

Table 11. Number of Doctorate Degrees by Field of Specialization / by Institution Type (Japan)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes
211	ARTS • HUMANITIES	Philosophy	Philosophy	169	8	4	0	0
212			Chinese Philosophy	37	2	0	0	0
213			Indian Philosophy (inclu. Buddhist Studies)	97	7	3	0	0
214			Religion	124	8	1	0	0
215			Ethics	31	0	0	0	0
216			History of Philosophy	67	3	1	0	0
217			Aesthetics (inclu. Arts)	100	7	0	0	1
218			Art History	47	4	0	0	2
			Philosophy total	672	39	9	0	3
221		Psychology • Sociology • Education	Experimental Psychology	288	8	0	1	1
222			Educational and Social	543	36	0	2	1
223			Sociology	355	26	0	1	1
224			Education	336	30	0	5	5
225			Cultural Anthropology (inclu. Ethnology and Folklore)	182	9	0	1	0
			Psychology • Sociology • Education Cultural Anthropology total	1,704	109	0	10	8
231		History	Japanese History	267	14	4	0	0
232			Oriental History	120	2	3	0	0
233			European History	132	2	2	0	0
234			Archaeology (inclu. Prehistory)	56	2	0	0	3
			History total	575	20	9	0	3
241		Language and Literature	Japanese Language	68	6	0	0	1
242			Japanese Literature	205	19	5	0	0
243			Chinese Language and Literature	66	0	0	0	0
244			English Language and Literature	235	14	1	0	0
245			French Language and Literature	124	4	1	0	0
246			German Language and Literature	48	0	1	0	0
247			Other Foreign Languages and Literatures	68	2	1	0	0
248			Linguistics and Phonetics	280	16	0	0	0
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	72	1	0	0	0
			Literature total	1,166	62	9	0	1
			ARTS • HUMANITIES Total	4,117	230	27	10	15
261	LAW	Basic Science of Law	Basic Science of Law	91	2	0	0	0
262			Public Law	98	2	0	0	0
263			International Law	65	0	1	0	0
264			Civil Law	143	1	0	1	0
265			Social Law	31	0	0	0	0
266			Criminal Law	45	0	0	0	0
267			Politics	297	2	1	0	0
			LAW Total	770	7	2	1	0
271	ECONOMICS	General Theory of Economics	General Theory of Economics	394	7	1	0	0
272			Economical Statistics	88	0	0	0	0
273			Economic Policy (inclu. Economic Condition)	368	7	1	0	0
274			Economic History	173	3	0	0	0
275			Public Finance, Money and Banking	164	2	0	0	0
276			Commercial Science	108	3	0	0	0
277			Business Administration	354	13	0	0	0
278			Accounting	174	1	1	0	0
			ECONOMICS Total	1,823	36	3	0	0
301	SCIENCE	Mathematics	Algebra	332	1	22	0	0
302			Geometry	276	3	22	0	0
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	397	6	15	1	0
305			Basic Analysis	298	3	11	0	0
306			Larger-area Analysis	144	1	3	0	0
			Mathematics total	1,447	14	73	1	0
311		Astronomy	Astronomy	122	2	3	28	2
321			Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	553	15	14	64	1

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211	ARTS • HUMANITIES		Philosophy	0	181
212			Chinese Philosophy	0	39
213			Indian Philosophy (inclu. Buddhist Studies)	4	111
214			Religion	0	133
215			Ethics	0	31
216			History of Philosophy	0	71
217			Aesthetics (inclu. Arts)	1	109
218			Art History	0	53
			Philosophy total	5	728
221			Experimental Psychology	1	299
222			Educational and Social	0	582
223			Sociology	1	384
224			Education	0	376
225			Cultural Anthropology (inclu. Ethnology and Folklore)	0	192
		Psychology • Sociology • Education Cultural Anthropology total		2	1,833
231			Japanese History	3	288
232			Oriental History	1	126
233			European History	0	136
234			Archaeology (inclu. Prehistory)	1	62
		History total		5	612
241			Japanese Language	0	75
242			Japanese Literature	0	229
243			Chinese Language and Literature	0	66
244			English Language and Literature	0	250
245			French Language and Literature	0	129
246			German Language and Literature	0	49
247			Other Foreign Languages and Literatures	0	71
248			Linguistics and Phonetics	0	296
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	0	73
			Literature total		0
	ARTS • HUMANITIES Total			12	4,411
261	LAW		Basic Science of Law	0	93
262			Public Law	0	100
263			International Law	0	66
264			Civil Law	3	148
265			Social Law	1	32
266			Criminal Law	0	45
267			Politics	0	300
	LAW Total		4	784	
271	ECONOMICS		General Theory of Economics	0	402
272			Economical Statistics	0	88
273			Economic Policy (inclu. Economic Condition)	3	379
274			Economic History	0	176
275			Public Finance, Money and Banking	0	166
276			Commercial Science	0	111
277			Business Administration	0	367
278			Accounting	0	176
	ECONOMICS Total			3	1,865
301	SCIENCE		Algebra	0	355
302			Geometry	0	301
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	0	419
305			Basic Analysis	0	312
306			Larger-area Analysis	0	148
		Mathematics total		0	1,535
311		Astronomy		0	157
321			Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	0	647

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Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes
322	S C I E N C E		Solid-State Physics I (Optical Properties, Semiconductor and Dielectrics)	324	4	15	5	0
323			Solid-State Physics II (Magnetism, Metal Physics,	373	4	15	5	0
324			Physical Properties in General (inclu. Basic Theories)	235	6	14	6	0
325			Physics in General	221	5	11	11	0
			Physics total	1,706	34	69	91	1
331			Physics of Solid Earth	178	2	0	5	0
332			Meteorology, Oceanography and Hydrology	208	0	10	1	0
333			Aeronomy	53	1	1	0	0
334			Geology	136	0	0	0	2
335			Stratigraphy and Paleontology	59	1	0	0	2
336			Mineralogy, Petrology and Study of Mineral Deposit	162	1	0	0	1
337			Geochemistry	101	0	1	0	0
			Earth Science total	897	5	12	6	5
341			Physical Chemistry	455	6	16	31	1
342			Organic Chemistry	378	3	20	7	0
343			Inorganic Chemistry	227	3	7	5	1
344			Function, Properties and Materials in Chemistry	199	1	7	5	0
345			Substance Transformation	49	0	2	0	0
346			Separation, Refining and Identification	138	5	6	2	0
			Chemistry total	1,446	18	58	50	2
351			Genetics	157	5	0	6	1
352			Ecology	304	13	1	0	1
353			Plant Physiology	198	4	0	7	0
354			Morphology, Structure of Organism	106	5	2	6	2
355			Animal Physiology and	125	3	0	2	0
356			Morphology and Taxonomy	163	1	1	1	21
			Biology total	1,053	31	4	22	25
361			Physical Anthropology (inclu. Physiological Anthropology)	78	2	0	0	0
	SCIENCE Total			6,749	106	219	198	35
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	198	1	11	0	0
402			Surface Physics	125	1	7	1	0
403			Applied Optics and Quantum Optics	194	4	16	3	0
404			General Applied Physics	102	4	9	6	0
405			Fundamentals of Engineering	75	2	8	0	0
			Applied Physics·Fundamentals of Engineering total	694	12	51	10	0
411			Materials for Machines and Strength of Materials	337	4	47	0	0
412			Workshop Processes and Production Engineering	229	1	34	1	0
413			Design Engineering, Machine Elements and Tribology	148	6	20	1	0
414			Fluid Mechanics	294	7	47	0	0
415			Heat Engineering	290	6	40	0	0
416			Mechanics and Control Engineering	211	3	42	0	0
417			Intelligent Mechanics and Machine System	262	4	18	1	0
			Machine Engineering total	1,771	31	248	3	0
421			Electric Power Engineering and Electric Machinery	275	6	57	3	0
422			Electronic and Electric Materials Engineering	346	4	33	0	0
423			Electron Devices and Apparatus Engineering	370	2	34	1	0
424			Information and Communication Engineering	669	6	62	4	0

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322	S C I E N C E		Solid-State Physics I (Optical Properties, Semiconductor and Dielectrics)	0	348
323			Solid-State Physics II (Magnetism, Metal Physics,	1	398
324			Physical Properties in General (inclu. Basic Theories)	0	261
325			Physics in General	2	250
			Physics total	3	1,904
331			Physics of Solid Earth	1	186
332			Meteorology, Oceanography and Hydrology	0	219
333			Aeronomy	0	55
334			Geology	3	141
335			Stratigraphy and Paleontology	2	64
336			Mineralogy, Petrology and Study of Mineral Deposit	0	164
337			Geochemistry	0	102
			Earth Science total	6	931
341			Physical Chemistry	0	509
342			Organic Chemistry	6	414
343			Inorganic Chemistry	0	243
344			Function, Properties and Materials in Chemistry	0	212
345			Substance Transformation	0	51
346			Separation, Refining and Identification	1	152
			Chemistry total	7	1,581
351			Genetics	1	170
352			Ecology	2	321
353			Plant Physiology	1	210
354			Morphology, Structure of Organism	1	122
355			Animal Physiology and	1	131
356			Morphology and Taxonomy	2	189
			Biology total	8	1,143
361			Physical Anthropology (inclu. Physiological Anthropology)	0	80
			SCIENCE Total	24	7,331
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	1	211
402			Surface Physics	0	134
403			Applied Optics and Quantum Optics	2	219
404			General Applied Physics	2	123
405			Fundamentals of Engineering	0	85
			Applied Physics·Fundamentals of Engineering total	5	772
411			Materials for Machines and Strength of Materials	1	389
412			Workshop Processes and Production Engineering	0	265
413			Design Engineering, Machine Elements and Tribology	1	176
414			Fluid Mechanics	0	348
415			Heat Engineering	0	336
416			Mechanics and Control Engineering	0	256
417			Intelligent Mechanics and Machine System	0	285
			Machine Engineering total	2	2,055
421			Electric Power Engineering and Electric Machinery	0	341
422			Electronic and Electric Materials Engineering	2	385
423			Electron Devices and Apparatus Engineering	0	407
424			Information and Communication Engineering	1	742

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Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes
425	E N G I N E E R I N G		System Engineering	148	5	9	1	1
427			Electronic Measurements	241	2	38	0	0
428			Control Engineering	230	2	28	0	0
			Electric and Electronic Engineering	2,279	27	261	9	1
431			Construction Materials and Dynamics in General Civil Engineering	123	0	16	0	0
432			Structural Engineering and Seismology	187	7	24	0	0
433			Ground Engineering	182	1	22	1	0
434			Hydraulics and River Engineering	195	1	17	0	0
435			Traffic Engineering and Regional Planning	158	4	9	0	0
436			Civil Environmental System	136	3	14	0	0
			Civil Engineering total	981	16	102	1	0
441			Building Structure and Materials	313	6	13	0	1
442			Building Science and Building Equipment	164	8	7	0	0
443			City Planning and Building Planning	366	10	20	0	0
444			Architectural History and Design	125	9	9	0	1
			Architecture total	968	33	49	0	2
451			Physical Metallurgy	135	0	13	0	0
452			Inorganic Materials and	222	1	21	2	0
453			Composed Materials and Properties	65	1	5	0	1
454			Structural and Functional Materials	158	1	12	0	0
455			Metallurgy and Material	185	4	20	0	0
456			Metal Productive Engineering	84	0	4	0	0
			Material Engineering total	849	7	75	2	1
461			Chemical Engineering in General	160	0	10	0	0
462			Reaction and Separation Engineering	102	0	4	0	0
463			Catalyst and Chemical Process	90	1	3	1	0
464			Bioengineering	192	0	11	0	0
465			Industrial Analytical Chemistry	93	1	10	0	0
			Process Engineering total	637	2	38	1	0
471			Industrial Physical Chemistry	151	0	5	0	0
472			Industrial Inorganic Chemistry	70	0	7	0	0
473			Industrial Organic Chemistry	69	3	7	0	0
474			Synthetic Chemistry	186	0	11	2	0
475			Polymer Synthesis	150	1	12	1	0
476			Polymer Structure and Property (inclu. Fiber)	163	13	5	1	0
			Industrial Chemistry total	789	17	47	4	0
481			Aeronautics	85	0	2	0	0
482			Ship Engineering	63	0	4	0	0
483			Marine Engineering	30	0	2	0	0
484			Resource Development Engineering	74	0	5	0	0
			Synthetic Engineering total	252	0	13	0	0
			ENGINEERING Total	9,220	145	884	30	4
501	A G R I C U L T U R E		Plant Breeding	91	4	1	0	2
502			Crop Science	80	4	1	0	0
503			Horticulture and Landscape Architecture	202	18	0	0	2
504			Plant Protection	121	6	0	0	0
505			Sericultural Science and Economic Entomology	42	3	0	0	0
			Agriculture total	536	35	2	0	4
511			Plant Fertilizer and Manure and Soil Science	116	6	0	0	1
512			Applied Microbiochemistry and Applied Biochemistry	333	16	11	0	0
513			Biological Productive Chemistry and Bioorganic Chemistry	115	6	1	0	0
514			Food Science and Nutritional Chemistry	309	86	4	0	0

