LEADING KNOWLEDGE EXCELLENCE

NATIONAL EDUCATION CODE MANUAL

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Contents

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The nation is well under way in achieving its vision of becoming the regional hub of excellence for higher education. However, much more is required if we are to achieve our potential. We have rightly recognised that not only do we need to have sufficient numbers of higher educational institutions albeit government or private but we need to distinguish ourselves by offering educational programmes and qualifications of an exceptional quality.

The Ministry of Higher Education is committed to the continuous improvement of higher education in Malaysia. We have initiated necessary steps prompting government and private Institutions of higher learning to comply with the Malaysian Qualification Framework (MQF) that all educational programmes obtain accreditation.

Our potential in offering high-quality and competitive programmes will be further strengthened through detailed planning and development of educational programmes. This will prevent unnecessary duplication or the proffering of courses not in accordance with market demands.

Governmental efforts to effectively plan, develop and monitor higher educational programmes can be further achieved via a systematic database, which led to the establishment of the National Education Code (NEC). NEC reflects commitment and expertise to help streamline the classification of educational programmes and training currently offered by the increasing number of educational establishments.

I am optimistic that all parties concerned will demonstrate their support and dedication in helping to achieve our potential via their cooperation in utilising the NEC in the planning and development of their educational programmes.

Datuk Dr. Zulkefli bin A. Hassan
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Secretary-General, Ministry of Higher Education

The National Education Code (NEC) serves to provide a coding system of education programmes and training that will support the accurate tracking, assessment and reporting of fields of study and programme registrations and completions in Malaysia. Besides helping to facilitate the collation of education surveys and databases, the NEC, endorsed as the national statistics standards on programme and training classifications, will also be used extensively for the planning and development exercises of education sector in the country.

The development of the NEC alludes to the International Standard Classification of Education 97 (ISCED97) developed by United Nations Educational Scientific and Cultural Organisation (UNESCO) in the field of education and the European Centre for Development of Vocational Training (CEDEFOP) together with the Statistical Office of the European Communities (EUROSTAT) in the field of training. References to these international bodies certify the comparability and consistency of NEC to international standards. This is deemed necessary in order to establish Malaysia as a provider of high quality education and training by 2020.

The NEC outlines a set of comprehensive guidelines and standards to be adhered to by the providers of education and training in Malaysia and subsequently for the registration of their courses, irrespective of local, regional or international programmes. It is intended to facilitate the organisation, collection and reporting of data on programme undertakings and completions, using classifications that capture the majority of the education and training programmes in Malaysia. These standards will eminently propound reliable cross data references for the creation of comparative studies and reports amongst the education providers in the country. This is in tandem with the standard operation procedures of data collection which are extensively executed by various public and private universities, public and private colleges, polytechnics and community colleges.

As such we are pleased to present the first edition of the NEC, fully confident that this will be an extremely useful and beneficial reference material for the stakeholders of the education and training sectors in the country. It is anticipated that the said sectors will endeavour to comply with the drawn up coding system as it is aimed at improving the education system of the nation.

On behalf of the Ministry of Higher Education (MoHE), I would like to acknowledge and thank the relevant stakeholders who have contributed valuable assistance towards the development of the National Education Code.

Establishment of the National Education Code

The National Education Code Manual was formulated in response to the call of the Inter-Agency Technical Committee (IATC), chaired by the Head of the Statistics Department, Malaysia to set standardised codes, classifications and definitions among all governmental organisations. This move was deemed necessary to ensure availability of up-to-date uniformed statistical information in the country. Consequently, in the IATC's meeting (Vol. 3/2007), the Ministry of Higher Education (MoHE) has been given the ownership of the National Education Code.
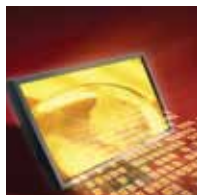
In lieu of that a Technical Working Committee comprising the Ministry of Higher Education (MoHE), Ministry of Education, Ministry of Health, Ministry of Human Resources, Ministry of Agriculture and Agro-Based Industry and the Statistics Department of Malaysia was established. During the IATC Meeting Vol. 2/2009, the Committee unanimously agreed to and accepted the National Education Code which was formulated and presented by MoHE.

The NEC encompasses the fields of education and training. It is a suitable instrument for assembling, compiling, as well as presenting statistics related to education and training both locally and internationally. The NEC uses a three-digit code, with the first two-digit adhering to the International Standard Classification of Education 97 (ISCED97) for classifying fields of education.

The third digit provides flexibility and the detailed fields at the three-digit level evoke a better understanding when allocating programmes of the two-digit fields. It should be emphasised that the three-digit levels of fields in the classification presented here have been synchronised with the fields of training classification. This system has been developed by CEDEFOP (European Centre for Development of Vocational Training) and EUROSTAT (Statistical Office of the European Communities) and has been adapted according to the needs of the Malaysian Education System.

Objectives

This manual offers guidelines for a common classification to be employed by all organisations involved in the fields of education and training within the country.

Thus, it is hoped that the NEC will be the source of reference for classifying fields of education and training in Malaysia. This includes all education programmes, i.e, initial and continuing education, general education and technical & vocational training.

Guide to Using of the NEC

1 When classifying an educational programme or a group of programmes, look at the overview of the classification on pages 9 to 12. Start by deciding which broad field it should be classified into. Next look at the narrow fields.

2 When you have found an appropriate narrow field, check the description of the field with regard to the subject content of the field on pages 17 to 46 and see which field best corresponds to the programme (programme group) that is to be classified. You may also refer to Appendix C which lists the programme contents in alphabetical order.

3 Each field description has a list of main subject content of the programmes as specified in the particular field descriptions. Check the list to make sure that the classifying programme is in the right code.

4 In cases where particular problems are encountered in the application of the field classification, it would be appreciated if the problems could be brought to the attention of MoHE to allow for the improvement of the NEC in the future.

Structure of the National Education Code Classification

The NEC is organised on three digit levels in a hierarchical system for classifying fields of education and training. As indicated in **Table 1**, the first digit level is for `broad field', the second digit level is for 'narrow field' and the third digit is for 'detailed field'.

There are altogether 9 broad fields, 25 narrow fields and 84 detailed fields in the NEC **(Table 2)**. The first digit level (broad field) denotes the broad general groupings on fields of education and training. The second digit level (the narrow field) represents `field of education' which is taken directly from the ISCED97's fields of education. The third digit level (detailed field) refers to specific instructional fields of education and training.

This third digit level classification is adapted from the *Fields of Education and Training Manual* which was produced by EUROSTAT in 1999 with some minor customisation to cater for the needs of our education system. Please refer to **Table 3** for the listing of the fields of education and training comprising the NEC.

Table 1: Structure for the NEC fields of education and training*			
Broad Field	**Narrow Field**	**Detailed Field**	**Programme Contents**
x	xx	xxx	aaaaaaaaaaaaaaaaaaa
			aaaaaaaaaaaaaaaaaaa
		xxx	aaaaaaaaaaaaaaaaaaa
			aaaaaaaaaaaaaaaaaaa
	xx	xxx	aaaaaaaaaaaaaaaaaaa
		xxx	aaaaaaaaaaaaaaaaaaa
			aaaaaaaaaaaaaaaaaaa
			aaaaaaaaaaaaaaaaaaa
	xx	xxx	aaaaaaaaaaaaaaaaaaa
			aaaaaaaaaaaaaaaaaaa
x	xx	xxx	aaaaaaaaaaaaaaaaaaa
			aaaaaaaaaaaaaaaaaaa

Table 2: Summary of the NEC fields of education and training*			
Digit	**Name of Field**		**No. of Field**
1–digit	Broad field		9
2–digit	Narrow field	Fields of education (ISCED97)	25
3–digit	Detailed field	Fields of education and training	84

Table 3: Listing of the NEC fields of education and training*

Broad Field		Narrow Field		Detailed Field	
0	GENERAL PROGRAMMES	01	Basic / broad, general programmes	010	Basic / broad, general programmes
		08	Literacy and numeracy	080	Literacy and numeracy
		09	Personal skills	090	Personal skills
1	EDUCATION	14	Teacher training and education sciences	141	Teaching and training = 143+144+145+146
				142	Education science
				143	Training for preschool teachers
				144	Training for teachers at basic levels
				145	Training for teachers with subject specialisation
				146	Training for teachers of vocational subjects
2	ARTS AND HUMANITIES	21	Arts	211	Fine arts
				212	Music and performing arts
				213	Audio-visual techniques and media production
				214	Design
				215	Craft skills
		22	Humanities	221	Religion
				222	Languages = 223+224
				223	National Language
				224	Other languages
				225	History and archaeology
				226	Philosophy and ethics
				227	History, philosophy and related subjects = 225+226

Notes: Table 1, 2 and 3 is adapted from the Field of Education and Training Manual, December 1999, EUROSTAT.

Table 3 Listing of the NEC fields of education and training*

Broad Field		Narrow Field		Detailed Field	
3	SOCIAL SCIENCES, BUSINESS AND LAW	31	Social and behavioural science	311	Psychology
				312	Sociology and cultural studies
				313	Political science and civics
				314	Economics
		32	Journalism and information	321	Journalism and reporting
				322	Library, information, archive
		34	Business and administration	341	Wholesale and retail sales
				342	Marketing and advertising
				343	Finance, banking, insurance
				344	Accounting and taxation
				345	Management and administration
				346	Secretarial and office work
				347	Working life
		38	Law	381	Syariah Law
4	SCIENCE, MATHEMATICS AND COMPUTING	42	Life science	421	Biology and biochemistry
				422	Environmental science
		44	Physical science	441	Physics
				442	Chemistry
				443	Earth science
		46	Mathematics and statistics	461	Mathematics
				462	Statistics

*Notes: Table 1, 2 and 3 is adapted from the Field of Education and Training Manual, December 1999, EUROSTAT.

