	S1020000		LOGISTICS
		S1021100	Civil Engineering
		S1021200	Make Shift Engineering
		S1029900	Other Logistics n.e.c.
2			SUSTAINABLE ECONOMIC DEVELOPMENT
	S2010000		PLANT PRODUCTION AND PRIMARY PRODUCTS
		S2011100	Agro Industrial Technology and Sustainability
		S2011200	Commodity Industry
		S2011300	Crop Production
		S2011400	Food Industry
		S2011500	Food Safety
		S2011600	Food Security
		S2011700	Manufacturing Industry
		S2011800	Market Competitiveness
		S2011900	Novel Herb Industry
		S2012000	Plant Primary Products Equipment
		S2012100	Plant Production Equipment
		S2012200	Value Added By-Products
		S2019900	Other Plant Production and Primary Products n.e.c.
	S2020000		ANIMAL PRODUCTION AND PRIMARY PRODUCTS
		S2021100	Agro Industry
		S2021200	Animal Primary Product Equipment
		S2021300	Animal Production Equipment
		S2021400	Aquaculture Industry
		S2021500	Equestrian
		S2021600	Feed Industry
		S2021700	Fishery Industry
		S2021800	Food Safety
		S2021900	Food Security
		S2022000	Livestock Industry
		S2022100	Sustainability
		S2029900	Other Animal Production and Primary Products n.e.c.
	S2030000		MINERAL RESOURCES (EXCLUDING ENERGY)
		S2031100	Environmentally Sustainable Mineral Resource Activities

S2031200 Exploration
S2031300 Prevention and Treatment of Pollution
S2031400 Primary Mining and Extraction Processes
S2031500 Treatment of Ores and Minerals
S2039900 Other Mineral Resources (Excluding Energy) n.e.c.

S2040000

ENERGY RESOURCES

S2041100 Exploration
S2041200 Mining and Extraction
S2041300 Non-Conventional Energy Resources
S2041400 Nuclear Energy
S2041500 Preparation and Supply of Energy Source Materials
S2041600 Renewable Energy
S2049900 Other Energy Resources n.e.c.

S2050000

ENERGY SUPPLY AND SECURITY

S2051100 Energy Conservation and Efficiency
S2051200 Energy Distribution
S2051300 Energy Production
S2051400 Energy Security
S2051500 Energy Transformation
S2051600 Green Energy
S2059900 Other Energy Supply and Security n.e.c.

S2060000

MANUFACTURING

S2063100 Agricultural Chemicals
S2063200 Basic Metal Products (*Including Smelting*)
S2063300 Ceramics, Glass and Industrial Mineral Products
S2063400 Communication Equipment
S2063500 Composite Material
S2063600 Computer Hardware and Electronic Equipment
S2063700 Consumer Products
S2063800 Environmentally Sustainable Manufacturing
S2063900 Fabricated Metal Products
S2064000 Fibre Processing and Textiles, Footwear and Leather Products
S2064100 High Performing Computing
S2064200 Human Pharmaceutical Products
S2064300 Industrial Chemicals and Related Products
S2064400 Industrial Mineral Products
S2064500 Instrumentation
S2064600 Latex Product Processing
S2064700 Machinery and Equipment
S2064800 Materials Performance and Processes Analysis
S2064900 Milling and Process Materials
S2065000 Nanotechnology
S2065100 Pollution Prevention and Control
S2065200 Processed Food Products and Beverages
S2065300 Radiation Technology
S2065400 Standard Supporting Technologies
S2065500 Synthesis and Design of Fine and Speciality Chemicals

S2065600 Transport Equipment
S2065700 Veterinary Pharmaceutical Products
S2065800 Wood, Wood Products and Paper
S2069900 Other Manufacturing n.e.c.

S2070000

CONSTRUCTION

S2071100 Building Management and Services
S2071200 Construction Materials Performance and Processes
S2071300 Construction Processes
S2071400 Design
S2071500 Environmentally Sustainable Construction
S2071600 Planning
S2079900 Other Construction n.e.c.

S2080000

TRANSPORT

S2081100 Air and Space Transport
S2081200 Environmentally Sustainable Transport
S2081300 Ground Transport
S2081400 Water Transport
S2089900 Other Transport n.e.c.

S2090000

INFORMATION AND COMMUNICATION SERVICES

S2091100 Communication Networks and Services
S2091200 Communication Services
S2091300 Computer Software
S2091400 Environmentally Sustainable Information and Communication Services

S2091500 Geoinformation Services
S2091600 Graphic and Multimedia Services
S2091700 ICT Infrastructures
S2091800 Information Services (*Including Library and Repository*)
S2091900 Intelligent Systems
S2092000 Media Services
S2092100 Trusted and Autonomic Computing
S2099900 Other Information and Communication Services n.e.c.