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425	E N G I N E E R I N G		System Engineering	0	164
427			Electronic Measurements	0	281
428			Control Engineering	0	260
			Electric and Electronic Engineering	3	2,580
431			Construction Materials and Dynamics in General Civil Engineering	0	139
432			Structural Engineering and Seismology	0	218
433			Ground Engineering	1	207
434			Hydraulics and River Engineering	1	214
435			Traffic Engineering and Regional Planning	0	171
436			Civil Environmental System	0	153
			Civil Engineering total	2	1,102
441		N	Building Structure and Materials	1	334
442			Building Science and Building Equipment	3	182
443			City Planning and Building Planning	0	396
444			Architectural History and Design	0	144
			Architecture total	4	1,056
451		N	Physical Metallurgy	2	150
452			Inorganic Materials and	0	246
453		E	Composed Materials and Properties	0	72
454			Structural and Functional Materials	2	173
455		R	Metallurgy and Material	0	209
456			Metal Productive Engineering	0	88
			Material Engineering total	4	938
461		I	Chemical Engineering in General	0	170
462			Reaction and Separation Engineering	0	106
463			Catalyst and Chemical Process	0	95
464			Bioengineering	2	205
465			Industrial Analytical Chemistry	0	104
			Process Engineering total	2	680
471			Industrial Physical Chemistry	0	156
472			Industrial Inorganic Chemistry	0	77
473			Industrial Organic Chemistry	0	79
474			Synthetic Chemistry	2	201
475			Polymer Synthesis	1	165
476			Polymer Structure and Property (inclu. Fiber)	0	182
			Industrial Chemistry total	3	860
481			Aeronautics	0	87
482			Ship Engineering	0	67
483			Marine Engineering	0	32
484			Resource Development Engineering	0	79
			Synthetic Engineering total	0	265
			ENGINEERING Total	25	10,308
501	A G R I C U L T U R E		Plant Breeding	2	100
502			Crop Science	0	85
503			Horticulture and Landscape Architecture	1	223
504			Plant Protection	0	127
505			Sericultural Science and Economic Entomology	5	50
			Agriculture total	8	585
511			Plant Fertilizer and Manure and Soil Science	0	123
512			Applied Microbiochemistry and Applied Biochemistry	6	366
513			Biological Productive Chemistry and Bioorganic Chemistry	2	124
514			Food Science and Nutritional Chemistry	1	400

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Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes
	A		Agricultural Chemistry total	873	114	16	0	1
521			Forestry	211	3	0	0	0
522	G		Wood Science	120	1	0	0	0
			Forestry total	331	4	0	0	0
531	R		Fisheries in General	217	0	0	0	0
532			Fisheries Chemistry	90	5	1	0	0
			Fisheries total	307	5	1	0	0
541	I		Agricultural Economics	197	9	0	0	0
551	C		Irrigation, Drainage and Reclamation Engineering and Rural Planning	125	12	0	0	0
552	U		Agricultural Machinery	83	6	1	0	0
553	L		Biological Environment	43	1	0	0	0
			Agricultural Engineering total	251	19	1	0	0
561	T		Animal Science and Grassland Science	110	5	0	0	0
562	U		Applied Animal Science	107	5	0	0	0
563	R		Basic Veterinary Medicine and Basic Animal Science	172	3	0	0	1
564			Applied Veterinary Medicine	160	1	0	0	0
	E		Animal Science·Veterinary Medicine total	549	14	0	0	1
571			Biological Resource Science	51	0	0	0	0
572			Applied Molecular Cell Biology	54	0	2	0	0
			Interdisciplinary Agricultural Science total	105	0	2	0	0
			AGRICULTURE Total	3,149	200	22	0	6
601			Anatomy in General (inclu. Histology, Embryology)	262	13	0	1	0
602			Physiology in General	281	8	0	9	1
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	172	14	0	0	0
604			Pharmacology in General	228	8	0	2	0
605			Medical Chemistry in General	219	11	1	1	0
606			Pathological Medical Chemistry	108	2	0	0	0
	M		Physiology total	1,270	56	1	13	1
611			Hominal Pathology	340	5	0	0	0
612	E		Experimental Pathology	152	6	0	0	0
613	D		Parasitology (inclu. Medical Zoology)	113	7	0	0	1
614			Bacteriology (inclu. Eumycetes)	202	13	1	0	0
615	I		Virology	143	1	0	0	0
616			Immunology	247	4	0	0	0
	C		Pathology total	1,197	36	1	0	1
621			Hygiene	179	10	0	0	0
622	I		Public Health and Health Science	434	33	1	0	1
623			Legal Medicine	151	0	0	0	0
	N		Social Medicine total	764	43	1	0	1
631			Internal Medicine in General	344	6	0	0	0
632	E		Gastroenterology	419	2	0	0	0
633			Internal Medicine Respiratory System	204	1	0	0	0
634			Neurological Medicine	259	1	0	1	0
635			Cardioangiolog	462	3	0	0	0
636			Pediatrics	410	5	0	0	0
637			Dermatology	203	2	0	0	0
638			Radiology	453	11	0	1	0
639			Neuropsychiatry	343	8	0	0	1
641			Hematology	304	3	0	0	0
642			Internal Medicine of Kidney	174	4	0	0	0
643			Embryology and Newborn	36	0	0	0	0
644			Endocrinology	152	0	0	0	0
645			Metabolic Science	172	2	0	0	0
			Internal Medicine total	3,935	48	0	2	1
651			Surgery in General	349	3	0	0	0
652			Gastroenterological Surgery	353	0	0	0	0
653			Thoracic Surgery	264	1	0	0	0

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	A		Agricultural Chemistry total	9	1,013
521			Forestry	0	214
522	G		Wood Science	1	122
			Forestry total	1	336
531	R		Fisheries in General	1	218
532			Fisheries Chemistry	1	97
			Fisheries total	2	315
541	I		Agricultural Economics	0	206
551	C		Irrigation, Drainage and Reclamation Engineering and Rural Planning	0	137
552	U		Agricultural Machinery	0	90
553	L		Biological Environment	0	44
			Agricultural Engineering total	0	271
561	T		Animal Science and Grassland Science	0	115
562	U		Applied Animal Science	1	113
563	R		Basic Veterinary Medicine and Basic Animal Science	8	184
564			Applied Veterinary Medicine	5	166
	E		Animal Science·Veterinary Medicine total	14	578
571			Biological Resource Science	0	51
572			Applied Molecular Cell Biology	0	56
			Interdisciplinary Agricultural Science total	0	107
			AGRICULTURE Total	34	3,411
601			Anatomy in General (inclu. Histology, Embryology)	1	277
602			Physiology in General	0	299
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	0	186
604			Pharmacology in General	0	238
605			Medical Chemistry in General	1	233
606			Pathological Medical Chemistry	1	111
	M		Physiology total	3	1,344
611			Hominal Pathology	5	350
612	E		Experimental Pathology	5	163
613	D		Parasitology (inclu. Medical Zoology)	0	121
614			Bacteriology (inclu. Eumycetes)	2	218
615	I		Virology	4	148
616			Immunology	6	257
			Pathology total	22	1,257
621	C		Hygiene	7	196
622	I		Public Health and Health Science	2	471
623			Legal Medicine	0	151
			Social Medicine total	9	818
631	N		Internal Medicine in General	1	351
632	E		Gastroenterology	3	424
633			Internal Medicine Respiratory System	2	207
634			Neurological Medicine	0	261
635			Cardioangiolog	4	469
636			Pediatrics	1	416
637			Dermatology	0	205
638			Radiology	3	468
639			Neuropsychiatry	0	352
641			Hematology	1	308
642			Internal Medicine of Kidney	2	180
643			Embryology and Newborn	0	36
644			Endocrinology	1	153
645			Metabolic Science	1	175
			Internal Medicine total	19	4,005
651			Surgery in General	1	353
652			Gastroenterological Surgery	3	356
653			Thoracic Surgery	1	266

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654	M		Neurosurgery	290	0	0	0	0	
655			Orthopedic Surgery	431	4	0	0	0	
656			Anesthesiology and Rescue Medicine	355	1	0	0	0	
657			Urology	249	0	0	0	0	
658			Obstetrics and Gynecology	338	4	0	0	0	
659			Oto-rhino-laryngology	222	0	0	0	0	
660			Ophthalmology	236	0	0	0	0	
661			Pediatric Surgery	67	0	0	0	0	
662			Formative Surgery	61	0	0	0	0	
			Surgery total	3,215	13	0	0	0	
671		E		Oral Anatomy and Morphological Basic Dentistry	224	2	0	0	0
672				Functional Basic Dentistry	179	3	0	0	0
673				Morbid Dentistry (inclu. Dental Radiology)	171	0	0	0	0
674				Conservative Dentistry	279	12	0	0	0
675				Prosthodontics and Dental Technology	387	4	0	0	0
676				Oral Surgery	467	3	0	0	0
677				Orthodontics, Pedodontics and Social Dentistry	400	4	0	0	0
678				Periodontological Dentistry	94	2	0	0	0
		Dentistry total	2,201	30	0	0	0		
681				Chemical Pharmaceutics	389	1	2	0	0
682	Physical Pharmaceutics			173	1	0	0	0	
683	Biopharmaceutics			434	4	1	0	0	
684	Molecular Pharmaceutics			109	1	0	0	0	
685	Environmental Pharmaceutics			53	0	1	0	0	
	Pharmaceutics total		1,158	7	4	0	0		
691				Medical Sociology	125	5	0	0	0
692				Human Genetics	89	1	0	0	0
693				Applied Pharmacology and Medical Pharmacology	144	1	0	0	0
694				Pathological Examination	119	9	0	0	0
696		Science of Basic and Local Nursing		134	8	1	0	0	
697		Science of Clinical Nursing		145	10	0	0	0	
	Medicine in General total	756	34	1	0	0			
	MEDICINE Total			14,496	267	8	15	4	
702	I N T E R D I S C I P L I N A R Y		History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	59	0	1	1	2	
703			Physical Education	296	9	2	0	0	
704			Human Geography	138	1	0	0	1	
705			Physical Geography	101	1	0	0	0	
			Geography total	239	2	0	0	1	
706			Home Science(inclu. Cloth/Living Environments)	158	33	0	0	0	
707			Food Culture	129	63	0	0	0	
			Domestic Science total	287	96	0	0	0	
708			Science of Cultural Property	12	1	0	0	2	
711			Science Education	104	7	10	0	1	
712			Educational Engineering	98	9	6	6	3	
713			Curriculum Studies	119	5	2	0	0	
714			Japanese Language Education	35	0	0	0	1	
			Science Education·Curriculum Education total	356	21	18	6	5	
721	A R E A		Statistics	103	0	0	1	0	
731			Computer Science	566	6	34	0	1	
732			Intelligent Informatics	561	12	29	2	1	
733			Study of Information System (Inclu. Library and Information Science)	253	11	9	2	0	
			Information Science total	1,380	29	72	4	2	
741			Social System Engineering	264	3	4	0	1	
751			Natural Disaster Science	35	0	2	0	0	
761			Plasma Science and Technology	147	1	6	0	0	
772			Nuclear Fusion	47	1	1	0	0	

Table 11. Number of Doctorate Degrees by Field of Specialization / by Institution Type (Japan)

Code	Subj ect	Subd ivision	I t e m	Private Scientific Research Institutes	Total
654	M <				

Table 11. Number of Doctorate Degrees by Field of Specialization / by Institution Type (Japan)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes
773	N T E R D I S C I P L I N A R Y A R E A		Energy Science General	67	1	4	0	0
774			Nuclear Power Science	130	0	2	4	0
			Energy total	244	2	7	4	0
801			Environmental Dynamic Analysis	139	4	1	0	0
802			Environmental Influence Assessment (inclu. Radiobiology)	139	6	3	0	0
803			Environmental Preservation	205	7	7	0	0
			Environmental Science total	483	17	11	0	0
811			Biological Organic Chemistry	149	2	4	0	0
812			Structured Biochemistry	141	2	1	1	0
813			Functional Biochemistry	206	8	0	0	0
			Biological Chemistry total	496	12	5	1	0
821			Biophysics	191	1	5	6	0
822			Molecular Biology	452	9	2	9	0
823			Cell Biology	286	2	0	4	0
824			Developmental Biology	149	0	1	8	0
			Basic Biology total	1,078	12	8	27	0
831			Neuroanatomy and Neuropathology	128	2	0	2	0
832			Neurochemistry and Neuropharmacology	123	1	0	0	0
833			Neuro Science in General	236	5	0	17	0
834			Neuro and Muscular Physiology	169	5	0	7	0
			Neuro Science (inclu. Brain Science) total	656	13	0	26	0
841			Laboratory Animal Science	62	0	1	1	0
851			Medical Organism Engineering and Material Science of Organism	289	9	14	0	0
	INTERDISCIPLINARY AREA Total			6,486	227	151	71	13
999	WIDE AREA Total			694	27	8	2	1
	Item n.a. Total			23,135	534	884	185	54
	Grand Total			70,639	1,779	2,208	512	132

Table 11. Number of Doctorate Degrees by Field of Specialization / by Institution Type (Japan)

Code	Subject	Subdivision	Item	Private Scientific Research Institutes	Total
773	N T E R D I S C I P L I N A R Y A R E A		Energy Science General	0	72
774			Nuclear Power Science	0	136
			Energy total	1	258
801			Environmental Dynamic Analysis	0	144
802			Environmental Influence Assessment (inclu. Radiobiology)	3	151
803			Environmental Preservation	1	220
			Environmental Science total	4	515
811			Biological Organic Chemistry	4	159
812			Structured Biochemistry	2	147
813			Functional Biochemistry	0	214
			Biological Chemistry total	6	520
821			Biophysics	0	203
822			Molecular Biology	7	479
823			Cell Biology	11	303
824			Developmental Biology	2	160
			Basic Biology total	20	1,145
831	A R E A		Neuroanatomy and Neuropathology	0	132
832			Neurochemistry and Neuropharmacology	2	126
833			Neuro Science in General	2	260
834			Neuro and Muscular Physiology	0	181
			Neuro Science (inclu. Brain Science) total	4	699
841			Laboratory Animal Science	5	69
851			Medical Organism Engineering and Material Science of Organism	2	314
	INTERDISCIPLINARY AREA Total			49	6,997
999	WIDE AREA Total			1	733
	Item n.a. Total			176	24,968
	Grand Total			403	75,673

Table 12. Number of Doctorate Degrees by Field of Specialization / by Institution Type (National Institutions)