Table 3: Listing of the NEC fields of education and training*

Broad Field		Narrow Field		Detailed Field	
		48	Computing	481	Computer science
				482	Computer use
5	ENGINEERING, MANUFACTURING AND CONSTRUCTION	52	Engineering and engineering trades	521	Mechanics and metal work
				522	Electricity and energy
				523	Electronics and automation
				524	Chemical and process
				525	Motor vehicles, ships and aircraft
				526	Civil engineering
				527	Material engineering
		54	Manufacturing and processing	541	Food processing
				542	Textiles, clothes, footwear and leather
				543	Materials (wood, paper, plastic and glass)
				544	Mining and extraction
				545	Applied science
		58	Architecture and building	581	Architecture and town planning
				582	Building
6	AGRICULTURE AND VETERINARY	62	Agriculture, forestry and fishery	621	Crop and livestock production
				622	Horticulture
				623	Forestry
				624	Fisheries
		64	Veterinary	641	Veterinary

*Notes: Table 1, 2 and 3 is adapted from the Field of Education and Training Manual, December 1999, EUROSTAT.

Table 3: Listing of the NEC fields of education and training*

Broad Field		Narrow Field		Detailed Field	
7	HEALTH AND WELFARE	72	Health	721	Medicine
				722	Medical services = 725+726+727
				723	Nursing and caring
				724	Dental studies
				725	Medical diagnostic and treatment technology
				726	Therapy and rehabilitation
				727	Pharmacy
		76	Social services	761	Child care and youth services
				762	Social work and counselling
8	SERVICES	81	Personal services	811	Hotel, restaurant and catering
				812	Travel, tourism and leisure
				813	Sports
				814	Domestic services
				815	Hair and beauty services
		84	Transport services	840	Transport services
		85	Environmental protection	851	Environmental protection technology
				852	Natural environments and wildlife
				853	Community sanitation services
		86	Security services	861	Protection of persons and property
				862	Occupational health and safety
				863	Military and defence

Notes: Table 1, 2 and 3 is adapted from the Field of Education and Training Manual, December 1999, EUROSTAT.

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Inter-disciplinary and Broad Programmes

This chapter serves to incorporate the criteria governing the classification of programmes as regard to those programmes that have more than one field of education and training. Users are to determine the classification of the inter-disciplinary programmes and broad programmes by following the guidelines and examples given below.

Inter-disciplinary programmes

Inter-disciplinary programmes are programmes combining (generally two) fields of education and training. For these programmes (see example 1 to 3), the 'majority rule' should be used, i.e. the subject that dominates, decides into which field the programme should be classified. The criterion for dominating is normally the time spent on the subject.

Example 1:
A programme consisting of both *441 Physics* and *442 Chemistry* should be classified according to which of the subjects dominates, i.e. the subject that consumes the most time.

Example 2:
A programme combining study of retail sales with study of office work should also be classified according to which of the fields dominates; It could either be *341 Wholesale and retail sales* or *346 Secretarial and office work.*

In both Example 1 and Example 2, subjects fall into the same field of education but in two different fields of education and training. For these illustrations, explore the use of the majority rule as both programmes are not wide enough to be classified as a 'broad programme' (please refer to the definition of broad programme).

Example 3:
A programme that mainly includes subjects within the area of computer science should be allocated to field *481 Computer science* even if a certain amount of computer engineering (field *523 Electronics and automation*) is included.

In Example 3 subjects fall into two different narrow fields (2-digit level). In this scenario, the majority rule is again used.

Broad programmes

Broad programmes mean that an education or training programme comprises parts of several - AT LEAST THREE - fields of education and training, mainly within the same field of education (2-digit level), of which none of the fields is clearly dominating. These broad programmes should be classified by using '0' as the third digit. This is applicable only for the fields of education (two-digit levels) that are divided into three or more fields of education and training.

It is to be noted that the '0' in the third position is to be used only to identify indication of broad programmes, and it should not be used as a rest code. However, a '0' in the second position, in principal, is not allowed.

Example 4:

A programme in business and administration, consisting of management, financing, sales and marketing etc. should be classified as *340 Business and administration (broad programmes).*

Example 5:

For a programme in electrical installation, more time may be devoted to other supporting subjects such as language, mathematics, natural science etc. than the intended vocational subject. However, in this case, this programme should be classified as *522 Electricity and energy* and not as a broad programme.

Programmes aimed at one specific vocational field consisting of supporting subjects from other fields are not considered as broad programmes in this context.

Not specified or unable to classify

As a last resort, the '9' may be used in the third position if information about a programme is not available or if it is not possible to classify a specific programme into any of the detailed fields. A '9' in the second position is in principal not allowed, except that in data collections on the 2-digit level, '99' can be used if the 2-digit field is not known.

Example 6:

A programme in engineering where additional information is not available, should be classified as 529.

Field Description of National Education Code

The followings are the description of each field of education and training with regard to the subject content of the field and the list of programmes under each field description.

It should be pointed out that the codes *380 Law, 640 Veterinary and 840 Transport services* are the applications of '0' in the third position when there is only one detailed field for the corresponding narrow field.
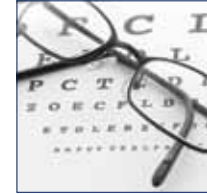
Meanwhile, the codes *140 Teacher training and education science (broad programmes), 210 Arts (broad programmes), 220 Humanities (broad programmes), 310 Social and behavioural science (broad programmes) 340 Business and administration (broad programmes), 440 Physical science (broad programmes), 520 Engineering and engineering trades (broad programmes), 540 Manufacturing and processing (broad programmes), 620 Agriculture, forestry and fichery (broad programmes), 720 Health (broad programmes), 810 Personal services (broad programmes), 850 Environmental protection (broad programmes)* and *860 Security services (broad programmes)* are the applications of '0' in the third position when classifying broad programmes comprising parts of at least THREE of the detailed fields of which none of them is dominating (refer to broad Programmes on page 14 and 15).

0 General Programmes

General refers to basic and personal skills. Programmes with a subject emphasis should be classified under the broad fields of 1 to 8.

010 Basic/broad general programmes
Basic/broad, general programmes
is programmes designed to give basic education in reading, writing and arithmetic along with elementary understanding of other subjects such as history, geography, natural science, social science, art & music and religious instructions. Basic general programmes are normally at pre-school, primary and secondary levels, etc.

Classified under this field are programmes with the following main content:
Basic programmes ....
Broad, general programmes ....
General programmes with no special subject emphasis ....

Inclusion:
Broad, general programmes at upper secondary level with some emphasis

on contents such as humanities, social science and natural science but without neglecting other fields of knowledge are included in this field.

Exclusion:
Programmes that are considered as general in the programme orientation meaning (non vocational) but have a clear emphasis on a subject or a group of subjects, are excluded from this field and are included in one of the fields 1-8, depending on the subject.

080 Literacy and numeracy
Literacy and numeracy is programmes for illiterate adults, designed to teach basic reading, writing and some arithmetic. The age group can be used to distinguish between field *010 Basic/broad, general programmes* with this field.

Classified under this field are programmes with the following main content:
Basic remedial programmes for adults ...
Functional literacy ....
Literacy ....
Numeracy ....
Simple literacy ....

090 Personal skills
Personal skills is programmes for enhancing personal skills, e.g. behavioural capacities, mental skills, personal organisational capacities, life orientation programmes.

Classified under this field are programmes with the following main content:
Argumentation technique ....
Assertiveness ....
Communication skills ....

Co-operation ....
Development of behavioural capacities .
Development of mental skills ....
Development of personal organisational capacities ....
Enhancing personal skills ....
Family life development training ....
Job-seeking programmes ....
Life orientation programmes ....
Personal career planning ....
Personal development ....
Positive thinking ....
Presentation technique ....
Public speaking ....
Self esteem skills ....
Self-confidence ....
Social competence ....
Teamwork ....
Time management ....

| Education

140 Teacher training and education science (broad programmes)
Teacher training and education science (broad programmes) is the study of pedagogical theory combined with the practice of teaching (for example teacher training for pre-school, kindergarten, primary school, vocational, practical, non-vocational subject, adult education, teacher trainers for handicapped children, and general & specialised teacher training programmes) without specialising in basic teaching, special subject teaching, vocational teaching etc.

Classified under this field are programmes with the following main content:

Education technology . . . .
Practical pedagogical courses . . . .
Teacher education . . . .
Teacher training . . . .

141 Teaching and training
Teaching and training is the study of the theories, methods and practice of teaching comprising parts from 143, 144, 145 and 146 fields of education and training, and none of these fields is clearly dominating.

Inclusion:
The study of the theories, methods and practice of teaching without specialising in any of the detailed fields.

142 Education science
Education science is the study of the learning process and the theories, methods and techniques of imparting knowledge to others. For example curriculum development in non-vocational and vocational subjects, educational assessment, testing and measurement, educational research and other education science.

Classified under this field are programmes with the following main content:
Curriculum development (theory) . . . .
Didactics . . . .
Distance education methodology . . . .
Education science . . . .
Educational assessment, testing and measurement . . . .
Educational evaluation and research .
Pedagogical sciences (education) . . . .

Exclusion
Teacher training programmes which combine education science with the practice of teaching are excluded from this field and included in some of the fields for teacher training (143-146).