S2100000

COMMERCIAL SERVICES

S2101100 Electricity, Gas and Water Services and Utilities
S2101200 Environmentally Sustainable Commercial Services and Tourism
S2101300 Finance, Property and Business Services
S2101400 Halal Hub
S2101500 Health Tourism
S2101600 Islamic Finance
S2101700 Tourism
S2101800 Waste Management and Recycling
S2101900 Wholesale and Retail Trade
S2109900 Other Commercial Services n.e.c.

S2110000

ECONOMIC FRAMEWORK

S2111100 Commercialisation and Entrepreneurial Development

S2111200 Innovation and Intellectual Property
S2111300 International Trade
S2111400 Macroeconomics
S2111500 Management and Productivity
S2111600 Microeconomics
S2111700 Socio-Economic Development
S2111800 Standardisation and Calibration Services
S2119900 Other Economic Framework n.e.c.

S2120000

NATURAL RESOURCES

S2121100 Biodiversity
S2121200 Forestry Resources
S2121300 Industrial Raw Materials
S2121400 Mineral Resource
S2121500 Soil Resources
S2121600 Water Resources
S2121700 Wildlife Resources
S2129900 Other Natural Resources n.e.c.

S2130000

FOREST PRODUCTION AND PRODUCTS

S2131100 Advanced Wood Technology
S2131200 Carbon Sequestration and Stock
S2131300 Enhanced Conservation
S2131400 Forest Recreation and Therapy
S2131500 Improved Forest Management
S2131600 Medicinal Value
S2131700 Renewable Energy
S2131800 Sustainable Raw Materials
S2139900 Other Forest Production and Products n.e.c.

S2140000

MARINE RESOURCES AND PRODUCTS

S2141100 Marine Archeology
S2141200 Marine Biology
S2141300 Marine Biotechnology
S2141400 Marine Chemistry
S2141500 Marine Ecology
S2141600 Marine Geology
S2141700 Marine Technology
S2141800 Oceanography
S2149900 Other Marine Resources and Products n.e.c.

S2150000

BIORESOURCE PRODUCTION AND PRODUCTS

S2151100 Advanced Natural Fibre Technology
S2151200 Biocomposite Industry
S2151300 Biofuel and Biogas
S2151400 Bioresource Equipment Production
S2151500 Improved Bioresource Management
S2151600 Microbial Industry
S2151700 Nano Materials
S2151800 Nano Materials Production Equipment

S2151900 Natural Products and Derivatives
 S2152000 Sustainable Bioresources
 S2152100 Sustainable Green Technology
 S2159900 Other Bioresource Production and Products n.e.c.

SOCIETY

S3010000

HEALTH

S3011100 Alternative Medicine
 S3011200 Biomedical Sciences
 S3011300 Clinical
 S3011400 Health and Support Services
 S3011500 Legislation and Bioethics
 S3011600 Medical Devices, System and Technologies
 S3011700 Pharmaceutical and Nutraceutical
 S3011800 Public Health
 S3019900 Other Health n.e.c.

S3020000

EDUCATION

S3021100 Computer-Based Teaching and Learning
 S3021200 Early Childhood and Primary Education
 S3021300 Education Policy
 S3021400 Educational Administration
 S3021500 Lifelong Learning
 S3021600 Secondary Education
 S3021700 Special Education
 S3021800 Teaching and Learning
 S3021900 Technical and Vocational Education
 S3022000 Tertiary Education
 S3029900 Other Education n.e.c.

S3030000

SOCIAL DEVELOPMENT AND COMMUNITY SERVICES

S3031100 Art, Sport and Recreation
 S3031200 Community Services
 S3031300 Demography and Population Studies
 S3031400 Ethical Issues
 S3031500 International Relations
 S3031600 Nation Building
 S3031700 Public Services
 S3031800 Urban and Rural Issues
 S3039900 Other Social Development and Community Services n.e.c.

S3040000

ARTS, CULTURE AND HERITAGE

S3041100 Arts
 S3041200 Chinese Culture
 S3041300 Culture
 S3041400 Heritage
 S3041500 Indian Culture
 S3041600 Indigenous Culture
 S3041700 Malay Culture
 S3041800 Malaysian Culture

S3049900 Other Arts, Culture and Heritage n.e.c.

S3050000

RELIGION AND ETHICS

S3051100 Moral and Ethics

S3051200 Religion

S3059900 Other Religion and Ethics n.e.c.

S3060000

SOCIAL PROBLEMS

S3061100 Class

S3061200 Ethnic

S3061300 Immigrants

S3061400 Middle Age Problems

S3061500 Old Age Problems

S3061600 Social Inequalities

S3061700 Youth Problems

S3069900 Other Social Problems n.e.c.

4

ENVIRONMENT

S4010000

ENVIRONMENTAL KNOWLEDGE

S4011100 Built Environment

S4011200 Control of Pests, Diseases and Exotic Species

S4011300 Environmental Degradation

S4011400 Land

S4011500 Meteorology, Climate and Atmosphere

S4011600 Natural Hazards

S4011700 Nature Conservation

S4011800 Ocean

S4011900 Social Environment

S4012000 Soil

S4012100 Sustainable Environment

S4012200 Water

S4012300 Water Bodies

S4019900 Other Environmental Knowledge n.e.c.