Code	Subj ect	Subd ivision	I t e m	Universities	Junior Colleges	Colleges of Technology	Inter- University Research Institutes	Government Research Institutes	Total	
211	ARTS • HUMANITIES		Philosophy	60	0	2	0	0	62	
212			Chinese Philosophy	14	0	0	0	0	14	
213			Indian Philosophy (inclu. Buddhist Studies)	13	0	3	0	0	16	
214			Religion	19	0	0	0	0	19	
215			Ethics	19	0	0	0	0	19	
216			History of Philosophy	22	0	1	0	0	23	
217			Aesthetics (inclu. Arts)	41	0	0	0	1	42	
218			Art History	19	1	0	0	2	22	
		Philosophy total	207	1	6	0	3	217		
221			Experimental Psychology	139	0	0	1	1	141	
222			Educational and Social	237	0	0	2	1	240	
223			Sociology	74	1	0	1	1	77	
224			Education	176	0	0	5	5	186	
225			Cultural Anthropology (inclu. Ethnology and Folklore)	74	0	0	1	0	75	
		Psychology • Sociology • Education Cultural Anthropology total	700	1	0	10	8	719		
231			Japanese History	114	0	3	0	0	117	
232			Oriental History	40	0	3	0	0	43	
233			European History	50	0	2	0	0	52	
234			Archaeology (inclu. Prehistory)	23	0	0	0	3	26	
			History total	227	0	8	0	3	238	
241				Japanese Language	30	0	0	0	1	31
242				Japanese Literature	52	0	5	0	0	57
243				Chinese Language and Literature	22	0	0	0	0	22
244		English Language and Literature		72	0	1	0	0	73	
245		French Language and Literature		38	0	1	0	0	39	
246		German Language and Literature		17	0	1	0	0	18	
247		Other Foreign Languages and Literatures		23	0	1	0	0	24	
248		Linguistics and Phonetics		88	0	0	0	0	88	
249		Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics		25	0	0	0	0	25	
		Literature total	367	0	9	0	1	377		
	ARTS • HUMANITIES Total			1,501	2	23	10	15	1,551	
261	LAW	Basic Science of Law	33	0	0	0	0	33		
262		Public Law	33	0	0	0	0	33		
263		International Law	13	0	1	0	0	14		
264		Civil Law	49	0	0	1	0	50		
265		Social Law	9	0	0	0	0	9		
266		Criminal Law	13	0	0	0	0	13		
267		Politics	83	0	1	0	0	84		
	LAW Total			233	0	2	1	0	236	
271	ECONOMICS	General Theory of Economics	131	0	1	0	0	132		
272		Economical Statistics	33	0	0	0	0	33		
273		Economic Policy (inclu. Economic Condition)	102	0	1	0	0	103		
274		Economic History	63	0	0	0	0	63		
275		Public Finance, Money and Banking	48	0	0	0	0	48		
276		Commercial Science	14	0	0	0	0	14		
277		Business Administration	68	0	0	0	0	68		
278		Accounting	43	0	1	0	0	44		
	ECONOMICS Total			502	0	3	0	0	505	
301	SCIENCE	Algebra	198	0	22	0	0	220		
302		Geometry	178	0	20	0	0	198		
304		Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	214	0	12	1	0	227		
305		Basic Analysis	180	0	10	0	0	190		
306		Larger-area Analysis	93	0	3	0	0	96		
		Mathematics total	863	0	67	1	0	931		
311		Astronomy	92	0	3	28	2	125		
321		Elementary Particles Physics, Nuclear Physics, Cosmic Ray Phvsics, and Cosmic Phvsics	331	0	12	64	1	408		

Table 12. Number of Doctorate Degrees by Field of Specialization / by Institution Type (National Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Total
322	S C I E N C E		Solid-State Physics I (Optical Properties, Semiconductor and Dielectrics)	209	0	13	5	0	227
323			Solid-State Physics II (Magnetism, Metal Physics,	264	0	14	5	0	283
324			Physical Properties in General (inclu. Basic Theories)	143	0	12	6	0	161
325			Physics in General	139	0	9	11	0	159
			Physics total	1,086	0	60	91	1	1,238
331			Physics of Solid Earth	151	0	0	5	0	156
332			Meteorology, Oceanography and Hydrology	159	0	9	1	0	169
333			Aeronomy	38	0	1	0	0	39
334			Geology	100	0	0	0	2	102
335			Stratigraphy and Paleontology	50	0	0	0	2	52
336			Mineralogy, Petrology and Study of Mineral Deposit	139	0	0	0	1	140
337			Geochemistry	78	0	1	0	0	79
			Earth Science total	715	0	11	6	5	737
341			Physical Chemistry	302	0	14	31	1	348
342			Organic Chemistry	250	0	17	7	0	274
343			Inorganic Chemistry	147	0	6	5	1	159
344			Function, Properties and Materials in Chemistry	136	0	7	5	0	148
345			Substance Transformation	35	0	1	0	0	36
346			Separation, Refining and Identification	80	0	6	2	0	88
			Chemistry total	950	0	51	50	2	1,053
351			Genetics	116	0	0	6	1	123
352			Ecology	214	0	1	0	1	216
353			Plant Physiology	121	0	0	7	0	128
354			Morphology, Structure of Organism	64	0	2	6	2	74
355			Animal Physiology and	86	0	0	2	0	88
356			Morphology and Taxonomy	114	0	1	1	21	137
			Biology total	715	0	4	22	25	766
361			Physical Anthropology (inclu. Physiological Anthropology)	39	0	0	0	0	39
			SCIENCE Total	4,460	0	196	198	35	4,889
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	127	0	8	0	0	135
402			Surface Physics	81	0	7	1	0	89
403			Applied Optics and Quantum Optics	116	0	15	3	0	134
404			General Applied Physics	65	0	9	6	0	80
405			Fundamentals of Engineering	41	0	7	0	0	48
			Applied Physics·Fundamentals of Engineering total	430	0	46	10	0	486
411			Materials for Machines and Strength of Materials	178	0	42	0	0	220
412			Workshop Processes and Production Engineering	129	0	30	1	0	160
413			Design Engineering, Machine Elements and Tribology	78	0	17	1	0	96
414			Fluid Mechanics	164	1	43	0	0	208
415			Heat Engineering	176	1	35	0	0	212
416			Mechanics and Control Engineering	124	0	38	0	0	162
417			Intelligent Mechanics and Machine System	155	0	17	1	0	173
			Machine Engineering total	1,004	2	222	3	0	1,231
421			Electric Power Engineering and Electric Machinery	126	0	52	3	0	181
422			Electronic and Electric Materials Engineering	203	0	33	0	0	236
423			Electron Devices and Apparatus Engineering	190	0	33	1	0	224
424			Information and Communication Engineering	333	1	55	4	0	393

Table 12. Number of Doctorate Degrees by Field of Specialization / by Institution Type (National Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Total
425	E		System Engineering	76	0	9	1	1	87
427			Electronic Measurements	125	0	35	0	0	160
428			Control Engineering	141	0	25	0	0	166
			Electric and Electronic Engineering	1,194	1	242	9	1	1,447
431			Construction Materials and Dynamics in General Civil Engineering	65	0	16	0	0	81
432			Structural Engineering and Seismology	98	0	21	0	0	119
433			Ground Engineering	120	0	22	1	0	143
434			Hydraulics and River Engineering	135	0	14	0	0	149
435			Traffic Engineering and Regional Planning	87	0	9	0	0	96
436			Civil Environmental System	86	0	14	0	0	100
			Civil Engineering total	591	0	96	1	0	688
441		N	Building Structure and Materials	135	0	13	0	1	149
442			Building Science and Building Equipment	67	1	6	0	0	74
443			City Planning and Building Planning	136	0	19	0	0	155
444			Architectural History and Design	60	1	9	0	1	71
			Architecture total	398	2	47	0	2	449
451		N	Physical Metallurgy	109	0	13	0	0	122
452			Inorganic Materials and	162	0	21	2	0	185
453		E	Composed Materials and Properties	45	0	5	0	1	51
454			Structural and Functional Materials	122	0	11	0	0	133
455		R	Metallurgy and Material	124	1	16	0	0	141
456			Metal Productive Engineering	67	0	3	0	0	70
			Material Engineering total	629	1	69	2	1	702
461		N	Chemical Engineering in General	121	0	8	0	0	129
462			Reaction and Separation Engineering	81	0	4	0	0	85
463			Catalyst and Chemical Process	66	0	3	1	0	70
464			Bioengineering	135	0	11	0	0	146
465			Industrial Analytical Chemistry	58	0	9	0	0	67
			Process Engineering total	461	0	35	1	0	497
471			Industrial Physical Chemistry	103	0	3	0	0	106
472			Industrial Inorganic Chemistry	52	0	7	0	0	59
473			Industrial Organic Chemistry	44	0	7	0	0	51
474			Synthetic Chemistry	142	0	10	2	0	154
475			Polymer Synthesis	109	0	11	1	0	121
476			Polymer Structure and Property (inclu. Fiber)	115	0	4	1	0	120
			Industrial Chemistry total	565	0	42	4	0	611
481			Aeronautics	56	0	1	0	0	57
482			Ship Engineering	50	0	4	0	0	54
483			Marine Engineering	17	0	2	0	0	19
484			Resource Development Engineering	59	0	3	0	0	62
			Synthetic Engineering total	182	0	10	0	0	192
			ENGINEERING Total	5,454	6	809	30	4	6,303
501	A G R I C U L T U R E		Plant Breeding	61	0	1	0	2	64
502			Crop Science	63	0	1	0	0	64
503			Horticulture and Landscape Architecture	125	0	0	0	2	127
504			Plant Protection	89	0	0	0	0	89
505			Sericultural Science and Economic Entomology	32	0	0	0	0	32
			Agriculture total	370	0	2	0	4	376
511			Plant Fertilizer and Manure and Soil Science	90	0	0	0	1	91
512			Applied Microbiochemistry and Applied Biochemistry	185	0	11	0	0	196
513			Biological Productive Chemistry and Bioorganic Chemistry	80	0	1	0	0	81
514			Food Science and Nutritional Chemistry	144	0	4	0	0	148

Table 12. Number of Doctorate Degrees by Field of Specialization / by Institution Type (National Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Total
	A		Agricultural Chemistry total	499	0	16	0	1	516
521			Forestry	181	0	0	0	0	181
522	G		Wood Science	105	1	0	0	0	106
			Forestry total	286	1	0	0	0	287
531	R		Fisheries in General	156	0	0	0	0	156
532			Fisheries Chemistry	68	0	1	0	0	69
			Fisheries total	224	0	1	0	0	225
541	I		Agricultural Economics	111	0	0	0	0	111
551	C		Irrigation, Drainage and Reclamation Engineering and Rural Planning	103	0	0	0	0	103
552	U		Agricultural Machinery	73	0	1	0	0	74
553	L		Biological Environment	34	0	0	0	0	34
			Agricultural Engineering total	210	0	1	0	0	211
561	T		Animal Science and Grassland Science	80	0	0	0	0	80
562	U		Applied Animal Science	82	0	0	0	0	82
563	R		Basic Veterinary Medicine and Basic Animal Science	102	0	0	0	1	103
564			Applied Veterinary Medicine	79	0	0	0	0	79
	E		Animal Science-Veterinary Medicine total	343	0	0	0	1	344
571			Biological Resource Science	38	0	0	0	0	38
572			Applied Molecular Cell Biology	36	0	2	0	0	38
			Interdisciplinary Agricultural Science total	74	0	2	0	0	76
			AGRICULTURE Total	2,117	1	22	0	6	2,146
601			Anatomy in General (inclu. Histology, Embryology)	120	1	0	1	0	122
602			Physiology in General	137	0	0	9	1	147
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	70	0	0	0	0	70
604			Pharmacology in General	88	0	0	2	0	90
605			Medical Chemistry in General	125	1	1	1	0	128
606			Pathological Medical Chemistry	64	0	0	0	0	64
	M		Physiology total	604	2	1	13	1	621
611			Hominal Pathology	152	0	0	0	0	152
612	E		Experimental Pathology	91	0	0	0	0	91
613	D		Parasitology (inclu. Medical Zoology)	62	0	0	0	1	63
614			Bacteriology (inclu. Eumycetes)	87	2	1	0	0	90
615	I		Virology	98	0	0	0	0	98
616			Immunology	136	0	0	0	0	136
	C		Pathology total	626	2	1	0	1	630
621			Hygiene	71	0	0	0	0	71
622	I		Public Health and Health Science	178	0	1	0	1	180
623			Legal Medicine	78	0	0	0	0	78
	N		Social Medicine total	327	0	1	0	1	329
631			Internal Medicine in General	145	1	0	0	0	146
632	E		Gastroenterology	180	1	0	0	0	181
633			Internal Medicine Respiratory System	90	0	0	0	0	90
634			Neurological Medicine	119	1	0	1	0	121
635			Cardioangiopathy	196	0	0	0	0	196
636			Pediatrics	195	0	0	0	0	195
637			Dermatology	105	0	0	0	0	105
638			Radiology	238	0	0	1	0	239
639			Neuropsychiatry	151	0	0	0	1	152
641			Hematology	156	0	0	0	0	156
642			Internal Medicine of Kidney	78	1	0	0	0	79
643			Embryology and Newborn	11	0	0	0	0	11
644			Endocrinology	80	0	0	0	0	80
645			Metabolic Science	83	0	0	0	0	83
			Internal Medicine total	1,827	4	0	2	1	1,834
651			Surgery in General	134	0	0	0	0	134
652			Gastroenterological Surgery	157	0	0	0	0	157
653			Thoracic Surgery	110	0	0	0	0	110