143 Training for pre-school teachers
Training for pre-school teachers is the study of the theories, methods and practice of teaching children between approximately 3-7 years of age within formal school settings at pre-primary level.

Classified under this field are programmes with the following main content:
Early childhood teaching . . . .
Pre-primary teacher training . . . .

144 Training for teachers at basic levels

Training for teachers at basic levels is the study of the theories, methods and practice of giving children between 5-15 years of age a sound basic education in reading, writing and mathematics along with an elementary understanding of other subjects such as history, geography, social science etc. Subject specialisation should be stressed less than in field *145 Training for teachers with subject specialisation*. The study of teaching children with special needs is included in this field, likewise the study of teaching adults basic reading and writing.

Classified under this field are programmes with the following main content:
Class teacher training . . . .
Elementary teacher education . . . .
Home language teacher training . . . . . .
Primary teaching . . . .
Special education teaching . . . .

Inclusion:
The study of teaching adults basic reading and writing is included in this field.

145 Training for teachers with subject specialisation

Training for teachers with subject specialisation is the study of the theories, methods and practice of teaching a special subject, mostly at secondary or higher levels. Programmes included in this field often comprise study also of the subject/subjects that are going to be taught.

Classified under this field are programmes with the following main content:
Secondary teaching . . . .
Special subject teaching . . . .
Teacher training, theoretical subjects eg. English, Mathematics and History . . . .

Inclusion:
Teacher training programmes with both a vocational and a theoretical subject is included in this field.

Exclusion:
Teaching programmes in vocational, practical and artistic subjects is excluded from this field and included in field *146 Training for teachers of vocational subjects*.

146 Training for teachers of vocational subjects

Training for teachers of vocational subjects is the study of the theories, methods and practice of vocational/practical teaching and training. Training for music teachers, art teachers and other teachers in aesthetic subjects are included, likewise training for teachers in physical training.

Classified under this field are programmes with the following main content:
Driver and safety teacher education . . .
Driving instructor training . . . .
Flight instructor training . . . .
Nursing teacher training . . . .
Physical education teacher training . . . .
Post-school teacher training . . . .
Teacher training in arts and crafts . . . . .
Teacher training in commercial subjects . . . .
Teacher training in music . . . .
Teacher training in nursing . . . .
Teacher training in technical subjects .
Teacher training, physical training . . . . .
Teacher training, vocational subjects . .
Technical teaching . . . .
Training of instructors in companies etc. .
Training of trainers . . . .
Vocational teacher training . . . .

Inclusion:
Training of driving instructors is included in this field. Training of trainers for work is included in this field.

Exclusions:
Training of sport trainers is excluded from this field and included in field *813 Sports*.

Teacher training programmes with both a vocational and a theoretical subject is excluded from this field and included in field *145 Training for teachers with subject specialisation.*

2 Arts and Humanities

210 Arts (broad programmes)
Arts (broad programmes) is the study of arts without specialising in any of the detailed fields.

Classified under this field are programmes with the following main content:
Arts.......................................
Arts and crafts............................

211 Fine arts
Fine arts is the study of visual forms of creative expressions, dealing with theory, history, techniques, performance and production in fine arts.

Classified under this field are programmes with the following main content:

Aesthetics................................
Art history................................
Art studies...............................
Art theory................................
Calligraphy...............................
Drawing (artistic)........................
Etching (artistic)........................
Fine art print making....................
History of art............................
Lithography..............................
Painting (art)............................
Philosophy of art.......................
Sculpture................................
Sketching (art)..........................

Exclusions:
Training in ceramics, pottery etc is excluded from this field and included in field *215 Craft skills.*

Study of architecture is excluded from this field and included in field *581 Architecture and town planning.*

Teacher training in arts is excluded from this field and included in field *146 Training for teachers of vocational subjects.*

212 Music and performing arts
Music and performing arts is the study of the principles and techniques associated with performance involving music, speech, movement, mime, characterisation, improvisation and stage craft.

Classified under this field are programmes with the following main content:

Inclusion:

Study of music and performing arts history and theory is included in this field.

Exclusion:

Teacher training in music and other performing arts is excluded from this field and included in field *146 Training for teachers of vocational subjects.*

213 Audio-visual techniques and media production

Audio-visual techniques and media production is the study of techniques and skills to produce books, newspapers, radio/TV production, film/video production, recorded music production and graphic reproduction. It includes programmes in methods of colour reproduction, photography and computer graphics. Study of combining pictures, words and decorations in the production of books, magazines, posters, adverts etc.

Classified under this field are programmes with the following main content:

Inclusion:

Programmes in desktop publishing and lay-out are included in this field.

Exclusions:

Separate programmes in using specific software applications for desktop publishing are excluded from this field and included in field *482 Computer use.*

Study of journalism (wording and content of messages) is excluded from this field and included in field *321 Journalism and reporting.*

214 Design

Design is the study of creatively combining line, form and fabric in designing and constructing e.g. fashion garments, industrial products and interiors.

Classified under this field are programmes with the following main content:

Exclusions:

Study of Building design is excluded from this field and included in field *581 Architecture and town planning.*

Study of Industrial design is excluded from this field if emphasis is given to technical subjects and not to artistic design, and included in the appropriate field under *52 Engineering and engineering trades.* Publishing design and graphic design

are excluded from this field and included in field *213 Audio-visual techniques and media production*.

215 Craft skills

Craft skills is the study of techniques and skills in a chosen aspect of handicraft, such as jewellery, pottery, weaving, woodcarving etc.

Classified under this field are programmes with the following main content:

Ceramics (craft) ....

Conservation of cultural material ....

Craft programmes ....

Crafts, folk arts and artisanry ....

Decorative metal crafts ....

Embroidery (craft) ....

Fibre, textile and weaving arts ....

Floristry (flower arranging) ....

Glass arts and craft ....

Goldsmithing ....

Handicrafts ....

Jewellery design ....

Jewellery making (craft) ....

Lapidary and jewellery ....

Making of musical instruments (not

industrial) ....

Musical instruments (repairing and

tuning) ....

Needle craft ....

Picture framing ....

Silversmithing ....

Stone carving (craft) ....

Weaving (craft) ....

Woodcarving ....

Exclusion:

Study of industrial production of pottery, woven materials, embroidery etc. is excluded from this field and included in some of the detailed fields under broad field *5 Engineering, manufacturing and construction*.

220 Humanities (broad programmes)

Humanities (broad programmes) is the study of humanities without specialising in any of the detailed fields.

Classified under this field are programmes with the following main content:

Humanities ....

221 Religion

Religion is the study of religious beliefs, concepts, symbols, expressions, texts and spirituality.

Classified under this field are programmes with the following main content:

Religion ....

Religious history ....

Religious studies ....

Study of different religions ....

Study of sacred books ....

Inclusion:

Included in this field are programmes for children and young people, usually given in religious schools or seminars etc, aiming to develop an interest in the tenets of their religion and sufficient familiarity with its philosophy to assist in the propagation of their faith.

Exclusion:

Basic programmes given in religious schools, seminars etc. containing religious instruction but not emphasising it or leading to a religious vocation, are excluded from this field and included in *010 Basic / broad, general programmes*.

222 Languages

Languages is the study of the structure and composition of various languages which include *223 National language* and *224 Other*

languages and none of these fields is clearly dominating. It includes the study of related cultures, literature and linguistics.

223 National language
National language is the study of Bahasa Melayu or Malay language, including the study of related literature and linguistics.

Classified under this field are programmes with the following main content:
Creative writing (Malay language) ….
Interpretation (Malay language) ……
Linguistics (Malay language) ……….
Literature (Malay language) ……….
Sign language (Malay language) ……
Translation (Malay language) ……….

224 Other languages
Other languages is the study of languages such as English, French, German, Spanish, Mandarin, Tamil, Arabic etc. including the study of related literature and linguistics.

Classified under this field are programmes with the following main content:
Creative writing (Other languages) ...

Interpretation (Other languages) …..
Linguistics (Other languages) ……….
Literature (Other languages) ……….
Sign language (Other languages) …..
Translation (Other languages) ……..

Exclusion:
National language is excluded from this field.

225 History and archaeology
History is the study of past events, especially the political, social and economic development of a country, a continent or the world. Study of comparative literature is included in this field, likewise the study of history of science and ideas.

Archaeology is the study of ancient civilisations by scientific analysis of what is found in the ground.

Classified under this field are programmes with the following main content:
Archaeology ………………………..
Comparative literature ……………..
Cultural history ……………………..
History ………………………………..
History and philosophy of science and technology ……………………..
History of science and ideas ……….

Literature history …………………..
Medieval and renaissance studies ….
Museology ………………………….

Exclusions:
Study of History of art is excluded from this field and included in field *211 Fine arts*.

Study of Music and performing arts history is excluded from this field and included in field *212 Music and performing arts.*

Study of Economic history/history of economics is excluded from this field and included in field *314 Economics*.

226 Philosophy and ethics
Philosophy and ethics is the study of philosophy, ethics and related subjects dealing with the conception of life.

Classified under this field are programmes with the following main content:
Ethics ………………………………..
Logic ………………………………..
Morals ………………………………..
Philosophy …………………………..

Exclusions:
Study of religion is excluded from this field and included in field *221 Religion*.

Study of Philosophy of arts is excluded from this field and is included in field *211 Fine arts*.

227 History, philosophy and related subjects
History, philosophy and related subjects is the study of past events, philosophy and related subjects comprising parts from 225 and 226 fields of education and training, and none of these fields is clearly dominating.