S4020000

ENVIRONMENTAL ASPECTS OF DEVELOPMENT

S4021100 Animal Production and Animal Primary Products (Including Fishing)

S4021200 Commercial Services

S4021300 Construction

S4021400 Energy Resources

S4021500 Energy Supply

S4021600 Environmental Economic Framework

S4021700 Flora, Fauna and Biodiversity

S4021800 Green Technology Development

S4021900 Information and Communication Services

S4022000 Manufacturing

S4022100 Mineral Resources (Excluding Energy)

S4022200 Plant Production and Plant Primary Products (Including Forestry)

S4022300 Tourism Development

S4022400 Transport

S4022500 Water Resources Development
 S4029900 Other Environmental Aspects of Development n.e.c.

S4030000

ENVIRONMENTAL MANAGEMENT AND OTHER ASPECTS

S4031100 Atmosphere (Excluding Climate and Weather)
 S4031200 Climate and Weather
 S4031300 Ecosystem Assessment and Management
 S4031400 Environmental Lifecycle Assessment
 S4031500 Environmental Management
 S4031600 Farmland
 S4031700 Forest and Wooded Lands
 S4031800 Fresh Water and Estuarine Environment
 S4031900 Land Use Planning
 S4032000 Marine and Coastal Environment
 S4032100 Mining Environment
 S4032200 Park Management
 S4032300 Radio Frequency Management
 S4032400 Rehabilitation of Degraded Environment
 S4032500 Remnant Vegetation and Protected Conservation Area
 S4032600 Sparse Land (Including Permanent Grassland and the Arid Zone)
 S4032700 Urban and Industrial Environment
 S4032800 Waste Management and Recycling
 S4032900 Waste to Wealth
 S4039900 Other Environmental Management and Others Aspects n.e.c.

S4040000

ENVIRONMENTAL POLICY, LEGISLATION AND STANDARDS

S4041100 Air Quality Policy
 S4041200 Coastal and Marine Management Policy
 S4041300 Consumption Patterns, Population Issues and the Environment
 S4041400 Environmental Education and Awareness
 S4041500 Environmental Governance
 S4041600 Global Climate Change Adaptation Measures
 S4041700 Land Stewardship
 S4041800 Trade and Environment
 S4041900 Urban and Rural Land Policy
 S4042000 Urban and Rural Water Policy
 S4049900 Other Environmental Policy, Legislation and Standards n.e.c.

5

ADVANCEMENT OF KNOWLEDGE

S5010000

NATURAL SCIENCES AND ENGINEERING

S5011100 Aerospace Science
 S5011200 Agricultural Science
 S5011300 Applied Science
 S5011400 Bioinformatics
 S5011500 Biological Science
 S5011600 Biotechnology
 S5011700 Chemical Science
 S5011800 Earth Science
 S5011900 Engineering Science

S5012000 Health Science
 S5012100 Information, Computer and Communication Technology
 S5012200 Marine Sciences
 S5012300 Mathematical Science
 S5012400 Medical Science
 S5012500 Multimedia
 S5012600 Nuclear Science
 S5012700 Physical Science
 S5019900 Other Natural Sciences and Engineering n.e.c.

S5020000

HUMANITIES AND QUALITY OF LIFE

S5021100 Civilisational Studies
 S5021200 Cyber Law
 S5021300 Educational Challenges
 S5021400 Finance
 S5021500 Food Security
 S5021600 Health and Social Care
 S5021700 Humanities
 S5021800 Leisure and Recreation
 S5021900 Media, Language and Culture
 S5022000 Medical Gerontology
 S5022100 Music and Performing Arts
 S5022200 Religious Studies
 S5022300 Social Gerontology
 S5022400 Social Protection
 S5022500 Social Psychology
 S5022600 Social Science
 S5021990 Other Humanities and Quality of Life n.e.c.

6

ADVANCED EXPERIMENTAL AND APPLIED SCIENCE

S6010000

APPLIED SCIENCES, ENGINEERING AND TECHNOLOGIES

S6011100 Aerospace Science and Technology
 S6011200 Agricultural Science
 S6011300 Applied Biology
 S6011400 Applied Chemistry
 S6011500 Applied Earth Science
 S6011600 Applied Linguistics
 S6011700 Applied Mathematics
 S6011800 Applied Physics
 S6011900 Applied Science and Technology
 S6012000 Bioinformatics
 S6012100 Biotechnology
 S6012200 Digital Cultural Heritage
 S6012300 Engineering Science and Technology
 S6012400 Gerontechnology
 S6012500 Health Science
 S6012600 Information, Computer and Communication Technology
 S6012700 Medical Science
 S6012800 Multimedia

S6012900	Nanotechnology
S6013000	Nuclear Technology
S6013100	Space Science
S6019900	Other Applied Sciences, Engineering and Technologies n.e.c.