Table 12. Number of Doctorate Degrees by Field of Specialization / by Institution Type (National Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Total
654	M		Neurosurgery	128	0	0	0	0	128
655			Orthopedic Surgery	189	0	0	0	0	189
656			Anesthesiology and Rescue Medicine	182	0	0	0	0	182
657			Urology	122	0	0	0	0	122
658			Obstetrics and Gynecology	156	0	0	0	0	156
659			Oto-rhino-laryngology	95	0	0	0	0	95
660			Ophthalmology	111	0	0	0	0	111
661			Pediatric Surgery	35	0	0	0	0	35
662			Formative Surgery	18	0	0	0	0	18
			Surgery total	1,437	0	0	0	0	1,437
671	E		Oral Anatomy and Morphological Basic Dentistry	78	0	0	0	0	78
672	D		Functional Basic Dentistry	57	0	0	0	0	57
673	I		Morbid Dentistry (inclu. Dental Radiology)	61	0	0	0	0	61
674	C		Conservative Dentistry	88	0	0	0	0	88
675	I		Prosthodontics and Dental Technology	145	0	0	0	0	145
676	I		Oral Surgery	210	0	0	0	0	210
677	N		Orthodontics, Pedodontics and Social Dentistry	173	0	0	0	0	173
678	E		Periodontological Dentistry	47	0	0	0	0	47
			Dentistry total	859	0	0	0	0	859
681			Chemical Pharmaceutics	101	0	2	0	0	103
682			Physical Pharmaceutics	49	0	0	0	0	49
683			Biopharmaceutics	122	0	1	0	0	123
684			Molecular Pharmaceutics	43	0	0	0	0	43
685			Environmental Pharmaceutics	13	0	1	0	0	14
			Pharmaceutics total	328	0	4	0	0	332
691			Medical Sociology	48	1	0	0	0	49
692			Human Genetics	53	0	0	0	0	53
693			Applied Pharmacology and Medical Pharmacology	56	0	0	0	0	56
694			Pathological Examination	67	0	0	0	0	67
696			Science of Basic and Local Nursing	61	0	1	0	0	62
697			Science of Clinical Nursing	72	0	0	0	0	72
			Medicine in General total	357	1	1	0	0	359
			MEDICINE Total	6,365	9	8	15	4	6,401
702	I N T E R D I S C I P L I N A R Y		History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	22	0	1	1	2	26
703			Physical Education	154	0	2	0	0	156
704			Human Geography	59	0	0	0	1	60
705			Physical Geography	63	0	0	0	0	63
			Geography total	122	0	0	0	1	123
706			Home Science (inclu. Cloth/Living Environments)	72	0	0	0	0	72
707			Food Culture	33	0	0	0	0	33
			Domestic Science total	105	0	0	0	0	105
708			Science of Cultural Property	10	1	0	0	2	13
711			Science Education	72	1	8	0	1	82
712	A R E A		Educational Engineering	38	2	6	6	3	55
713			Curriculum Studies	91	0	2	0	0	93
714			Japanese Language Education	23	0	0	0	1	24
			Science Education·Curriculum Education total	224	3	16	6	5	254
721			Statistics	49	0	0	1	0	50
731			Computer Science	323	2	32	0	1	358
732			Intelligent Informatics	315	2	26	2	1	346
733			Study of Information System (Inclu. Library and Information Science)	114	2	9	2	0	127
			Information Science total	752	6	67	4	2	831
741			Social System Engineering	109	0	4	0	1	114
751	I		Natural Disaster Science	22	0	1	0	0	23
761			Plasma Science and Technology	111	0	5	0	0	116
772			Nuclear Fusion	37	0	1	0	0	38

Table 12. Number of Doctorate Degrees by Field of Specialization / by Institution Type (National Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Total
773	N		Energy Science General	46	0	4	0	0	50
774			Nuclear Power Science	111	0	2	4	0	117
	E		Energy total	194	0	7	4	0	205
801	R		Environmental Dynamic Analysis	87	0	1	0	0	88
802			Environmental Influence Assessment (inclu. Radiobiology)	79	0	2	0	0	81
803			Environmental Preservation	107	0	7	0	0	114
			Environmental Science total	273	0	10	0	0	283
811	I		Biological Organic Chemistry	96	0	4	0	0	100
812			Structured Biochemistry	80	0	1	1	0	82
813			Functional Biochemistry	117	0	0	0	0	117
			Biological Chemistry total	293	0	5	1	0	299
821	N		Biophysics	123	0	4	6	0	133
822			Molecular Biology	297	0	2	9	0	308
823			Cell Biology	177	0	0	4	0	181
824			Developmental Biology	108	0	1	8	0	117
			Basic Biology total	705	0	7	27	0	739
831	A		Neuroanatomy and Neuropathology	70	1	0	2	0	73
832			Neurochemistry and Neuropharmacology	61	0	0	0	0	61
833			Neuro Science in General	137	0	0	17	0	154
834			Neuro and Muscular Physiology	89	1	0	7	0	97
			Neuro Science (inclu. Brain Science) total	357	2	0	26	0	385
841			Laboratory Animal Science	38	0	1	1	0	40
851			Medical Organism Engineering and Material Science of Organism	151	1	11	0	0	163
	INTERDISCIPLINARY AREA Total			3,691	13	137	71	13	3,925
999	WIDE AREA Total			363	4	8	2	1	378
	Item n.a. Total			12,147	12	824	185	54	13,222
	Grand Total			36,833	47	2,032	512	132	39,556

Table 13. Number of Doctorate Degrees by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Total
211	ARTS • HUMANITIES		Philosophy	8	0	2	10
212			Chinese Philosophy	4	2	0	6
213			Indian Philosophy (inclu. Buddhist Studies)	4	0	0	4
214			Religion	2	0	1	3
215			Ethics	3	0	0	3
216			History of Philosophy	7	0	0	7
217			Aesthetics (inclu. Arts)	9	0	0	9
218			Art History	4	1	0	5
			Philosophy total	41	3	3	47
221			Experimental Psychology	19	0	0	19
222			Educational and Social	22	1	0	23
223			Sociology	38	4	0	42
224			Education	14	1	0	15
225			Cultural Anthropology (inclu. Ethnology and Folklore)	11	1	0	12
			Psychology • Sociology • Education Cultural Anthropology total	104	7	0	111
231			Japanese History	20	2	1	23
232			Oriental History	8	0	0	8
233			European History	12	1	0	13
234			Archaeology (inclu. Prehistory)	0	0	0	0
			History total	40	3	1	44
241			Japanese Language	4	0	0	4
242			Japanese Literature	12	3	0	15
243			Chinese Language and Literature	2	0	0	2
244			English Language and Literature	18	3	0	21
245			French Language and Literature	11	0	0	11
246			German Language and Literature	6	0	0	6
247			Other Foreign Languages and Literatures	5	1	0	6
248			Linguistics and Phonetics	18	3	0	21
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	3	0	0	3
			Literature total	79	10	0	89
			ARTS • HUMANITIES Total	264	23	4	291
261	LAW		Basic Science of Law	4	0	0	4
262			Public Law	7	1	0	8
263			International Law	7	0	0	7
264			Civil Law	6	0	0	6
265			Social Law	1	0	0	1
266			Criminal Law	0	0	0	0
267			Politics	24	1	0	25
			LAW Total	49	2	0	51
271	ECONOMICS		General Theory of Economics	34	2	0	36
272			Economical Statistics	9	0	0	9
273			Economic Policy (inclu. Economic Condition)	36	2	0	38
274			Economic History	12	0	0	12
275			Public Finance, Money and Banking	13	1	0	14
276			Commercial Science	7	1	0	8
277			Business Administration	18	3	0	21
278			Accounting	9	0	0	9
			ECONOMICS Total	138	9	0	147
301	SCIENCE		Algebra	19	0	0	19
302			Geometry	16	0	2	18
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	28	0	2	30
305			Basic Analysis	16	0	1	17
306			Larger-area Analysis	8	0	0	8
			Mathematics total	87	0	5	92
311			Astronomy	2	0	0	2
321			Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	31	1	1	33

Table 13. Number of Doctorate Degrees by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Total
322	S C I E N C E		Solid-State Physics I (Optical Properties, Semiconductor and Dielectrics)	21	1	1	23
323			Solid-State Physics II (Magnetism, Metal Physics,	20	0	1	21
324			Physical Properties in General (inclu. Basic Theories)	13	0	2	15
325			Physics in General	11	0	2	13
			Physics total	96	2	7	105
331			Physics of Solid Earth	4	0	0	4
332			Meteorology, Oceanography and Hydrology	7	0	0	7
333			Aeronomy	1	0	0	1
334			Geology	11	0	0	11
335			Stratigraphy and Paleontology	3	0	0	3
336			Mineralogy, Petrology and Study of Mineral Deposit	7	0	0	7
337			Geochemistry	3	0	0	3
			Earth Science total	36	0	0	36
341			Physical Chemistry	33	1	2	36
342			Organic Chemistry	25	0	3	28
343			Inorganic Chemistry	14	1	1	16
344			Function, Properties and Materials in Chemistry	10	0	0	10
345			Substance Transformation	2	0	1	3
346			Separation, Refining and Identification	12	1	0	13
			Chemistry total	96	3	7	106
351			Genetics	13	0	0	13
352			Ecology	21	1	0	22
353			Plant Physiology	35	0	0	35
354			Morphology, Structure of Organism	7	0	0	7
355			Animal Physiology and	10	1	0	11
356			Morphology and Taxonomy	8	1	0	9
			Biology total	94	3	0	97
361			Physical Anthropology (inclu. Physiological Anthropology)	5	0	0	5
	SCIENCE Total			416	8	19	443
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	18	0	2	20
402			Surface Physics	4	0	0	4
403			Applied Optics and Quantum Optics	11	0	1	12
404			General Applied Physics	5	0	0	5
405			Fundamentals of Engineering	4	0	1	5
			Applied Physics·Fundamentals of Engineering total	42	0	4	46
411			Materials for Machines and Strength of Materials	20	0	4	24
412			Workshop Processes and Production Engineering	11	1	3	15
413			Design Engineering, Machine Elements and Tribology	6	0	2	8
414			Fluid Mechanics	15	1	4	20
415			Heat Engineering	13	0	5	18
416			Mechanics and Control Engineering	7	0	3	10
417			Intelligent Mechanics and Machine System	14	0	1	15
			Machine Engineering total	86	2	22	110
421	G		Electric Power Engineering and Electric Machinery	11	0	4	15
422			Electronic and Electric Materials Engineering	10	0	0	10
423			Electron Devices and Apparatus Engineering	20	0	1	21
424			Information and Communication Engineering	49	0	6	55

Table 13. Number of Doctorate Degrees by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Total
425	E N G I N E E R I N G		System Engineering	8	0	0	8
427			Electronic Measurements	7	0	2	9
428			Control Engineering	19	0	2	21
			Electric and Electronic Engineering	124	0	15	139
431			Construction Materials and Dynamics in General Civil Engineering	2	0	0	2
432			Structural Engineering and Seismology	9	0	3	12
433			Ground Engineering	6	0	0	6
434			Hydraulics and River Engineering	4	0	3	7
435			Traffic Engineering and Regional Planning	5	0	0	5
436			Civil Environmental System	7	1	0	8
			Civil Engineering total	33	1	6	40
441		N	Building Structure and Materials	26	0	0	26
442			Building Science and Building Equipment	18	4	1	23
443			City Planning and Building Planning	27	2	1	30
444			Architectural History and Design	7	2	0	9
			Architecture total	78	8	2	88
451		N	Physical Metallurgy	6	0	0	6
452			Inorganic Materials and	3	0	0	3
453		E	Composed Materials and Properties	2	0	0	2
454			Structural and Functional Materials	8	0	1	9
455		R	Metallurgy and Material	5	0	4	9
456			Metal Productive Engineering	2	0	1	3
			Material Engineering total	26	0	6	32
461		I	Chemical Engineering in General	8	0	2	10
462			Reaction and Separation Engineering	7	0	0	7
463			Catalyst and Chemical Process	4	0	0	4
464			Bioengineering	11	0	0	11
465			Industrial Analytical Chemistry	7	0	1	8
			Process Engineering total	37	0	3	40
471			Industrial Physical Chemistry	15	0	2	17
472			Industrial Inorganic Chemistry	3	0	0	3
473			Industrial Organic Chemistry	2	0	0	2
474			Synthetic Chemistry	6	0	1	7
475			Polymer Synthesis	8	0	1	9
476			Polymer Structure and Property (inclu. Fiber)	10	3	1	14
			Industrial Chemistry total	44	3	5	52
481			Aeronautics	5	0	1	6
482			Ship Engineering	4	0	0	4
483			Marine Engineering	2	0	0	2
484			Resource Development Engineering	2	0	2	4
			Synthetic Engineering total	13	0	3	16
			ENGINEERING Total	483	14	66	563
501	A G R I C U L T U R E		Plant Breeding	12	3	0	15
502			Crop Science	4	2	0	6
503			Horticulture and Landscape Architecture	30	4	0	34
504			Plant Protection	7	4	0	11
505			Sericultural Science and Economic Entomology	0	0	0	0
			Agriculture total	53	13	0	66
511			Plant Fertilizer and Manure and Soil Science	8	4	0	12
512			Applied Microbiochemistry and Applied Biochemistry	25	2	0	27
513			Biological Productive Chemistry and Bioorganic Chemistry	13	1	0	14
514			Food Science and Nutritional Chemistry	34	16	0	50

Table 13. Number of Doctorate Degrees by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Total
	A		Agricultural Chemistry total	80	23	0	103
521			Forestry	10	1	0	11
522	G		Wood Science	5	0	0	5
			Forestry total	15	1	0	16
531	R		Fisheries in General	7	0	0	7
532			Fisheries Chemistry	0	1	0	1
			Fisheries total	7	1	0	8
541	I		Agricultural Economics	19	5	0	24
551	C		Irrigation, Drainage and Reclamation Engineering and Rural Planning	4	10	0	14
552	U		Agricultural Machinery	3	2	0	5
553	L		Biological Environment	4	1	0	5
			Agricultural Engineering total	11	13	0	24
561	T		Animal Science and Grassland Science	3	4	0	7
562	U		Applied Animal Science	2	5	0	7
563	R		Basic Veterinary Medicine and Basic Animal Science	12	1	0	13
564			Applied Veterinary Medicine	10	1	0	11
	E		Animal Science·Veterinary Medicine total	27	11	0	38
571			Biological Resource Science	4	0	0	4
572			Applied Molecular Cell Biology	5	0	0	5
			Interdisciplinary Agricultural Science total	9	0	0	9
			AGRICULTURE Total	221	67	0	288
601			Anatomy in General (inclu. Histology, Embryology)	21	3	0	24
602			Physiology in General	16	2	0	18
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	20	2	0	22
604			Pharmacology in General	22	0	0	22
605			Medical Chemistry in General	20	0	0	20
606			Pathological Medical Chemistry	11	0	0	11
	M		Physiology total	110	7	0	117
611			Hominal Pathology	26	1	0	27
612	E		Experimental Pathology	19	1	0	20
613	D		Parasitology (inclu. Medical Zoology)	13	2	0	15
614			Bacteriology (inclu. Eumycetes)	18	5	0	23
615	I		Virology	9	0	0	9
616			Immunology	8	1	0	9
	C		Pathology total	93	10	0	103
621			Hygiene	16	1	0	17
622	I		Public Health and Health Science	55	4	0	59
623			Legal Medicine	15	0	0	15
	N		Social Medicine total	86	5	0	91
631			Internal Medicine in General	29	4	0	33
632	E		Gastroenterology	45	0	0	45
633			Internal Medicine Respiratory System	21	0	0	21
634			Neurological Medicine	21	0	0	21
635			Cardioangiopathy	35	1	0	36
636			Pediatrics	37	1	0	38
637			Dermatology	21	0	0	21
638			Radiology	30	2	0	32
639			Neuropsychiatry	22	2	0	24
641			Hematology	20	1	0	21
642			Internal Medicine of Kidney	12	1	0	13
643			Embryology and Newborn	8	0	0	8
644			Endocrinology	8	0	0	8
645			Metabolic Science	13	1	0	14
			Internal Medicine total	322	13	0	335
651			Surgery in General	27	3	0	30
652			Gastroenterological Surgery	42	0	0	42
653			Thoracic Surgery	15	0	0	15