3 Social Sciences, Business and Law

310 Social and behavioural science (broad programmes)
Social and behavioural science (broad programmes) is the study of social and behavioural science without specialising in any of the detailed fields.

Classified under this field are programmes with the following main content:
Behavioural sciences.................
Social sciences........................

311 Psychology
Psychology is the study of the human mind and behaviour as a result of individual differences, experience and environment.

Classified under this field are programmes with the following main content:
Conversational therapy...............
Development and child psychology..
Psychoanalysis........................
Psychology.............................
Psychotherapy.........................

312 Sociology and cultural studies
Sociology and cultural studies is the study of human beings and the way they behave in groups and in relation to society. Study of ethnology and social anthropology is included in this field, likewise the study of human and social geography.

Classified under this field are programmes with the following main content:

Criminology............................
Cultural geography....................
Cultural studies.......................
Demography/population studies.....
Ethnology..............................
Futurology.............................
Gender studies........................
Geography (social)....................
Human geography.....................
Regional cultures......................
Social anthropology...................
Social conflict theory.................
Social geography......................
Sociology...............................
Women studies........................

Exclusion:
Social welfare programmes where emphasis is given to practical social work are excluded from this field and included in field *762 Social work and counselling*.

313 Political science and civics

Political science and civics is the study of government and political principles or practice. Subjects dealing with the rights and duties of the citizens are included.

Classified under this field are programmes with the following main content:

Civics ....
Human rights ....
International relations ....
Peace and conflict studies ....
Political history ....
Political science ....
Politics ....

Exclusion:
Study of political economics is excluded from this field and included in the field *314 Economics*.

314 Economics

Economics is the study of economic policy, economic theory and economic decision making.

Classified under this field are programmes with the following main content:

Econometrics ....
Economic history ....
Economics ....

International economics ....
Macro economics ....
National accounts ....
Political economy ....

Exclusion:
Study of economics where emphasis is given to business studies is excluded from this field and classified as *340 Business and administration (broad programmes)*.

321 Journalism and reporting

Journalism and reporting is the study of the theory and practices of journalism/reporting as part of the field of mass communication. Journalism and reporting is about the wording and content of messages. It comprises news reporting, writing commentaries and feature stories of public interest etc.

Classified under this field are programmes with the following main content:

Broadcast journalism ....
Communication ....
Information ....
Journalism ....
Mass communication ....
News reporting ....
Publishing (dissemination of messages) ....

Exclusions:
Study of techniques for mass communication (e.g. printing and radio/TV production) is excluded from this field and included in field *213 Audio-visual techniques and media production*.

Study of lay-out and publishing design is excluded from this field and included in field *213 Audio-visual techniques and media production*.

Study of public relations is excluded from this field and included in field *342 Marketing and advertising*.

322 Library, information, archive

Library, information, archive is the study of the methods of selecting, acquiring, organising and storing collections of information, and facilitating the use of information. Library programmes are included in this field.

Classified under this field are programmes with the following main content:

Archival sciences ....
Documentation ....
Information science ....

Information searching ....
Librarianship training ....
Library programmes ....
Museum documentation ....

340 Business and administration (broad programmes)

Business and administration (broad programmes) is the study of the theory and practice of planning, directing, organising and co-ordinating the resources of private and public organisations and institutions.

Classified under this field are programmes with the following main content:
Business and administration ....
Business economics ....
Business studies ....

Inclusion:
Study of business and administration where emphasis is not given towards any of the detailed fields under *34 Business and administration* is included in this field.

Exclusion:
Business programmes where emphasis is given to any of the detailed fields under *34 Business*

and administration (management, administration, marketing etc) should be classified according to the specialisation.

341 Wholesale and retail sales

Wholesale and retail sales is the study of buying and selling goods and services, including stock management, pricing practice, loss prevention, sale systems and procedures. It includes the study of the workings and current trends of the wholesale and retail industries. Selling of buildings and properties is also included.

Classified under this field are programmes with the following main content:
Auctioneering ....
Buying and selling ....
Consumer services ....
Dairy retailing ....
Demonstration techniques ....
Property sales ....
Purchasing ....
Purchasing, procurement and contracts ....
Real-estate business ....
Retailing ....
Sales representatives ....
Stock-keeping ....

Telephone selling ....
Ware-housing ....
Wholesaling ....

Inclusion:
Study of buying and selling buildings and properties is included in this field.

342 Marketing and advertising

Marketing and advertising is the study of exchange processes of goods and services between organisations and/or individuals, and the study of consumer behaviour and requirements. It includes the study of the role of product development, pricing, distribution, promotion and sales in order to maximise business performance.

Classified under this field are programmes with the following main content:
Advertising ....
Market research ....
Marketing ....
Merchandising ....
Public relations ....
Sales and marketing ....

343 Finance, banking, insurance

Finance, banking, insurance is

the study of planning, directing, organising and controlling financial activities and services. It includes the control and monitoring of the financial resources of organisations, institutions and individuals, and the provision of financial services at the corporate and individual levels.

Classified under this field are programmes with the following main content:

Bank teller programmes...............
Banking and finance...................
Business finance........................
Finance theory..........................
Finance, banking, insurance..........
Financial management.................
Insurance................................
Investment analysis....................
Investments and securities............
Pension insurance......................
Social insurance........................
Stock-broking...........................

Exclusion:
Study of actuarial science is excluded from this field and included in field *462 Statistics*.

344 Accounting and taxation
Accounting and taxation is the study of maintaining, auditing and

recording financial transactions. Classified under this field are programmes with the following main content:
Accounting..............................
Auditing..................................
Bookkeeping............................
Tax accounting..........................

345 Management and administration
Management and administration is the study of planning, directing and operating the functions and activities of organisations and institutions. Programmes in management covering administration, economics, finance etc. are included in this field if emphasis is given to management and administration.

Classified under this field are programmes with the following main content:
Administration..........................
Business administration................
Educational management..............
Employment management............
Enterprise training.....................
Human resources management......
Local public administration...........
Logistic management...................
Management of education............

Management science...................
Management skills......................
Office management....................
Organisational theory and behaviour..................................
Performance appraisal.................
Personnel administration.............
Personnel management................
Public administration...................
Public and institution management..
Quality management...................
Recruitment.............................
Start your own business-courses.....
Training management..................

Inclusion:
Study of leadership in the context of management is included in this field.

Exclusions:
Training of leadership in the context of personal development is excluded from this field and included in field *090 Personal skills*.

Study of administration in the meaning of office work is excluded from this field and included in field *346 Secretarial and office work*.

346 Secretarial and office work
Secretarial and office work is the study of administrative procedures and practices, office technology and clerical, shorthand and keyboard skills. Specialised secretarial programmes (bilingual, medical, law, accounting etc) are included if the programme has secretarial work as its objective, rather than work as specialised assistants.

Classified under this field are programmes with the following main content:
Administrative and secretarial services....
Business correspondence...................
Clerical programmes........................
Court reporting..............................
Data entry....................................
Foreign language secretary programmes..
Information processing/data entry........
Keyboard skills...............................
Legal secretary programmes...............
Management support services.............
Medical secretary programmes............
Office automation...........................
Operation of office machines..............
Receptionist training........................
Secretarial programmes....................
Shorthand....................................
Stenography..................................
Switchboard operating......................
Typing...

Inclusion:
Broad secretarial programmes comprising among other thing computer courses are included in this field.

Exclusions:
Separate programmes in using specific computer software are excluded from this field and included in *482 Computer use*.

Office management is excluded from this group and included in field *345 Management and administration*.

Hotel receptionist programmes are excluded from this field and included in field *811 Hotel, restaurant and catering*.

347 Working life
Working life is the study of the structure and function of working life. It comprises programmes, mainly given as staff training, related to the working place and to assignments.

Classified under this field are programmes with the following main content:

Clients' needs ....
Company knowledge ....
Industrial relations ....
Introductory courses at work ....
Organisation at work ....
Quality assurance ....
Trade union courses (general) ....
Work development ....
Working life ....

Inclusion:
Staff training related to the working place or the assignments is included in this field if it is not possible to be classified into any other fields.

Exclusions:
Training related to the working place or the assignments is excluded from this field if it has more to do with personal development than work development and is included in field *090 Personal skills*.

Staff training which can be classified in any other field is excluded from this field and included in the appropriate field. E.g. quality courses should, if technical, be included in the fields under *52 Engineering and engineering trades*.
Programmes in work environment should be included in field *862 Occupational health and safet*y.

Programmes, mostly at tertiary level, dealing with working life in general in terms of the labour market, the social partners, industrial psychology etc. are excluded in this field and included in the fields under *31 Social and behavioural science.*

380 Law
Law is the study of the principles and procedures for formally maintaining social order, including training for legal professions such as advocate or training for the judicial bench.

Classified under this field are programmes with the following main content:
Commercial law ....
Criminal justice studies ....
History of law ....
Jurisprudence ....
Labour law ....
Law ....
Legal practice ....
Legal studies ....
Notary/Notary's practice ....
Para-legal studies ....

381 Syariah Law*
Syariah Law is the study of comprehensive body of Islamic laws

that should regulate the public and private aspects of the lives of the Muslims. The code of law derived from the Quran and from the teachings and example of Prophet Muhammad'.
*Wikipedia, *The Free Encyclopedia* and *AudioEnglish.net dictionary* 2009.

4 Science, Mathematics and Computing

421 Biology and biochemistry
Biology and biochemistry is the study of the structure, function, reproduction, growth, evolution and behaviour of all living organisms. It comprises the study of biological and related sciences, and includes the study of the chemistry of living organisms.