Table 13. Number of Doctorate Degrees by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subj ect	Subd ivision	I t e m	Universities	Junior Colleges	Colleges of Technology	Total
654	M <						

Table 13. Number of Doctorate Degrees by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Total
773	N		Energy Science General	6	0	0	6
774			Nuclear Power Science	1	0	0	1
	E		Energy total	8	0	0	8
801	R		Environmental Dynamic Analysis	8	1	0	9
802			Environmental Influence Assessment (inclu. Radiobiology)	17	4	1	22
803			Environmental Preservation	16	3	0	19
			Environmental Science total	41	8	1	50
811	I		Biological Organic Chemistry	13	0	0	13
812			Structured Biochemistry	14	1	0	15
813			Functional Biochemistry	18	3	0	21
			Biological Chemistry total	45	4	0	49
821	N		Biophysics	19	0	1	20
822			Molecular Biology	27	2	0	29
823			Cell Biology	25	0	0	25
824			Developmental Biology	13	0	0	13
			Basic Biology total	84	2	1	87
831	A		Neuroanatomy and Neuropathology	12	0	0	12
832			Neurochemistry and Neuropharmacology	13	1	0	14
833			Neuro Science in General	23	1	0	24
834			Neuro and Muscular Physiology	14	0	0	14
			Neuro Science (inclu. Brain Science) total	62	2	0	64
841			Laboratory Animal Science	5	0	0	5
851			Medical Organism Engineering and Material Science of Organism	15	0	3	18
	INTERDISCIPLINARY AREA Total			472	39	13	524
999	WIDE AREA Total			38	1	0	39
	Item n.a. Total			1,685	99	41	1,825
	Grand Total			4,924	322	143	5,389

Table 14. Number of Doctorate Degrees by Field of Specialization / by Institution Type (Private Institutions)

Code	Subj ect	Subd ivision	I t e m	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total	
211	ARTS • HUMANITIES		Philosophy	101	8	0	0	109	
212			Chinese Philosophy	19	0	0	0	19	
213			Indian Philosophy (inclu. Buddhist Studies)	80	7	0	4	91	
214			Religion	103	8	0	0	111	
215			Ethics	9	0	0	0	9	
216			History of Philosophy	38	3	0	0	41	
217			Aesthetics (inclu. Arts)	50	7	0	1	58	
218			Art History	24	2	0	0	26	
			Philosophy total	424	35	0	5	464	
221			Experimental Psychology	130	8	0	1	139	
222			Educational and Social	284	35	0	0	319	
223			Sociology	243	21	0	1	265	
224			Education	146	29	0	0	175	
225			Cultural Anthropology (inclu. Ethnology and Folklore)	97	8	0	0	105	
		Psychology • Sociology • Education Cultural Anthropology total			900	101	0	2	1,003
231			Japanese History	133	12	0	3	148	
232			Oriental History	72	2	0	1	75	
233			European History	70	1	0	0	71	
234			Archaeology (inclu. Prehistory)	33	2	0	1	36	
		History total			308	17	0	5	330
241			Japanese Language	34	6	0	0	40	
242			Japanese Literature	141	16	0	0	157	
243			Chinese Language and Literature	42	0	0	0	42	
244			English Language and Literature	145	11	0	0	156	
245			French Language and Literature	75	4	0	0	79	
246			German Language and Literature	25	0	0	0	25	
247			Other Foreign Languages and Literatures	40	1	0	0	41	
248			Linguistics and Phonetics	174	13	0	0	187	
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	44	1	0	0	45	
		Literature total			720	52	0	0	772
	ARTS•HUMANITIES Total			2,352	205	0	12	2,569	
261	LAW		Basic Science of Law	54	2	0	0	56	
262			Public Law	58	1	0	0	59	
263			International Law	45	0	0	0	45	
264			Civil Law	88	1	0	3	92	
265			Social Law	21	0	0	1	22	
266			Criminal Law	32	0	0	0	32	
267			Politics	190	1	0	0	191	
	LAW Total			488	5	0	4	497	
271	ECONOMICS		General Theory of Economics	229	5	0	0	234	
272			Economical Statistics	46	0	0	0	46	
273			Economic Policy (inclu. Economic Condition)	230	5	0	3	238	
274			Economic History	98	3	0	0	101	
275			Public Finance, Money and Banking	103	1	0	0	104	
276			Commercial Science	87	2	0	0	89	
277			Business Administration	268	10	0	0	278	
278			Accounting	122	1	0	0	123	
	ECONOMICS Total			1,183	27	0	3	1,213	
301	SCIENCE		Algebra	115	1	0	0	116	
302			Geometry	82	3	0	0	85	
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	155	6	1	0	162	
305			Basic Analysis	102	3	0	0	105	
306			Larger-area Analysis	43	1	0	0	44	
		Mathematics total			497	14	1	0	512
311		Astronomy	28	2	0	0	30		
321			Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	191	14	1	0	206	

Table 14. Number of Doctorate Degrees by Field of Specialization / by Institution Type (Private Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total
322	S C I E N C E		Solid-State Physics I (Optical Properties, Semiconductor and Dielectrics)	94	3	1	0	98
323			Solid-State Physics II (Magnetism, Metal Physics,	89	4	0	1	94
324			Physical Properties in General (inclu. Basic Theories)	79	6	0	0	85
325			Physics in General	71	5	0	2	78
			Physics total	524	32	2	3	561
331			Physics of Solid Earth	23	2	0	1	26
332			Meteorology, Oceanography and Hydrology	42	0	1	0	43
333			Aeronomy	14	1	0	0	15
334			Geology	25	0	0	3	28
335			Stratigraphy and Paleontology	6	1	0	2	9
336			Mineralogy, Petrology and Study of Mineral Deposit	16	1	0	0	17
337			Geochemistry	20	0	0	0	20
			Earth Science total	146	5	1	6	158
341			Physical Chemistry	120	5	0	0	125
342			Organic Chemistry	103	3	0	6	112
343			Inorganic Chemistry	66	2	0	0	68
344			Function, Properties and Materials in Chemistry	53	1	0	0	54
345			Substance Transformation	12	0	0	0	12
346			Separation, Refining and Identification	46	4	0	1	51
			Chemistry total	400	15	0	7	422
351			Genetics	28	5	0	1	34
352			Ecology	69	12	0	2	83
353			Plant Physiology	42	4	0	1	47
354			Morphology, Structure of Organism	35	5	0	1	41
355			Animal Physiology and	29	2	0	1	32
356			Morphology and Taxonomy	41	0	0	2	43
			Biology total	244	28	0	8	280
361			Physical Anthropology (inclu. Physiological Anthropology)	34	2	0	0	36
	SCIENCE Total			1,873	98	4	24	1,999
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	53	1	1	1	56
402			Surface Physics	40	1	0	0	41
403			Applied Optics and Quantum	67	4	0	2	73
404			General Applied Physics	32	4	0	2	38
405			Fundamentals of Engineering	30	2	0	0	32
			Applied Physics·Fundamentals of Engineering total	222	12	1	5	240
411			Materials for Machines and Strength of Materials	139	4	1	1	145
412			Workshop Processes and Production Engineering	89	0	1	0	90
413			Design Engineering, Machine Elements and Tribology	64	6	1	1	72
414			Fluid Mechanics	115	5	0	0	120
415			Heat Engineering	101	5	0	0	106
416			Mechanics and Control Engineering	80	3	1	0	84
417			Intelligent Mechanics and Machine System	93	4	0	0	97
			Machine Engineering total	681	27	4	2	714
421			Electric Power Engineering and Electric Machinery	138	6	1	0	145
422			Electronic and Electric Materials Engineering	133	4	0	2	139
423			Electron Devices and Apparatus Engineering	160	2	0	0	162
424			Information and Communication Engineering	287	5	1	1	294
425			System Engineering	64	5	0	0	69

Table 14. Number of Doctorate Degrees by Field of Specialization / by Institution Type (Private Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total
427	E N G I N E E R I N G	E	Electronic Measurements	109	2	1	0	112
428			Control Engineering	70	2	1	0	73
			Electric and Electronic Engineering	961	26	4	3	994
431		C	Construction Materials and Dynamics in General Civil Engineering	56	0	0	0	56
432			Structural Engineering and Seismology	80	7	0	0	87
433			Ground Engineering	56	1	0	1	58
434			Hydraulics and River Engineering	56	1	0	1	58
435			Traffic Engineering and Regional Planning	66	4	0	0	70
436			Civil Environmental System	43	2	0	0	45
			Civil Engineering total	357	15	0	2	374
441		B	Building Structure and Materials	152	6	0	1	159
442			Building Science and Building Equipment	79	3	0	3	85
443			City Planning and Building Planning	203	8	0	0	211
444		A	Architectural History and Design	58	6	0	0	64
			Architecture total	492	23	0	4	519
451		M	Physical Metallurgy	20	0	0	2	22
452			Inorganic Materials and	57	1	0	0	58
453		E	Composed Materials and Properties	18	1	0	0	19
454		E	Structural and Functional Materials	28	1	0	2	31
455		R	Metallurgy and Material	56	3	0	0	59
456			Metal Productive Engineering	15	0	0	0	15
			Material Engineering total	194	6	0	4	204
461		C	Chemical Engineering in General	31	0	0	0	31
462			Reaction and Separation Engineering	14	0	0	0	14
463			Catalyst and Chemical Process	20	1	0	0	21
464			Bioengineering	46	0	0	2	48
465			Industrial Analytical Chemistry	28	1	0	0	29
			Process Engineering total	139	2	0	2	143
471		I	Industrial Physical Chemistry	33	0	0	0	33
472			Industrial Inorganic Chemistry	15	0	0	0	15
473			Industrial Organic Chemistry	23	3	0	0	26
474			Synthetic Chemistry	38	0	0	2	40
475			Polymer Synthesis	33	1	0	1	35
476			Polymer Structure and Property (inclu. Fiber)	38	10	0	0	48
			Industrial Chemistry total	180	14	0	3	197
481		S	Aeronautics	24	0	0	0	24
482			Ship Engineering	9	0	0	0	9
483			Marine Engineering	11	0	0	0	11
484			Resource Development Engineering	13	0	0	0	13
			Synthetic Engineering total	57	0	0	0	57
			ENGINEERING Total	3,283	125	9	25	3,442
501	A G R I C U L T U R E	P	Plant Breeding	18	1	0	2	21
502			Crop Science	13	2	0	0	15
503			Horticulture and Landscape Architecture	47	14	0	1	62
504			Plant Protection	25	2	0	0	27
505			Sericultural Science and Economic Entomology	10	3	0	5	18
			Agriculture total	113	22	0	8	143
511		S	Plant Fertilizer and Manure and Soil Science	18	2	0	0	20
512			Applied Microbiochemistry and Applied Biochemistry	123	14	0	6	143
513			Biological Productive Chemistry and Bioorganic Chemistry	22	5	0	2	29
514			Food Science and Nutritional Chemistry	131	70	0	1	202
			Agricultural Chemistry total	294	91	0	9	394

Table 14. Number of Doctorate Degrees by Field of Specialization / by Institution Type (Private Institutions)

Code	Subj ect	Subd ivision	I t e m	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total	
521	G		Forestry	20	2	0	0	22	
522			Wood Science	10	0	0	1	11	
			Forestry total	30	2	0	1	33	
531	R		Fisheries in General	54	0	0	1	55	
532			Fisheries Chemistry	22	4	0	1	27	
			Fisheries total	76	4	0	2	82	
541	I		Agricultural Economics	67	4	0	0	71	
551	C		Irrigation, Drainage and Reclamation Engineering and Rural Planning	18	2	0	0	20	
552			Agricultural Machinery	7	4	0	0	11	
553			Biological Environment	5	0	0	0	5	
	L		Agricultural Engineering total	30	6	0	0	36	
561	T		Animal Science and Grassland Science	27	1	0	0	28	
562			Applied Animal Science	23	0	0	1	24	
563			Basic Veterinary Medicine and Basic Animal Science	58	2	0	8	68	
564	R		Applied Veterinary Medicine	71	0	0	5	76	
			Animal Science·Veterinary Medicine total	179	3	0	14	196	
571			Biological Resource Science	9	0	0	0	9	
572			Applied Molecular Cell Biology	13	0	0	0	13	
	E		Interdisciplinary Agricultural Science total	22	0	0	0	22	
	AGRICULTURE Total			811	132	0	34	977	
601	M		Anatomy in General (inclu. Histology, Embryology)	121	9	0	1	131	
602			Physiology in General	128	6	0	0	134	
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	82	12	0	0	94	
604			Pharmacology in General	118	8	0	0	126	
605			Medical Chemistry in General	74	10	0	1	85	
606			Pathological Medical Chemistry	33	2	0	1	36	
			Physiology total	556	47	0	3	606	
611		E		Hominal Pathology	162	4	0	5	171
612				Experimental Pathology	42	5	0	5	52
613				Parasitology (inclu.Medical Zoology)	38	5	0	0	43
614		D		Bacteriology (inclu. Eumycetes)	97	6	0	2	105
615				Virology	36	1	0	4	41
616				Immunology	103	3	0	6	112
		C		Pathology total	478	24	0	22	524
621		I		Hygiene	92	9	0	7	108
622				Public Health and Health Science	201	29	0	2	232
623				Legal Medicine	58	0	0	0	58
	N		Social Medicine total	351	38	0	9	398	
631	E		Internal Medicine in General	170	1	0	1	172	
632			Gastroenterology	194	1	0	3	198	
633			Internal Medicine Respiratory System	93	1	0	2	96	
634			Neurological Medicine	119	0	0	0	119	
635			Cardioangiology	231	2	0	4	237	
636			Pediatrics	178	4	0	1	183	
637			Dermatology	77	2	0	0	79	
638			Radiology	185	9	0	3	197	
639			Neuropsychiatry	170	6	0	0	176	
641			Hematology	128	2	0	1	131	
642			Internal Medicine of Kidney	84	2	0	2	88	
643			Embryology and Newborn	17	0	0	0	17	
644			Endocrinology	64	0	0	1	65	
645			Metabolic Science	76	1	0	1	78	
			Internal Medicine total	1,786	31	0	19	1,836	
651			Surgery in General	188	0	0	1	189	
652			Gastroenterological Surgery	154	0	0	3	157	
653			Thoracic Surgery	139	1	0	1	141	
654			Neurosurgery	136	0	0	0	136	

Table 14. Number of Doctorate Degrees by Field of Specialization / by Institution Type (Private Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total
655	M		Orthopedic Surgery	195	4	0	1	200
656			Anesthesiology and Rescue Medicine	132	1	0	1	134
657			Urology	96	0	0	1	97
658			Obstetrics and Gynecology	150	1	0	1	152
659			Oto-rhino-laryngology	103	0	0	1	104
660			Ophthalmology	108	0	0	0	108
661			Pediatric Surgery	26	0	0	0	26
662			Formative Surgery	40	0	0	0	40
			Surgery total	1,467	7	0	10	1,484
671	E		Oral Anatomy and Morphological Basic Dentistry	139	2	0	0	141
672	D		Functional Basic Dentistry	115	3	0	0	118
673	I		Morbid Dentistry (inclu. Dental Radiology)	104	0	0	0	104
674	C		Conservative Dentistry	186	10	0	0	196
675			Prosthodontics and Dental Technology	237	4	0	0	241
676	I		Oral Surgery	238	3	0	0	241
677	N		Orthodontics, Pedodontics and Social Dentistry	221	3	0	0	224
678			Periodontological Dentistry	45	1	0	0	46
	E		Dentistry total	1,285	26	0	0	1,311
681			Chemical Pharmaceuticals	270	1	0	6	277
682			Physical Pharmaceuticals	113	1	0	0	114
683			Biopharmaceutics	285	3	0	3	291
684			Molecular Pharmaceuticals	61	1	0	1	63
685			Environmental Pharmaceuticals	35	0	0	0	35
			Pharmaceutics total	764	6	0	10	780
691			Medical Sociology	65	2	0	1	68
692			Human Genetics	30	1	0	1	32
693			Applied Pharmacology and Medical Pharmacology	85	1	0	0	86
694			Pathological Examination	46	5	0	0	51
696			Science of Basic and Local Nursing	27	5	0	0	32
697			Science of Clinical Nursing	33	5	0	0	38
			Medicine in General total	286	19	0	2	307
			MEDICINE Total	6,973	198	0	75	7,246
702	I N T E R D I S C I P L I N A R Y		History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	32	0	0	0	32
703			Physical Education	117	9	0	0	126
704			Human Geography	73	1	0	1	75
705			Physical Geography	32	1	0	0	33
			Geography total	105	2	0	1	108
706			Home Science(inclu. Cloth/Living Environments)	80	26	0	0	106
707			Food Culture	72	53	0	0	125
			Domestic Science total	152	79	0	0	231
708			Science of Cultural Property	2	0	0	0	2
711			Science Education	32	6	0	0	38
712	A R E A		Educational Engineering	53	6	0	0	59
713			Curriculum Studies	25	5	0	0	30
714			Japanese Language Education	12	0	0	1	13
			Science Education·Curriculum Education total	122	17	0	1	140
721			Statistics	49	0	0	0	49
731			Computer Science	212	4	1	0	217
732			Intelligent Informatics	201	8	0	0	209
733			Study of Information System (Inclu. Library and Information Science)	122	7	0	1	130
			Information Science total	535	19	1	1	556
741			Social System Engineering	134	2	0	0	136
751	I N		Natural Disaster Science	8	0	0	2	10
761			Plasma Science and Technology	30	1	0	2	33
772			Nuclear Fusion	9	1	0	1	11
773			Energy Science General	15	1	0	0	16

Table 14. Number of Doctorate Degrees by Field of Specialization / by Institution Type (Private Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total
774	T E		Nuclear Power Science	18	0	0	0	18
			Energy total	42	2	0	1	45
801	R D		Environmental Dynamic Analysis	44	3	0	0	47
802			Environmental Influence Assessment (inclu. Radiobiology)	43	2	0	3	48
803	S C		Environmental Preservation	82	4	0	1	87
			Environmental Science total	169	9	0	4	182
811	I P		Biological Organic Chemistry	40	2	0	4	46
812			Structured Biochemistry	47	1	0	2	50
813	L I		Functional Biochemistry	71	5	0	0	76
			Biological Chemistry total	158	8	0	6	172
821	N A		Biophysics	49	1	0	0	50
822			Molecular Biology	128	7	0	7	142
823	R Y		Cell Biology	84	2	0	11	97
824			Developmental Biology	28	0	0	2	30
			Basic Biology total	289	10	0	20	319
831	A R		Neuroanatomy and Neuropathology	46	1	0	0	47
832			Neurochemistry and Neuropharmacology	49	0	0	2	51
833	E A		Neuro Science in General	76	4	0	2	82
834			Neuro and Muscular Physiology	66	4	0	0	70
			Neuro Science (inclu. Brain Science) total	237	9	0	4	250
841			Laboratory Animal Science	19	0	0	5	24
851			Medical Organism Engineering and Material Science of Organism	123	8	0	2	133
			INTERDISCIPLINARY AREA Total	2,323	175	1	49	2,548
999			WIDE AREA Total	293	22	0	1	316
			Item n.a. Total	9,303	423	19	176	9,921
			Grand Total	28,882	1,410	33	403	30,728

Table 15. Number of Research Topics by Field of Specialization / by Institution Type (Japan)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Private Scientific Research Institutes	Total
211	ARTS • HUMANITIES		Philosophy	1,078	86	32	0	2	0	1,198
212			Chinese Philosophy	235	13	21	0	1	0	270
213			Indian Philosophy (inclu. Buddhist Studies)	424	79	8	0	0	18	529
214			Religion	559	78	6	0	0	1	644
215			Ethics	307	18	4	0	3	0	332
216			History of Philosophy	462	36	14	0	0	2	514
217			Aesthetics (inclu. Arts)	2,090	608	9	0	16	4	2,727
218			Art History	526	46	0	0	42	10	624
		Philosophy total	5,681	964	94	0	64	35	6,838	
221			Experimental Psychology	1,078	55	3	11	3	2	1,152
222			Educational and Social	3,323	547	3	10	48	3	3,934
223			Sociology	3,502	510	0	5	7	9	4,033
224			Education	3,090	710	43	27	95	17	3,982
225			Cultural Anthropology (inclu. Ethnology and Folklore)	976	106	0	3	8	3	1,096
		Psychology • Sociology • Education Cultural Anthropology total	11,969	1,928	49	56	161	34	14,197	
231			Japanese History	1,006	79	38	3	9	21	1,156
232			Oriental History	669	21	12	0	2	6	710
233			European History	883	70	11	0	2	3	969
234			Archaeology (inclu. Prehistory)	379	16	3	0	38	17	453
		History total	2,937	186	64	3	51	47	3,288	
241			Japanese Language	626	68	8	0	20	0	722
242			Japanese Literature	1,649	334	95	0	2	0	2,080
243			Chinese Language and Literature	660	32	13	0	0	0	705
244			English Language and Literature	3,939	694	153	0	1	0	4,787
245			French Language and Literature	956	76	18	0	0	0	1,050
246			German Language and Literature	947	10	13	0	0	0	970
247			Other Foreign Languages and Literatures	787	45	23	0	0	0	855
248			Linguistics and Phonetics	1,863	207	62	0	19	0	2,151
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	542	47	7	0	0	0	596
			Literature total	11,969	1,513	392	0	42	0	13,916
	ARTS • HUMANITIES Total	32,556	4,591	599	59	318	116	38,239		
261	LAW	Basic Science of Law	552	17	4	0	0	0	573	
262		Public Law	738	42	3	0	0	0	783	
263		International Law	473	4	8	0	0	0	485	
264		Civil Law	1,152	49	1	1	0	5	1,208	
265		Social Law	305	14	2	0	0	3	324	
266		Criminal Law	310	14	0	0	0	3	327	
267		Politics	1,735	47	12	0	3	0	1,797	
	LAW Total	5,265	187	30	1	3	11	5,497		
271	ECONOMICS	General Theory of Economics	1,723	80	13	0	0	3	1,819	
272		Economical Statistics	332	4	0	0	0	3	339	
273		Economic Policy (inclu. Economic Condition)	2,110	83	10	0	0	19	2,222	
274		Economic History	692	25	3	0	0	3	723	
275		Public Finance, Money and Banking	895	40	0	0	0	0	935	
276		Commercial Science	775	75	5	0	0	0	855	
277		Business Administration	2,023	208	6	0	0	0	2,237	
278		Accounting	1,000	96	1	0	0	0	1,097	
	ECONOMICS Total	9,550	611	38	0	0	28	10,227		
301	SCIENCE	Algebra	618	8	47	0	0	0	673	
302		Geometry	507	9	66	0	0	3	585	
304		Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	844	30	70	3	0	0	947	
305		Basic Analysis	509	7	42	0	0	0	558	
306		Larger-area Analysis	254	1	14	0	0	0	269	
		Mathematics total	2,732	55	239	3	0	3	3,032	
311		Astronomy	309	7	16	69	3	0	404	
321		Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	1,166	35	29	116	2	0	1,348	

Table 15. Number of Research Topics by Field of Specialization / by Institution Type (Japan)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Private Scientific Research Institutes	Total
322	S C I E N C E		Solid-State Physics I (Optical Properties, Semiconductor and Dielectrics)	767	8	39	11	0	0	825
323			Solid-State Physics II (Magnetism, Metal Physics,	750	5	30	7	0	1	793
324			Physical Properties in General (inclu. Basic Theories)	524	11	37	11	0	0	583
325			Physics in General	540	10	25	22	0	1	598
			Physics total	3,747	69	160	167	2	2	4,147
331			Physics of Solid Earth	436	4	3	15	0	2	460
332			Meteorology, Oceanography and Hydrology	561	0	19	3	0	0	583
333			Aeronomy	149	2	6	0	0	0	157
334			Geology	344	2	2	0	6	11	365
335			Stratigraphy and Paleontology	167	3	0	0	5	4	179
336			Mineralogy, Petrology and Study of Mineral Deposit	388	2	0	0	6	0	396
337			Geochemistry	251	3	3	0	0	0	257
			Earth Science total	2,296	16	33	18	17	17	2,397
341			Physical Chemistry	1,064	15	30	59	3	0	1,171
342			Organic Chemistry	895	6	44	10	0	12	967
343			Inorganic Chemistry	538	7	19	7	3	0	574
344			Function, Properties and Materials in Chemistry	498	5	20	9	0	0	532
345			Substance Transformation	120	0	3	0	0	0	123
346			Separation, Refining and Identification	350	6	14	4	0	2	376
			Chemistry total	3,465	39	130	89	6	14	3,743
351			Genetics	370	7	0	11	3	6	397
352			Ecology	779	38	2	0	10	19	848
353			Plant Physiology	456	11	3	18	0	3	491
354			Morphology, Structure of Organism	279	10	6	12	5	5	317
355			Animal Physiology and	280	12	0	4	0	1	297
356			Morphology and Taxonomy	395	9	1	3	51	8	467
			Biology total	2,559	87	12	48	69	42	2,817
361			Physical Anthropology (inclu. Physiological Anthropology)	206	4	0	0	0	0	210
			SCIENCE Total	15,314	277	590	394	97	78	16,750
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	476	2	28	0	0	1	507
402			Surface Physics	321	2	15	2	0	0	340
403			Applied Optics and Quantum Optics	504	8	40	10	0	6	568
404			General Applied Physics	269	10	23	10	0	13	325
405			Fundamentals of Engineering	184	5	20	0	0	0	209
			Applied Physics·Fundamentals of Engineering total	1,754	27	126	22	0	20	1,949
411			Materials for Machines and Strength of Materials	914	12	131	0	0	1	1,058
412			Workshop Processes and Production Engineering	673	8	126	1	0	0	808
413			Design Engineering, Machine Elements and Tribology	449	30	59	3	0	4	545
414			Fluid Mechanics	841	15	139	0	0	0	995
415			Heat Engineering	846	25	126	2	0	0	999
416			Mechanics and Control Engineering	583	15	131	0	0	0	729
417			Intelligent Mechanics and Machine System	731	14	65	3	1	0	814
			Machine Engineering total	5,037	119	777	9	1	5	5,948
421			Electric Power Engineering and Electric Machinery	783	17	156	3	0	0	959
422			Electronic and Electric Materials Engineering	870	12	93	0	0	5	980
423			Electron Devices and Apparatus Engineering	892	9	86	1	0	0	988
424			Information and Communication Engineering	1,673	41	195	8	0	2	1,919