Classified under this field are programmes with the following main content:
Biochemistry..............................
Biology..................................
Biometrics...............................
Biophysics...............................
Botany...................................
Entomology...............................
Genetics.................................
Life sciences............................

Limnology................................
Microbiology.............................
Molecular biology........................
Ornithology..............................
Parasitology.............................
Pharmacology.............................
Toxicology...............................
Virology.................................
Zoology..................................

Inclusion:
Study of chemical processes in living organisms (biochemistry, toxicology, pharmacology etc.) is included in this field.

Exclusion:
Study of environmental science, which is study of the relation between living organisms and the environment, is excluded from

this field and included in field *422 Environmental science.*

422 Environmental science
Environmental science is the study of organisms in relation to one another and to the environment.

Classified under this field are programmes with the following main content:
Ecology..................................
Environmental science....................

Exclusion:
Study of biology and toxicology is excluded from this field and included in field *421 Life science.*

440 Physical science (broad programmes)

Physical science (broad programmes) is the study of physical science without specialising in any of the detailed fields.

Classified under this field are programmes with the following main content:

Physical programmes...................

441 Physics

Physics is the study of properties and interactions of matter and energy. It includes the study of astronomy and space science.

Classified under this field are programmes with the following main content:

Acoustics.................................
Astronomy...............................
Astrophysics.............................
Nuclear physics..........................
Optics...................................
Physics..................................
Planetary sciences.......................
Space science............................

Exclusion:
Opticians' practice is excluded from this field and included in field *725*

Medical diagnostic and treatment technology.

442 Chemistry

Chemistry is the study of substances and their elements and how they react when combined.

Classified under this field are programmes with the following main content:

Analytical chemistry.....................
Chemistry................................
Organic chemistry........................
Petrology................................
Polymer chemistry........................

Exclusion:
Biochemistry is excluded from this field and included in field *421 Life science.*

443 Earth science

Earth science is the study of the composition and structure of earth including the hydrosphere and the atmosphere.

Classified under this field are programmes with the following main content:

Atmospheric sciences....................
Earth science............................

Geodesy..................................
Geography (nature).......................
Geography (physical).....................
Geology..................................
Geophysics...............................
Geoscience...............................
Hydrogeology.............................
Hydrology................................
Marine science...........................
Meteorology..............................
Mineralogy...............................
Ocean life sciences......................
Oceanography.............................
Palaeontology............................
Seismology...............................
Vulcanology..............................

Exclusion:
Social geography is excluded from this field and included in field *312 Sociology and cultural studies.*

461 Mathematics

Mathematics is the study of abstract deductive systems. It includes algebra, arithmetic, geometry, real and complex analysis and applied mathematics.

Classified under this field are programmes with the following main content:

Algebra..................................

Applied mathematics..................

Data analysis (mathematics)...........

Geometry................................

Mathematics.............................

Numerical analysis......................

Operations research....................

462 Statistics

Statistics is the study of collecting, describing, arranging and analysing numerical data. Study of probability theory and actuarial science is included.

Classified under this field are programmes with the following main content:

Actuarial science.......................

Mathematical (theoretical) statistics.

Probability theory......................

Statistics, applied......................

Survey design..........................

Survey sampling........................

Inclusions:

Study of applied statistics is included in this field.

Study of mathematical (theoretical) statistics is included in this field.

Exclusion:

Study of demography/population studies is excluded from this field

and included in field *312 Sociology and cultural studies.*

481 Computer science

Computer science is the study of the design and development of computer systems and computing environments. It includes the study of the design, maintenance and integration of software applications.

Classified under this field are programmes with the following main content:

Computer programming..............

Computer science......................

Computer system analysis............

Computer system design.............

Informatics (computer science)......

Network administration...............

Operating systems.....................

Programming (computer).............

Programming languages (visual basic, C++ etc.)........................

Software localisation..................

Software testing.......................

Exclusions:

Computer engineering (hardware) is excluded from this field and included in field *523 Electronics and automation.*

Programmes in using computer applications are excluded from this field and included in field *482 Computer use.*

482 Computer use

Computer use is the study of using computers and computer software and applications for different purposes. These programmes are generally of short duration.

Classified under this field are programmes with the following main content:

Computer software use...............

Computer use..........................

Internet use programmes.............

Software for calculating (spreadsheets)..........................

Software for data processing.........

Software for desktop publishing......

Software for word processing........

5 Engineering, Manufacturing and Construction

520 Engineering and engineering trades (broad programmes)
Engineering and engineering trades (broad programmes) is the study of engineering and engineering trades without specialising in any of the detailed fields.

Classified under this field are programmes with the following main content:
Engineering . . . .
Engineering industry programmes . . . .
Maintenance engineering . . . .
Quality control (technical) . . . .

521 Mechanics and metal work
Mechanics and metal work is the study of planning, designing, developing, producing, maintaining

and monitoring machines, mechanical plants and systems and metal products. It includes designing and maintaining machines which produce goods and services. The focus of programmes in this field is machines, mechanical systems and metal products.

Classified under this field are programmes with the following main content:
Bicycle production . . . .
Bicycle repair . . . .
Boiler making and welding . . . .
Gunsmithing . . . .
Hydraulics . . . .
Locksmithing and safe repairing . . . . . .
Mechanical engineering . . . .
Mechanical trades programmes . . . . . .
Metal casting and patternmaking . . . .

Metal fitting, turning and machining .
Metal trades programmes . . . .
Metallurgical engineering . . . .
Metallurgical technology . . . .
Micromechanics . . . .
Precision mechanics . . . .
Sheetmetal working . . . .
Steel production . . . .
Tool and die making . . . .
Watchmaking . . . .
Welding . . . .

Exclusion:
Study of motor vehicle mechanics and engineering is excluded from this field and included in field *525 Motor vehicles, ships and aircraft.*

522 Electricity and energy
Electricity is the study of installing, maintaining, repairing and

diagnosing faults in electrical wiring and related equipment in domestic, commercial and industrial establishments. Installation and maintenance of overhead and underground electrical power distribution networks is included.

Energy is the study of energy generation.

Classified under this field are programmes with the following main content:

Air-conditioning programmes ....
Climate engineering ....
Electrical appliances repairing ....
Electrical engineering ....
Electrical fitting ....
Electrical power generation ....
Electrical trades programmes ....
Energy programmes ....
Energy studies ....
Gas distribution ....
Heating trades programmes ....
Nuclear, hydraulic and thermal
energy ....
Power production ....
Powerline installation and
maintenance ....
Refrigeration programmes ....
Solar energy ....

Inclusion:
The study of installing, diagnosing faults in and repairing heating, air-conditioning and refrigeration equipment is included in this field.

Exclusion:
Study of vehicle electricity is excluded from this field and included in field *525 Motor vehicles, ships and aircraft.*

523 Electronics and automation

Electronics and automation is the study of planning, designing, developing, maintaining and monitoring electronic equipment, machinery and systems. It includes designing computers and equipment for communication.

Classified under this field are programmes with the following main content:

Automation ....
Broadcasting electronics ....
Communication systems ....
Communications equipment
installation ....
Communications equipment
maintenance ....
Computer repairing ....
Computer engineering ....

Control engineering ....
Data processing technology ....
Digital technology ....
Electronic data processing ....
Electronic engineering ....
Electronic equipment servicing ....
Network technology ....
Robotics ....
Telecommunication technology ......
Television and radio repairing ....

Exclusion:
Computer science (design of computer systems and software applications) is excluded from this field and included in *481 Computer science.*

524 Chemical and process

Chemical and process is the study of planning, designing, and developing products and processes where chemical and physical changes occur. It includes designing chemical plants and control systems.

Classified under this field are programmes with the following main content:

Biochemical technologies ....
Biotechnology engineering ....
Chemical engineering ....
Chemical process engineering ....

Laboratory assistant programmes ....
Laboratory technician programmes ..
Laboratory technology ....
Oil refining ....
Oil/gas/petrochemicals processing ..
Plant and machine operation
(processing)..............................
Process technology ....

Inclusion:

Programmes in laboratory
technology are included in this field
if emphasis is not given to a specific
application.

Exclusions:

Laboratory technology programmes
are excluded from this field if
emphasis is given to a specific
application (biological, medical, etc.)
and are included under appropriate
field (*725 Medical diagnostic and
treatment technology* etc).

Programmes with emphasis on
production of a specific material
are excluded from this field; e.g.
programmes with emphasis on paper
processing should be included in
field *543 Materials (wood, paper,
plastic, glass).*

525 Motor vehicles, ships and aircraft

Motor vehicles, ships and aircraft is
the study of designing, developing,
producing, maintaining, diagnosing
faults in, repairing and servicing
motor vehicles, including earth
moving equipment and agriculture
machines. Typical is the combining
of studies in both metal structures
and motors.

Classified under this field are
programmes with the following main
content:

Aeronautical engineering ....
Aerospace engineering ....
Agriculture machinery mechanics ....
Air-craft engineering ....
Air-craft maintenance ....
Automotive electricity ....
Automotive engineering ....
Coachwork ....
Helicopter construction ....
Marine construction ....
Maritime engineering ....
Motorbike mechanics ....
Motorcycle engineering ....
Naval engineering ....
Panel beating ....
Shipbuilding ....
Varnish/spray ....
Vehicle and motor engineering ....

Vehicle building ....
Vehicle diagnostics ....
Vehicle electricity ....
Vehicle mechanics ....
Vehicle painting ....
Vehicle repairing ....
Vehicle trimming ....

Inclusion:

Study of vehicle electricity is
included in this field.