Table 15. Number of Research Topics by Field of Specialization / by Institution Type (Japan)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Private Scientific Research Institutes	Total
425	E		System Engineering	373	14	22	2	2	0	413
427			Electronic Measurements	625	9	99	0	0	1	734
428			Control Engineering	610	11	106	0	1	3	731
			Electric and Electronic Engineering	5,826	113	757	14	3	11	6,724
431			Construction Materials and Dynamics in General Civil Engineering	377	0	50	0	0	0	427
432			Structural Engineering and Seismology	543	19	55	0	0	0	617
433			Ground Engineering	536	1	59	3	0	2	601
434			Hydraulics and River Engineering	557	4	59	0	0	4	624
435			Traffic Engineering and Regional Planning	461	15	37	0	0	0	513
436			Civil Environmental System	431	6	46	0	0	0	483
			Civil Engineering total	2,905	45	306	3	0	6	3,265
441		N	Building Structure and Materials	888	14	37	0	1	2	942
442			Building Science and Building Equipment	491	31	25	0	0	6	553
443			City Planning and Building Planning	1,276	78	67	0	0	1	1,422
444			Architectural History and Design	535	53	24	0	5	0	617
			Architecture total	3,190	176	153	0	6	9	3,534
451		N	Physical Metallurgy	351	3	36	0	0	6	396
452			Inorganic Materials and	595	3	48	3	0	0	649
453		E	Composed Materials and Properties	197	3	19	0	2	0	221
454		E	Structural and Functional Materials	442	8	26	0	0	4	480
455		R	Metallurgy and Material	539	10	50	0	0	0	599
456			Metal Productive Engineering	235	2	13	0	0	0	250
			Material Engineering total	2,359	29	192	3	2	10	2,595
461		N	Chemical Engineering in General	432	0	36	0	0	0	468
462			Reaction and Separation Engineering	273	0	9	0	0	0	282
463			Catalyst and Chemical Process	260	3	8	3	0	0	274
464			Bioengineering	502	3	25	0	0	4	534
465			Industrial Analytical Chemistry	246	4	32	0	0	0	282
			Process Engineering total	1,713	10	110	3	0	4	1,840
471			Industrial Physical Chemistry	383	0	17	0	0	0	400
472			Industrial Inorganic Chemistry	198	1	22	0	0	0	221
473			Industrial Organic Chemistry	180	8	13	0	0	0	201
474			Synthetic Chemistry	431	0	31	1	0	4	467
475			Polymer Synthesis	385	2	22	1	0	1	411
476			Polymer Structure and Property (inclu. Fiber)	420	36	12	1	0	1	470
			Industrial Chemistry total	1,997	47	117	3	0	6	2,170
481			Aeronautics	255	0	9	0	0	0	264
482			Ship Engineering	207	0	31	0	0	0	238
483			Marine Engineering	87	0	5	0	0	0	92
484			Resource Development Engineering	194	0	12	0	0	0	206
			Synthetic Engineering total	743	0	57	0	0	0	800
			ENGINEERING Total	25,524	566	2,595	57	12	71	28,825
501	A		Plant Breeding	241	9	2	0	3	4	259
502			Crop Science	229	10	3	0	0	3	245
503			Horticulture and Landscape Architecture	546	43	1	0	6	3	599
504			Plant Protection	295	20	0	0	0	1	316
505			Sericultural Science and Economic Entomology	101	3	0	0	0	15	119
			Agriculture total	1,412	85	6	0	9	26	1,538
511			Plant Fertilizer and Manure and Soil Science	278	19	1	0	1	0	299
512			Applied Microbiochemistry and Applied Biochemistry	835	40	18	0	0	14	907
513			Biological Productive Chemistry and Bioorganic Chemistry	265	12	3	0	0	3	283
514			Food Science and Nutritional Chemistry	895	300	11	0	0	3	1,209

Table 15. Number of Research Topics by Field of Specialization / by Institution Type (Japan)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Private Scientific Research Institutes	Total
	A		Agricultural Chemistry total	2,273	371	33	0	1	20	2,698
521			Forestry	588	4	1	0	0	0	593
522	G		Wood Science	336	3	2	0	0	0	341
			Forestry total	924	7	3	0	0	0	934
531	R		Fisheries in General	620	0	0	0	0	6	626
532			Fisheries Chemistry	219	7	2	0	0	1	229
			Fisheries total	839	7	2	0	0	7	855
541	I		Agricultural Economics	541	23	0	0	0	0	564
551	C		Irrigation, Drainage and Reclamation Engineering and Rural Planning	360	24	3	0	0	0	387
552	U		Agricultural Machinery	251	19	2	0	0	0	272
553	L		Biological Environment	116	4	2	0	0	0	122
			Agricultural Engineering total	727	47	7	0	0	0	781
561	T		Animal Science and Grassland Science	288	18	0	0	0	0	306
562	U		Applied Animal Science	282	13	0	0	0	2	297
563	R		Basic Veterinary Medicine and Basic Animal Science	435	8	0	0	3	14	460
564			Applied Veterinary Medicine	439	2	0	0	0	14	455
	E		Animal Science·Veterinary Medicine total	1,444	41	0	0	3	30	1,518
571			Biological Resource Science	147	0	0	0	0	0	147
572			Applied Molecular Cell Biology	130	1	5	0	0	0	136
			Interdisciplinary Agricultural Science total	277	1	5	0	0	0	283
			AGRICULTURE Total	8,437	582	56	0	13	83	9,171
601			Anatomy in General (inclu. Histology, Embryology)	657	24	0	5	0	2	688
602			Physiology in General	678	22	0	18	0	0	718
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	449	61	5	0	0	0	515
604			Pharmacology in General	540	16	0	4	0	0	560
605			Medical Chemistry in General	494	21	3	3	0	0	521
606			Pathological Medical Chemistry	277	9	0	0	0	3	289
	M		Physiology total	3,095	153	8	30	0	5	3,291
611			Hominal Pathology	742	17	0	0	0	8	767
612	E		Experimental Pathology	359	16	0	0	0	13	388
613	D		Parasitology (inclu. Medical Zoology)	274	16	0	0	1	0	291
614			Bacteriology (inclu. Eumycetes)	482	27	2	0	0	10	521
615	I		Virology	320	2	0	0	0	22	344
616			Immunology	587	11	0	0	0	16	614
	C		Pathology total	2,764	89	2	0	1	69	2,925
621			Hygiene	480	29	0	0	0	17	526
622	I		Public Health and Health Science	1,341	172	3	0	1	7	1,524
623			Legal Medicine	382	2	0	0	0	0	384
	N		Social Medicine total	2,203	203	3	0	1	24	2,434
631			Internal Medicine in General	823	24	0	0	0	2	849
632	E		Gastroenterology	928	2	0	0	0	9	939
633			Internal Medicine Respiratory System	467	4	0	0	0	4	475
634			Neurological Medicine	610	1	0	3	0	3	617
635			Cardioangiopathy	1,009	10	0	0	0	2	1,021
636			Pediatrics	949	23	0	0	0	2	974
637			Dermatology	511	4	0	0	0	0	515
638			Radiology	1,056	29	0	1	0	6	1,092
639			Neuropsychiatry	916	29	0	0	3	0	948
641			Hematology	613	9	0	0	0	4	626
642			Internal Medicine of Kidney	408	13	0	0	0	4	425
643			Embryology and Newborn	77	0	0	0	0	0	77
644			Endocrinology	359	0	0	0	0	2	361
645			Metabolic Science	396	2	0	0	0	1	399
			Internal Medicine total	9,122	150	0	4	3	39	9,318
651			Surgery in General	749	4	0	0	0	0	753
652			Gastroenterological Surgery	803	0	0	0	0	7	810
653			Thoracic Surgery	547	0	0	0	0	4	551

Table 15. Number of Research Topics by Field of Specialization / by Institution Type (Japan)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Private Scientific Research Institutes	Total
654	M		Neurosurgery	655	0	0	0	0	0	655
655			Orthopedic Surgery	1,162	17	0	0	0	3	1,182
656			Anesthesiology and Rescue Medicine	791	4	0	0	0	2	797
657			Urology	547	0	0	0	0	4	551
658			Obstetrics and Gynecology	716	9	0	0	0	3	728
659			Oto-rhino-laryngology	535	0	0	0	0	1	536
660			Ophthalmology	543	0	0	0	0	3	546
661			Pediatric Surgery	163	1	0	0	0	0	164
662			Formative Surgery	147	0	0	0	0	0	147
			Surgery total	7,358	35	0	0	0	27	7,420
671	E		Oral Anatomy and Morphological Basic Dentistry	551	6	0	0	0	0	557
672	D		Functional Basic Dentistry	421	7	0	0	0	0	428
673	I		Morbid Dentistry (inclu. Dental Radiology)	415	0	0	0	0	0	415
674	C		Conservative Dentistry	665	24	0	0	0	0	689
675			Prosthodontics and Dental Technology	1,009	13	0	0	0	0	1,022
676	I		Oral Surgery	1,135	7	0	0	0	2	1,144
677	N		Orthodontics, Pedodontics and Social Dentistry	1,036	31	0	0	0	0	1,067
678			Periodontological Dentistry	253	5	0	0	0	0	258
	E		Dentistry total	5,485	93	0	0	0	2	5,580
681			Chemical Pharmaceutics	895	3	1	0	0	9	908
682			Physical Pharmaceutics	416	2	0	0	0	1	419
683			Biopharmaceutics	1,023	6	3	0	0	12	1,044
684			Molecular Pharmaceutics	296	3	0	0	0	1	300
685			Environmental Pharmaceutics	128	0	3	0	0	0	131
			Pharmaceutics total	2,758	14	7	0	0	23	2,802
691			Medical Sociology	470	19	3	0	0	2	494
692			Human Genetics	241	15	0	0	0	3	259
693			Applied Pharmacology and Medical Pharmacology	352	1	0	0	0	0	353
694			Pathological Examination	330	39	0	0	0	0	369
696			Science of Basic and Local Nursing	1,064	234	3	0	0	0	1,301
697			Science of Clinical Nursing	1,317	223	0	0	0	0	1,540
			Medicine in General total	3,774	531	6	0	0	5	4,316
			MEDICINE Total	36,559	1,268	26	34	5	194	38,086
702	I N T E R D I S C I P L I N A R Y		History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	260	3	9	2	13	0	287
703			Physical Education	2,504	377	109	0	0	0	2,990
704			Human Geography	528	14	14	0	2	11	569
705			Physical Geography	306	13	3	0	0	0	322
			Geography total	834	27	17	0	2	11	891
706			Home Science (inclu. Cloth/Living Environments)	796	537	5	0	0	0	1,338
707			Food Culture	501	464	0	0	0	0	965
			Domestic Science total	1,297	1,001	5	0	0	0	2,303
708			Science of Cultural Property	59	3	1	0	10	0	73
711			Science Education	393	46	43	0	21	0	503
712	A R E A		Educational Engineering	567	106	56	26	10	0	765
713			Curriculum Studies	1,629	421	92	0	19	0	2,161
714			Japanese Language Education	444	17	3	0	11	23	498
			Science Education · Curriculum Education total	3,033	590	194	26	61	23	3,927
721			Statistics	273	8	0	6	0	0	287
731			Computer Science	1,489	69	116	0	2	0	1,676
732			Intelligent Informatics	1,470	63	91	4	4	0	1,632
733			Study of Information System (Inclu. Library and Information Science)	1,069	135	34	6	4	10	1,258
			Information Science total	4,028	267	241	10	10	10	4,566
741			Social System Engineering	806	27	10	0	1	0	844
751	I		Natural Disaster Science	101	2	5	0	0	3	111
761			Plasma Science and Technology	373	2	18	0	0	3	396
772			Nuclear Fusion	119	3	3	0	0	3	128

Table 15. Number of Research Topics by Field of Specialization / by Institution Type (Japan)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Private Scientific Research Institutes	Total
773	N T E R D I S C I P L I N A R Y A R E A		Energy Science General	209	2	7	0	0	0	218
774			Nuclear Power Science	339	1	4	5	0	0	349
			Energy total	667	6	14	5	0	3	695
801			Environmental Dynamic Analysis	406	11	3	0	0	0	420
802			Environmental Influence Assessment (inclu. Radiobiology)	381	16	15	0	0	7	419
803			Environmental Preservation	606	25	18	0	0	4	653
			Environmental Science total	1,393	52	36	0	0	11	1,492
811			Biological Organic Chemistry	354	4	5	0	0	8	371
812			Structured Biochemistry	328	2	1	1	0	5	337
813			Functional Biochemistry	480	16	3	0	0	0	499
			Biological Chemistry total	1,162	22	9	1	0	13	1,207
821	A R E A		Biophysics	427	3	8	17	0	0	455
822			Molecular Biology	962	21	4	17	0	12	1,016
823			Cell Biology	604	5	0	7	0	18	634
824			Developmental Biology	316	0	2	14	0	6	338
			Basic Biology total	2,309	29	14	55	0	36	2,443
831			Neuroanatomy and Neuropathology	279	2	0	2	0	0	283
832			Neurochemistry and Neuropharmacology	298	3	0	2	0	2	305
833			Neuro Science in General	546	18	0	32	0	1	597
834			Neuro and Muscular Physiology	395	13	0	14	0	0	422
			Neuro Science (inclu. Brain Science) total	1,518	36	0	50	0	3	1,607
841			Laboratory Animal Science	149	0	1	1	0	31	182
851			Medical Organism Engineering and Material Science of Organism	823	23	44	0	0	3	893
			INTERDISCIPLINARY AREA Total	21,589	2,475	727	156	97	150	25,194
999			WIDE AREA Total	2,453	368	44	4	11	12	2,892
			Item n.a. Total	65,268	3,669	2,431	310	246	359	72,283
			Grand Total	222,515	14,594	7,136	1,015	802	1,102	247,164