Exclusion:

Study of producing and repairing
non-motor vehicles is excluded
from this field and included in *521
Mechanics and metal work* (e.g.
bicycles) or *543 Materials (wood,
paper, plastic, glass)* (e.g. boats and
non-motor).

526 Civil Engineering

Civil engineering is the study of
planning, designing, testing and
directing the construction of large
scale buildings and structures,
including systems for transport,
water supply, sewage etc.

Classified under this field are
programmes with the following main
content:
Bridge construction ....

Building construction ....
Building engineering ....
Civil engineering ....
Constructing plant operation ....
Construction technology ....
Constructional engineering ....
Dock and harbour engineering ....
Excavation engineering ....
Irrigation and drainage (construction)...
Quantity surveying ....
Road building ....
Scaffolding work ....
Structural engineering ....
Technical drawings (civil engineering)...
Water supply and sewerage engineering
Water technology and engineering ......

Inclusion:

Included in this field is the study of
technical drawings related to civil
engineering.

Exclusions:

Installation of electricity is excluded
from this field and included in field *522
Electricity and energy*.

Similarly, installing and repairing
of heating, air-conditioning and
refrigeration equipment is excluded
from this field and included in field *522
Electricity and energy*.

527 Material Engineering*

Material Engineering is the study on
the development of new materials for
industrial and user applications.
Wikipedia, The Free Encyclopedia,
November 2009

540 Manufacturing and processing (broad programmes)

**Manufacturing and processing
(broad programmes)** is the study of
manufacturing and processing without
specialising in any of the detailed fields.

Classified under this field are programmes
with the following main content:
Manufacturing and processing ....

541 Food processing

Food processing is the study of processing
and packaging of food and beverages,
and the equipment and procedures used
in the production and distribution of
foods.

Classified under this field are
programmes with the following main
content:
Baking ....
Beer brewing ....
Brewing.....................................
Butchering ....

Cheese production ....
Confectionery ....
Dairy foods (industrial)...................
Dairy science ....
Distilling...................................
Food and drink processing ....
Food handling/hygiene...................
Food preparation ....
Food preservation ....
Food processing industry ....
Food programmes ....
Food science...............................
Food science and technology ....
Food technique............................
Industrial bakery/flour production ......
Meat processing...........................
Pastry cooking.............................
Tobacco processing........................
Wine production ....
Wine science ....
Wine storing/maturing....................

Inclusions:

Study of food handling and food hygiene
is included in this field.

Study of tobacco processing is included
in this field.

Exclusions:

Restaurant and catering programmes are
excluded from this group and included
in field *811 Hotel, restaurant and
catering*.

Nutritional science is excluded from this field and included in field *726 Therapy and rehabilitation.*

542 Textiles, clothes, footwear and leather

Textiles, clothes, footwear and leather is the study of the manufacture of textiles, textile and leather products, clothing and related items, shoes and other forms of footwear.

Classified under this field are programmes with the following main content:

Clothing industry.........................
Clothing trades programmes..........
Clothing, apparel and textile working...................................
Custom tailoring.........................
Cutting and tailoring....................
Dressmaking.............................
Embroidery and needlework (industrial)...............................
Footwear making........................
Fur making...............................
Furrier.....................................
Garment production.....................
Knitting (industrial).....................
Leather goods making..................
Leather goods production.............
Leather processing......................

Leather trades programmes............
Pelt work..................................
Saddlery...................................
Sewing (industrial)......................
Shoe production.........................
Shoe, boot and leather repairing......
Shoemaking..............................
Skins and leather production..........
Soft furnishings..........................
Spinning...................................
Tailoring...................................
Textile technique.........................
Textile trades programmes.............
Textiles, clothing and footwear........
Upholstery................................
Weaving (industrial).....................
Wool science.............................

Exclusion:
Handicraft programmes (weaving, embroidery etc.) are excluded from this field and included in field *215 Craft skills.*

543 Materials (wood, paper, plastic, glass)

Materials is the study of the manufacturing of products in wood, paper, plastic, glass or other materials like stone, clay, artificial materials etc. Programmes included in this field have more to do with a specific material than general technical knowledge.

Classified under this field are programmes with the following main content:

Boat building (non-motor)...............
Cabinet making...........................
Cane willow and bamboo work.........
Carpentry (non-building).................
Ceramics (industrial).....................
Furniture crafts...........................
Furniture making.........................
Glass production..........................
Glass working (industrial)...............
Industrial diamond production..........
Paper manufacturing and processing...
Plastic manufacturing....................
Rubber processing........................
Stone cutting..............................
Synthetic fibre manufacturing...........
Timber technology........................
Wood machining and turning...........
Wood technology.........................
Woodwork trades programmes.........
Woodworking and carpentry............

Exclusions:
Study of metal work is excluded from this field and included in field 521 Mechanics and metal work.

Study of building carpentry and joinery is excluded from this field and included in field 582 Building and civil engineering.

Study of chemical processing in general is excluded from this field and included in field *524 Chemical and process.*

Study of printing and bookbinding is excluded from this field and included in field *213 Audio-visual techniques and media production.*

Handicraft programmes (glass arts and crafts, woodcarving etc) are excluded from this field and included in field *215 Craft skills.*

544 Mining and extraction

Mining and extraction is the study of planning, developing, assessing and directing the extraction of minerals, oil and gas from the earth.

Classified under this field are programmes with the following main content:

Coal mining...............................
Mineral technology.......................
Mining engineering.......................
Mining technology........................
Oil and gas extraction...................
Quarry supervision.......................
Raw material extraction.................

Exclusions:
Study of metallurgical engineering is excluded from this field and included in *521 Mechanics and metal work*.

Study of geology is excluded from this field and included in field *443 Earth science*.

545 Applied science*
Applied science is the application of knowledge from one or more natural scientific fields to solve practical problems. Fields of engineering are closely related to applied sciences. Applied science is important for technology development. Its use in industrial settings is usually referred to as research and development (R&D)'. *Wikipedia, The Free Encyclopedia*, November 2009

Classified under this field are programmes with the following main content:
Applied chemistry ....
Applied physics ....
Bio-composite technology ....
Biomolecular science ....
Biotechnology ....
Chemistry (forensic analysis) ....
Environmental technology ....

Furniture technology ....
Industrial chemistry ....
Industrial physics ....
Marine technology ....
Materials technology ....
Plantation technology and management ....
Polymer technology ....
Textile technology ....

581 Architecture and town planning
Architecture is the study of the art, science and techniques of building design. It encompasses both utilitarian ends - such as the soundness of the structure and the functional and economic efficiency of the building - and aesthetic considerations.

Town planning is the study of the regulated growth and improvement of towns in both functional and aesthetical points of view.

Classified under this field are programmes with the following main content:
Architectural urban design and planning ....
Architecture ....
Building design ....
Cartography/land surveying ....

City planning ....
Community development ....
Community planning ....
Landscape architecture ....
Rural development ....
Structural architecture ....
Surveying ....
Topography ....
Town and country planning ....
Town and regional planning ....
Town planning ....
Urban planning ....
Urban studies ....

Inclusion:
Study of cartography and surveying is included in this field.

Exclusions:
Study of interior design is excluded from this field and included in field *214 Design*.

The laying out and construction of parks and gardens is excluded from this field and included in field *622 Horticulture*.

582 Building
Building is the study of the science, technology and techniques of assembling, erecting and maintaining public, commercial, industrial and residential structures and their fittings.

Classified under this field are programmes with the following main content:
Bricklaying ....
Brickwork and masonry ....
Building maintenance ....
Building renovation ....
Building technology ....
Carpentry and joinery (building) ....
Cement working ....
Constructional metalwork (building) ..
Demolition ....
Floor and wall tiling ....
Floor covering ....
Glazing ....
Insulation ....
Joining and carpentry ....
Mason and tile setting ....
Masonry ....
Painting and wall covering ....
Pipe fitting ....
Plastering (building) ....
Plumbing ....
Roof fixing ....
Sanitation (building) ....
Stonemasonry ....
Technical drawings (building) ....
Ventilation (building) ....

6 Agriculture and Veterinary

620 Agriculture, forestry and fishery (broad programmes)

Agriculture, forestry and fishery (broad programmes) is the study of agriculture, forestry and fishery without specialising in any of the detailed fields.

Classified under this field are programmes with the following main content:
Agriculture, forestry and fishery . . . . . .

621 Crop and livestock production

Crop and livestock production (agriculture) is the study of growing, maintaining and harvesting crops & pastures, and grazing & managing animals. It includes the study of managing and maintaining farms and

producing unprocessed plant and animal products.

Classified under this field are programmes with the following main content:
Agricultural business/agribusiness operations . . . .
Agricultural economics . . . .
Agricultural sciences . . . .
Agriculture . . . .
Agronomy and crop science . . . .
Animal breeding . . . .
Animal husbandry . . . .
Animal training . . . .
Basic skills in agriculture . . . .
Crop husbandry . . . .
Dog breeding . . . .
Farm and ranch management . . . .
Farm maintenance . . . .
Farming . . . .

Fruit growing . . . .
Fruit production . . . .
Goose keeping . . . .
Grain growing . . . .
Horse breeding . . . .
Horse husbandry . . . .
Irrigation techniques . . . .
Orchards construction . . . .
Pig farming . . . .
Poultry husbandry . . . .
Race horse care . . . .
Rye and wheat growing . . . .
Sheep farming . . . .
Soil and water technician programmes . . . .
Soil fertility . . . .
Soil science . . . .
Vegetable plantation . . . .
Vineyard construction . . . .
Viticulture . . . .
Wine growing . . . .

Inclusion:
Study of soil science, soil fertility and irrigation techniques is included in this field. Study of growing intensively managed crops such as fruit and vegetables is included in this field.

Exclusions:
Study of wine production is excluded from this field and is included in field *541 Food processing.*

Jockeying is excluded from this field and is included in field *813 Sports*

622 Horticulture

Horticulture (gardening) is the study of horticultural technology and management, floriculture, greenhouse methods, nursery management, landscape gardening etc.

Classified under this field are programmes with the following main content:

Floriculture . . . .
Gardening . . . .
Greenhouse operations . . . .
Greenkeeping . . . .
Horticultural technique . . . .
Horticulture . . . .
Landscape gardening . . . .
Maintaining sports turf . . . .
Nursery management (horticulture) . . .
Production of ornamental plants . . . . . .
Sports grounds maintenance . . . .
Turf cultivation . . . .
Turf management . . . .

Inclusion:s:
The laying out and construction of urban and domestic parks and gardens is included in this field.

Gardening programmes combining floriculture and growing vegetables are included in this field.

Exclusions:
Study of growing crops (plants such as paddy, fruit, vegetables etc, is excluded from this field and included in field *621 Crop and livestock production.*
Study of soil science, soil fertility and irrigation techniques is excluded from

this field and included in field *621 Crop and livestock production.*

Study of National park management is excluded from this field and included in field *853 Natural environments and wildlife.*

Study of Landscape architecture is excluded from this field and included in field *581 Architecture and town planning.*

623 Forestry
Forestry is the study of establishing, cultivating, harvesting and managing forests. It includes study of hunting and trapping.

Classified under this field are programmes with the following main content:

Forest keeping . . . .
Forest product techniques . . . .
Forest ranging . . . .
Forestry . . . .
Hunting and trapping . . . .

Exclusions:
Study of National park management is excluded from this field and included in field *852 Natural environments and wildlife.*

Timber technology (sawmill production etc) is excluded from this field and included in field *543 Materials (wood, paper, plastic, glass).*

624 Fisheries
Fisheries is the study of breeding, rearing and harvesting fish and other seafood.

Classified under this field are programmes with the following main content:

Deep sea fishing . . . .
Fish breeding . . . .
Fish farms . . . .
Fish husbandry . . . .
Fishery . . . .
Fishery science and technology . . . .
Mariculture . . . .
Shellfish breeding . . . .

Inclusion:
Programmes for operating fishing boats are included in this field.

Exclusion:
Study of industrial processing of fish is excluded from this group and included in field *541 Food processing.*

640 Veterinary
Veterinary is the study of preventing, diagnosing and treating diseases and injuries in animals, and their general care. The study of caring for sick, injured and infirm animals undergoing treatment in veterinary clinics is included.

Classified under this field are programmes with the following main content:

Animal health care . . . .
Animal reproduction (science) . . . .
Veterinary assisting . . . .
Veterinary medicine . . . .
Veterinary science . . . .

Inclusion:
The science of animal reproduction is included in this field.

Exclusion:
Study of animal breeding is excluded from this field and included in field *621 Crop and livestock production.*

7 Health and Welfare

720 Health (broad programmes)
Health (broad programmes) is the study of health without specialising in any of the detailed fields.

Classified under this field are programmes with the following main content:
Health....................................
Public health programmes.............

721 Medicine
Medicine is the study of the principles and procedures used in preventing, diagnosing, caring for and treating illness, disease and injury in humans and the maintenance of general health. Principally, this field consists of training of physicians/doctors.

Classified under this field are programmes with the following main content:
Anaesthesiology.........................
Anatomy..................................
Audiology/hearing sciences...........
Bacteriology.............................
Cardiology...............................
Cytology..................................
Dermatology.............................
Epidemiology............................
Forensic medicine.......................
General medicine........................
Gerontology.............................
Gynaecology............................
Haematology............................
Histology.................................
Homeopathic medicine................
Immunology.............................
Internal medicine.......................
Medical science.........................

Medical training........................
Medicine.................................
Naturopathic medicine................
Neurology................................
Obstetrics and gynaecology...........
Oncology................................
Ophthalmic..............................
Ophthalmology.........................
Paediatrics...............................
Pathology................................
Physiology...............................
Plastic surgery..........................
Preventive and social medicine.......
Psychiatry................................
Stomatology.............................
Surgery...................................
Training of doctors......................
Training of physicians..................

722 Medical Services

Medical Services comprises the study of *725 Medical diagnostic and treatment technology, 726 Therapy and rehabilitation* and *727 Pharmacy* fields of education and training, and none of these fields is clearly dominating.

723 Nursing and caring

Nursing and caring is the study of providing health care for the sick, disabled or infirm and assisting physicians and other medical and health professionals diagnose and treat patients. The focus of qualifications in nursing is maintaining and caring for the health during illness and rehabilitation. It includes care of old people and care of the disabled.

Classified under this field are programmes with the following main content:

Assistant nursing........................
Basic nursing............................
Care of old people.....................
Care of the disabled...................
Community nursing....................
Elder care................................
Gerontological services...............
Health care programmes..............

Hygiene, medical.......................
Infant hygiene (nursing)...............
Midwifery................................
Mothercraft nursing....................
Nursing...................................
Nursing aide/orderly...................
Psychiatric nursing.....................

Inclusion:
Caring programmes comprising both health care and social care e.g. for old people, are included in this field.

Exclusions:
Veterinary nursing is excluded from this field and is included in field *640 Veterinary*.

Dental nursing is excluded from this field and is included in field *724 Dental studies*.

Care of children (if not health care) is excluded from this field and included in field *761 Child care and youth services*.

724 Dental studies

Dental studies is the study of diagnosing, treating and preventing diseases and abnormalities of the teeth and gums. It includes the study of designing, making and repairing dental prostheses and orthodontic appliances. It also includes the study of providing assistance to dentists.

Classified under this field are programmes with the following main content:

Clinical dentistry.......................
Dental assisting........................
Dental hygiene.........................
Dental laboratory technology........
Dental nursing..........................
Dental science..........................
Dental surgery..........................
Dental technology......................
Dentistry.................................
Odontology..............................
Orthodontics............................

Inclusion:
Study of dental hygiene and public dental health is included in this field.

725 Medical diagnostic and treatment technology

Medical diagnostic and treatment technology is the study of a wide range of technologies used for diagnosing and treating diseases and handicaps.

Classified under this field are programmes with the following main content:

Ambulance service.....................
Ambulance technology.................
Auditory prosthetics....................
Emergency para-medical technology..
Forensic medicine technology.........
Hearing aid technology.................
Medical laboratory technology........
Medical technology.....................
Nuclear medicine technology..........
Optical lens making.....................
Optical prosthetics/lenses.............
Optical technology......................
Orthopaedic prosthetics...............
Prosthetic technology...................
Radiography..............................
Radiology technology...................
Radiotherapy.............................
X-ray technology (medical).............

Inclusion:
Medical laboratory technology is included in this field.

Exclusions:
Study of laboratory technology is excluded from this field if emphasis is not given to medical laboratory technology.

General laboratory technology is included in field *524 Chemical and process*. Laboratory technology where emphasis is given to other specific

applications (biology, physics, chemistry etc) is included in the appropriate field *(421 Biology* and *biochemistry, 441 Physics, 442 Chemistry* etc).

Study of dental technology is excluded from this field and included in field *724 Dental studies.*

726 Therapy and rehabilitation

Therapy and rehabilitation is the study of restoring normal physical conditions to those incapacitated by temporary or permanent disability.

Classified under this field are programmes with the following main content:

Chiropractic..............................
Dietetics...................................
Dietician programmes.................
Massage (medical)......................
Mental health services................
Nutrition and dietetics................
Nutrition...................................
Occupational therapy.................
Optometry.................................
Osteopathy................................
Physiotherapy............................
Reflexology...............................
Rehabilitation............................
Speech pathology and therapy.......

Vocational rehabilitation..............

Inclusion:

Study of vocational rehabilitation and occupational therapy is included in this field.

Exclusions:

Study of psychotherapy is excluded from this field and included in field *311 Psychology.*

Study of nutrition science is excluded from this field and included in field *421 Biology and biochemistry.*

727 Pharmacy

Pharmacy is the study of drugs and their effects on humans. It includes their preparation, dispensing and administration.

Classified under this field are programmes with the following main content:

Dispensing pharmacy...................
Pharmacy..................................

Exclusion:

Study of pharmacology is excluded from this field and included in field *421 Biology and biochemistry.*

761 Child care and youth services

Child care and youth services is the study of the development and care of children and youths. It includes study of recreation and leisure activities as a social service for school children.

Classified under this field are programmes with the following main content:

Child care................................
Children recreation programmes.....
Youth recreation programmes........
Youth services............................
Youth worker programmes............

Exclusions:

Study of early childhood education is excluded from this field and included in field *143 Pre-primary teaching.*

Study of health care of children is excluded from this field and included in field *723 Nursing and caring.*

762 Social work and counselling

Social work and counselling is the study of the welfare needs of communities, specific groups and individuals and the appropriate ways of meeting these needs. The focus is on social welfare with emphasis on

social policy and practice. Classified under this field are programmes with the following main content:

Alcohol and drug abuse counselling.....
Alcohol, tobacco, drugs (knowledge about).......................................
Career advising...........................
Counselling................................
Crisis support.............................
Family and marriage counselling.........
Maltreatment (knowledge about).......
Mobbing (knowledge about).............
Social care.................................
Social policy...............................
Social practice............................
Social theory (applied)..................
Social work (welfare)....................
Vocational counselling...................
Vocational guidance......................

Inclusion:

Study of vocational guidance is included in this field.

Exclusions:

Study of sociology and social science is excluded from this field and included in field *312 Sociology and cultural studies.*

Caring programmes combining health care and social care, e.g. for old people, are excluded from this field and included in field *723 Nursing and caring.*

8 Services

810 Personal services (broad programmes)
Personal services (broad programmes) is the broad study of personal service without specialising in any of the detailed fields. The field consists ,to a large extent, programmes at secondary level.

Classified under this field are programmes with the following main content:
Personal services . . . .

811 Hotel, restaurant and catering
Hotel, restaurant and catering is the study of providing food, beverages, accommodation and related services at hotels, restaurants etc.

Classified under this field are programmes with the following main content:
Bar service . . . .
Bartending/mixology . . . .
Catering . . . .
Cooking (restaurant and hotel-type) . . . .
Culinary arts . . . .
Food and hospitality services . . . .
Food serving . . . .
Hospitality services . . . .
Hotel and restaurant programmes . . . .
Hotel receptionist training . . . .
Hotel services . . . .
Hotel/motel and restaurant services . . . . .
Waiting and bar service . . . .

Exclusions:
Study of food processing (industrial) is excluded from this field and included in field *541 Food processing*.

Receptionist training (general) is excluded from this field and included in field *346 Secretarial and office work*.

812 Travel, tourism and leisure
Travel, tourism is the study of marketing and advertising tourist destinations and events. It includes the study of ticketing and reservation practices.

Leisure is the study of recreational and leisure activities for individuals and groups.

Classified under this field are programmes with the following main content:
Ground crew training (airport) . . . .
Guiding, tour leading . . . .
Leisure and tourism . . . .

Recreation and leisure..................
Recreation management...............
Tourism.................................
Tourist trades programmes............
Travel agency services.................
Travel and tourism.....................
Travel services.........................

Exclusion:
Study of recreation and leisure
activities for school children
is excluded from this field and
included in field *761 Child care and
youth services.*

813 Sports
Sports is the study of techniques and
skills in a chosen sport.

Classified under this field are
programmes with the following main
content:
Bookmaking (horses etc)...............
Diving (sport)...........................
Football playing........................
Gymnastics.............................
Jockeying................................
Physical training (sports)..............
Sport leadership........................
Sport trainer training...................
Sports..................................
Sports coaching........................
Sports instructor training..............

Umpire and other sports official
training.................................

Inclusion:
Jockeying is included in this field.

Exclusion:
Training of school teachers in
physical education (sports teachers)
is excluded from this field and
included in field *146 Training for
teachers of vocational subjects.*

814 Domestic services
Domestic services is the study of
various domestic services, such as
housekeeping, cleaning, laundering,
sewing etc.

Classified under this field are
programmes with the following main
content:
Caretaking, housekeeping,
homeservice............................
Chimney sweeping.....................
Cleaning................................
Consumer economics..................
Cooking (home)........................
Domestic science......................
Dry-cleaning...........................
Funeral services and mortuary
science.................................
Home economics.......................

Laundry.................................
Needlework (home)....................
Sewing (home).........................

Inclusion:
Cleaning programmes are included
in this field even if directed towards
cleaning schools, hospitals, factories
etc.

Exclusion:
Study of building maintenance
is excluded from this field and
included in field *582 Building and
civil engineering.*

815 Hair and beauty services
Hair and beauty services is the study
of caring for the hair and the body
for beautification.

Classified under this field are
programmes with the following main
content:
Barbering...............................
Beauty therapy.........................
Cosmetic services......................
Cosmetology...........................
Fitness and weight control............
Fitness services.........................
Hairdressing............................
Make-up................................
Manicure...............................

Massage (beauty).......................
Pedicure................................
Salon services (beauty therapy).......
Wig making.............................

840 Transport services
Transport services is the study of
operating, navigating and directing
ships, aircraft and other forms of
transportation.

Classified under this field are
programmes with the following main
content:
Air crew programmes (flying and
navigation)..............................
Air traffic control.......................
Aircraft operation......................
Aviation.................................
Bus and coach driving.................
Cabin crew training....................
Communication (air, railway, road
etc.) programmes......................
Crane driving...........................
Driving programmes...................
Flying and navigation..................
Fork-lift driving.........................
Mail operations........................
Nautical science........................
Navigation technologies...............
Postal service...........................
Railway operations.....................
Road motor vehicle operations.......

Seamanship ....
Seamen programmes ....
Ship operation ....
Stewardess/steward training (air) ....
Transport programmes ....
Truck driving ....

Inclusion:

Cabin crew training is included in this field.

Exclusions:

Programmes in telephone network services are excluded from this field and included in field *523 Electronics and automation.*

Programmes in switchboard operating are excluded from this field and included in field *346 Secretarial and office work.*

850 Environmental protection (broad programmes)

Environmental protection (broad programmes) is the study of environmental protection without specialising in any of the detailed fields.

Classified under this field are programmes with the following main content:

Environmental conservation ....
Environmental protection ....

Environmental studies ....
Natural resource use programmes ...
Natural resources conservation ......
Soil and water conservation ....

851 Environmental protection technology

Environmental protection technology is the study of processes in order to minimise discharge and waste and avoid pollution. It includes programmes dealing with control of water, air, soil etc.

Classified under this field are programmes with the following main content:

Air pollution control ....
Ecological technology ....
Environmental control ....
Environmental protection
technology ....
Industrial discharge control ....
Noise pollution control ....
Recycling ....
Water pollution control ....

Exclusion:

Programmes dealing with hygienic standards in food, water etc. are excluded from this field and included in field *853 Community sanitation services.*

852 Natural environments and wildlife

Natural environments and wildlife is the study of the relationships between living organisms in natural environments in order to protect nature and wildlife. It includes study of establishing and maintaining national parks in order to preserve their original natural state.

Classified under this field are programmes with the following main content:

Conservation and land management
National parks and wildlife
management ....
Nature conservation ....
Wildlife management ....
Wildlife ranger studies ....

Exclusions:

Study of forestry and horticulture is excluded from this field and included in some of the fields under the narrow field of *62 Agriculture, forestry and fishery.*

Study of hunting and trapping is excluded from this field and included in field *623 Forestry.*

853 Community sanitation services

Community sanitation services is the study of community services dealing with items that affect public health such as hygienic standards in food, water supply, disposal of sewage and garbage and street cleaning.

Classified under this field are programmes with the following main content:

Garbage disposal ....
Hygiene, community ....
Hygienic standards ....
Refuse collection ....
Refuse/sewage disposal ....
Sanitation, community ....
Street cleaning ....
Water supply (service) ....

Inclusion:

Programmes in services to the community dealing with items that affect public health, such as hygiene standards in food and water supply, disposal of garbage, street cleaning etc. is included in this field.

860 Security services (broad programmes)

Security services (broad programmes) is the study of security services without specialising in any of the detailed fields.

Classified under this field are programmes with the following main content:

Security services ....

861 Protection of persons and property

Protection of persons and property is the study of services to the community concerning protection of property and persons. It comprises training in police work, public security, fire protection and fire fighting.

Classified under this field are programmes with the following main content:

Civil security ....
Customs programmes ....
Diving (professional) ....
Fire technology ....
Fire-protection (fire fighting) ....
Law enforcement ....
Life guarding ....
Police work ....
Policing studies ....
Prison work ....
Public security ....
Security and loss prevention services ....
Security guarding ....

Exclusions:
Study of law is excluded from this field and included in field *380 Law.*

Study of criminology is excluded from this field and included in field *312 Sociology and cultural studies.*

862 Occupational health and safety

Occupational health and safety is the study of recognising, evaluating and controlling environmental factors associated with the workplace.

Classified under this field are programmes with the following main content:

Ergonomics (occupational health and safety) ....
Health and safety in the work place ..
Industrial welfare ....
Job safety ....
Labour protection ....
Labour security ....
Labour welfare (safety) ....
Occupational health and industrial hygiene ....
Occupational health and safety ......
Stress at work ....
Work environment ....

Exclusions:
Study of vocational rehabilitation and occupational therapy is excluded from this field and included in field *726 Therapy and rehabilitation.*

Study of labour law is excluded from this field and included in *380 Law.*

Study of ergonomics is excluded from this field if emphasis is given to technical aspects and is included in the appropriate field under *52 Engineering and engineering trades.*

863 Military and defence

Military and defence is the study of services to the community connected with war and defence, designed to provide training in the principles and practice of military science.

Classified under this field are programmes with the following main content:

Army training ....
Defence studies ....
Military science ....
National security ....
War theory ....

Exclusion:
Military personnel participating in non-military programmes should be classified according to the subject content of the training programme.

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0 GENERAL PROGRAMMES

01 BASIC / BROAD GENERAL PROGRAMMES

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09 PERSONAL SKILLS

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Design	21
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Interior design	21
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215 Craft skills	**22**
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Floristry (flower arranging)	22
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220 Humanities (broad programmes)	**22**
Humanities	22
221 Religion	**22**
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222 Languages = 223+224	**22**
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Linguistics (Other languages)	23
Literature (Other languages)	23
Sign language (Other languages)	23
Translation (Other languages)	23
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52 ENGINEERING AND ENGINEERING TRADES

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Mechanical engineering	32
Mechanical trades programmes	32
Metal casting and patternmaking	32
Metal fitting, turning and machining	32
Metal trades programmes	32
Metallurgical engineering	32
Metallurgical technology	32
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