Table 16. Number of Research Topics by Field of Specialization / by Institution Type (National Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Total
211	ARTS • HUMANITIES		Philosophy	379	0	28	0	2	409
212			Chinese Philosophy	89	0	18	0	1	108
213			Indian Philosophy (inclu. Buddhist Studies)	60	0	8	0	0	68
214			Religion	71	0	5	0	0	76
215			Ethics	154	0	4	0	3	161
216			History of Philosophy	129	0	14	0	0	143
217			Aesthetics (inclu. Arts)	610	23	0	0	16	649
218			Art History	192	3	0	0	42	237
		Philosophy total	1,684	26	77	0	64	1,851	
221			Experimental Psychology	464	0	3	11	3	481
222			Educational and Social	1,143	1	3	10	48	1,205
223			Sociology	661	3	0	5	7	676
224			Education	1,374	3	40	27	95	1,539
225			Cultural Anthropology (inclu. Ethnology and Folklore)	332	0	0	3	8	343
		Psychology • Sociology • Education Cultural Anthropology total	3,974	7	46	56	161	4,244	
231			Japanese History	362	0	31	3	9	405
232			Oriental History	256	0	10	0	2	268
233			European History	277	0	11	0	2	290
234			Archaeology (inclu. Prehistory)	156	0	3	0	38	197
		History total	1,051	0	55	3	51	1,160	
241			Japanese Language	228	0	8	0	20	256
242			Japanese Literature	358	0	85	0	2	445
243			Chinese Language and Literature	202	4	13	0	0	219
244			English Language and Literature	862	6	143	0	1	1,012
245			French Language and Literature	273	0	18	0	0	291
246			German Language and Literature	340	0	12	0	0	352
247			Other Foreign Languages and Literatures	275	0	23	0	0	298
248			Linguistics and Phonetics	548	3	53	0	19	623
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	163	0	7	0	0	170
		Literature total	3,249	13	362	0	42	3,666	
	ARTS • HUMANITIES Total			9,958	46	540	59	318	10,921
261	LAW	Basic Science of Law	199	0	4	0	0	203	
262		Public Law	209	0	3	0	0	212	
263		International Law	103	0	8	0	0	111	
264		Civil Law	332	2	1	1	0	336	
265		Social Law	103	0	2	0	0	105	
266		Criminal Law	81	0	0	0	0	81	
267		Politics	492	0	10	0	3	505	
	LAW Total			1,519	2	28	1	3	1,553
271	ECONOMICS	General Theory of Economics	496	2	13	0	0	511	
272		Economical Statistics	105	0	0	0	0	105	
273		Economic Policy (inclu. Economic Condition)	520	0	8	0	0	528	
274		Economic History	184	0	0	0	0	184	
275		Public Finance, Money and Banking	207	0	0	0	0	207	
276		Commercial Science	74	0	5	0	0	79	
277		Business Administration	316	3	6	0	0	325	
278		Accounting	184	4	1	0	0	189	
	ECONOMICS Total			2,086	9	33	0	0	2,128
301	SCIENCE		Algebra	324	0	44	0	0	368
302			Geometry	333	0	57	0	0	390
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	432	0	55	3	0	490
305			Basic Analysis	292	0	39	0	0	331
306			Larger-area Analysis	160	0	14	0	0	174
		Mathematics total	1,541	0	209	3	0	1,753	
311		Astronomy	245	0	13	69	3	330	
321		Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	734	0	21	116	2	873	

Table 16. Number of Research Topics by Field of Specialization / by Institution Type (National Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Total
322	S C I E N C E		Solid-State Physics I (Optical Properties, Semiconductor and Dielectrics)	490	0	34	11	0	535
323			Solid-State Physics II (Magnetism, Metal Physics,	526	0	26	7	0	559
324			Physical Properties in General (inclu. Basic Theories)	331	0	28	11	0	370
325			Physics in General	332	0	22	22	0	376
			Physics total	2,413	0	131	167	2	2,713
331			Physics of Solid Earth	371	0	3	15	0	389
332			Meteorology, Oceanography and Hydrology	429	0	18	3	0	450
333			Aeronomy	107	0	6	0	0	113
334			Geology	256	0	2	0	6	264
335			Stratigraphy and Paleontology	135	0	0	0	5	140
336			Mineralogy, Petrology and Study of Mineral Deposit	331	0	0	0	6	337
337			Geochemistry	198	0	3	0	0	201
			Earth Science total	1,827	0	32	18	17	1,894
341			Physical Chemistry	715	0	26	59	3	803
342			Organic Chemistry	602	0	37	10	0	649
343			Inorganic Chemistry	341	0	18	7	3	369
344			Function, Properties and Materials in Chemistry	335	0	20	9	0	364
345			Substance Transformation	83	0	1	0	0	84
346			Separation, Refining and Identification	209	0	14	4	0	227
			Chemistry total	2,285	0	116	89	6	2,496
351			Genetics	276	0	0	11	3	290
352			Ecology	545	0	2	0	10	557
353			Plant Physiology	294	0	3	18	0	315
354			Morphology, Structure of Organism	175	0	6	12	5	198
355			Animal Physiology and	194	0	0	4	0	198
356			Morphology and Taxonomy	280	0	1	3	51	335
			Biology total	1,764	0	12	48	69	1,893
361			Physical Anthropology (inclu. Physiological Anthropology)	104	0	0	0	0	104
	SCIENCE Total			10,179	0	513	394	97	11,183
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	318	0	21	0	0	339
402			Surface Physics	219	0	15	2	0	236
403			Applied Optics and Quantum Optics	308	0	39	10	0	357
404			General Applied Physics	175	0	23	10	0	208
405			Fundamentals of Engineering	108	0	17	0	0	125
			Applied Physics-Fundamentals of Engineering total	1,128	0	115	22	0	1,265
411			Materials for Machines and Strength of Materials	508	0	120	0	0	628
412			Workshop Processes and Production Engineering	374	0	105	1	0	480
413			Design Engineering, Machine Elements and Tribology	247	3	47	3	0	300
414			Fluid Mechanics	464	1	129	0	0	594
415			Heat Engineering	536	3	112	2	0	653
416			Mechanics and Control Engineering	329	0	115	0	0	444
417			Intelligent Mechanics and Machine System	454	0	63	3	1	521
			Machine Engineering total	2,912	7	691	9	1	3,620
421			Electric Power Engineering and Electric Machinery	388	0	133	3	0	524
422			Electronic and Electric Materials Engineering	520	0	93	0	0	613
423			Electron Devices and Apparatus Engineering	483	2	83	1	0	569
424			Information and Communication Engineering	860	2	171	8	0	1,041

Table 16. Number of Research Topics by Field of Specialization / by Institution Type (National Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Total
425	E		System Engineering	187	0	18	2	2	209
427			Electronic Measurements	322	0	88	0	0	410
428			Control Engineering	383	0	91	0	1	475
			Electric and Electronic Engineering	3,143	4	677	14	3	3,841
431			Construction Materials and Dynamics in General Civil Engineering	189	0	47	0	0	236
432			Structural Engineering and Seismology	298	0	44	0	0	342
433			Ground Engineering	354	0	59	3	0	416
434			Hydraulics and River Engineering	396	0	51	0	0	447
435			Traffic Engineering and Regional Planning	256	0	34	0	0	290
436			Civil Environmental System	266	0	45	0	0	311
			Civil Engineering total	1,759	0	280	3	0	2,042
441		N	Building Structure and Materials	375	0	37	0	1	413
442			Building Science and Building Equipment	210	6	22	0	0	238
443		G	City Planning and Building Planning	483	1	64	0	0	548
444		I	Architectural History and Design	212	3	24	0	5	244
			Architecture total	1,280	10	147	0	6	1,443
451		N	Physical Metallurgy	283	0	36	0	0	319
452			Inorganic Materials and	434	0	48	3	0	485
453		E	Composed Materials and Properties	134	0	17	0	2	153
454		E	Structural and Functional Materials	329	0	23	0	0	352
455		R	Metallurgy and Material	371	3	45	0	0	419
456			Metal Productive Engineering	180	0	11	0	0	191
			Material Engineering total	1,731	3	180	3	2	1,919
461		N	Chemical Engineering in General	329	0	30	0	0	359
462			Reaction and Separation Engineering	219	0	9	0	0	228
463			Catalyst and Chemical Process	194	0	8	3	0	205
464			Bioengineering	351	0	25	0	0	376
465			Industrial Analytical Chemistry	161	0	29	0	0	190
			Process Engineering total	1,254	0	101	3	0	1,358
471			Industrial Physical Chemistry	265	0	13	0	0	278
472			Industrial Inorganic Chemistry	144	0	19	0	0	163
473			Industrial Organic Chemistry	115	0	13	0	0	128
474			Synthetic Chemistry	333	0	27	1	0	361
475			Polymer Synthesis	282	0	21	1	0	304
476			Polymer Structure and Property (inclu. Fiber)	300	0	11	1	0	312
			Industrial Chemistry total	1,439	0	104	3	0	1,546
481			Aeronautics	169	0	5	0	0	174
482			Ship Engineering	169	0	30	0	0	199
483			Marine Engineering	53	0	5	0	0	58
484			Resource Development Engineering	168	0	7	0	0	175
			Synthetic Engineering total	559	0	47	0	0	606
			ENGINEERING Total	15,205	24	2,342	57	12	17,640
501	A G R I C U L T U R E		Plant Breeding	168	0	2	0	3	173
502			Crop Science	184	0	3	0	0	187
503			Horticulture and Landscape Architecture	316	0	0	0	6	322
504			Plant Protection	225	0	0	0	0	225
505			Sericultural Science and Economic Entomology	74	0	0	0	0	74
			Agriculture total	967	0	5	0	9	981
511			Plant Fertilizer and Manure and Soil Science	221	0	1	0	1	223
512			Applied Microbiochemistry and Applied Biochemistry	501	0	18	0	0	519
513			Biological Productive Chemistry and Bioorganic Chemistry	187	0	3	0	0	190
514			Food Science and Nutritional Chemistry	414	0	11	0	0	425

Table 16. Number of Research Topics by Field of Specialization / by Institution Type (National Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Total
	A		Agricultural Chemistry total	1,323	0	33	0	1	1,357
521			Forestry	505	0	1	0	0	506
522	G		Wood Science	297	3	2	0	0	302
			Forestry total	802	3	3	0	0	808
531	R		Fisheries in General	468	0	0	0	0	468
532			Fisheries Chemistry	167	0	2	0	0	169
			Fisheries total	635	0	2	0	0	637
541	I		Agricultural Economics	298	0	0	0	0	298
551	C		Irrigation, Drainage and Reclamation Engineering and Rural Planning	300	0	3	0	0	303
552	U		Agricultural Machinery	220	0	2	0	0	222
553	L		Biological Environment	91	0	0	0	0	91
			Agricultural Engineering total	611	0	5	0	0	616
561	T		Animal Science and Grassland Science	204	0	0	0	0	204
562	U		Applied Animal Science	228	0	0	0	0	228
563	R		Basic Veterinary Medicine and Basic Animal Science	259	0	0	0	3	262
564			Applied Veterinary Medicine	225	0	0	0	0	225
	E		Animal Science-Veterinary Medicine total	916	0	0	0	3	919
571			Biological Resource Science	106	0	0	0	0	106
572			Applied Molecular Cell Biology	95	0	5	0	0	100
			Interdisciplinary Agricultural Science total	201	0	5	0	0	206
			AGRICULTURE Total	5,753	3	53	0	13	5,822
601			Anatomy in General (inclu. Histology, Embryology)	318	2	0	5	0	325
602			Physiology in General	347	0	0	18	0	365
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	178	0	5	0	0	183
604			Pharmacology in General	231	0	0	4	0	235
605			Medical Chemistry in General	273	2	3	3	0	281
606			Pathological Medical Chemistry	161	0	0	0	0	161
	M		Physiology total	1,508	4	8	30	0	1,550
611			Hominal Pathology	345	0	0	0	0	345
612	E		Experimental Pathology	222	0	0	0	0	222
613	D		Parasitology (inclu. Medical Zoology)	155	0	0	0	1	156
614			Bacteriology (inclu. Eumycetes)	223	4	2	0	0	229
615	I		Virology	226	0	0	0	0	226
616			Immunology	323	0	0	0	0	323
	C		Pathology total	1,494	4	2	0	1	1,501
621			Hygiene	192	0	0	0	0	192
622	I		Public Health and Health Science	589	7	3	0	1	600
623			Legal Medicine	191	0	0	0	0	191
	N		Social Medicine total	972	7	3	0	1	983
631			Internal Medicine in General	354	5	0	0	0	359
632	E		Gastroenterology	413	2	0	0	0	415
633			Internal Medicine Respiratory System	205	0	0	0	0	205
634			Neurological Medicine	305	1	0	3	0	309
635			Cardioangiopathy	471	0	0	0	0	471
636			Pediatrics	450	0	0	0	0	450
637			Dermatology	257	0	0	0	0	257
638			Radiology	599	3	0	1	0	603
639			Neuropsychiatry	415	0	0	0	3	418
641			Hematology	319	0	0	0	0	319
642			Internal Medicine of Kidney	173	3	0	0	0	176
643			Embryology and Newborn	23	0	0	0	0	23
644			Endocrinology	195	0	0	0	0	195
645			Metabolic Science	195	0	0	0	0	195
			Internal Medicine total	4,374	14	0	4	3	4,395
651			Surgery in General	320	0	0	0	0	320
652			Gastroenterological Surgery	408	0	0	0	0	408
653			Thoracic Surgery	234	0	0	0	0	234

Table 16. Number of Research Topics by Field of Specialization / by Institution Type (National Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Total		
654	M		Neurosurgery	297	0	0	0	0	297		
655			Orthopedic Surgery	549	0	0	0	0	549		
656			Anesthesiology and Rescue Medicine	428	0	0	0	0	428		
657			Urology	269	0	0	0	0	269		
658			Obstetrics and Gynecology	359	0	0	0	0	359		
659			Oto-rhino-laryngology	245	0	0	0	0	245		
660			Ophthalmology	265	0	0	0	0	265		
661			Pediatric Surgery	96	0	0	0	0	96		
662			Formative Surgery	44	0	0	0	0	44		
			Surgery total	3,514	0	0	0	0	3,514		
671	E		Oral Anatomy and Morphological Basic Dentistry	199	0	0	0	0	199		
672	D		Functional Basic Dentistry	150	0	0	0	0	150		
673	I		Morbid Dentistry (inclu. Dental Radiology)	171	0	0	0	0	171		
674	C		Conservative Dentistry	227	0	0	0	0	227		
675	I		Prosthodontics and Dental Technology	411	0	0	0	0	411		
676	N		Oral Surgery	528	0	0	0	0	528		
677			Orthodontics, Pedodontics and Social Dentistry	487	0	0	0	0	487		
678			Periodontological Dentistry	133	0	0	0	0	133		
	E		Dentistry total	2,306	0	0	0	0	2,306		
681			Chemical Pharmaceuticals	240	0	1	0	0	241		
682			Physical Pharmaceuticals	112	0	0	0	0	112		
683			Biopharmaceutics	309	0	3	0	0	312		
684			Molecular Pharmaceutics	116	0	0	0	0	116		
685			Environmental Pharmaceutics	31	0	3	0	0	34		
		Pharmaceutics total	808	0	7	0	0	815			
691			Medical Sociology	174	2	3	0	0	179		
692			Human Genetics	129	0	0	0	0	129		
693			Applied Pharmacology and Medical Pharmacology	138	0	0	0	0	138		
694			Pathological Examination	183	0	0	0	0	183		
696	Science of Basic and Local Nursing		412	2	3	0	0	417			
697	Science of Clinical Nursing		564	1	0	0	0	565			
	Medicine in General total	1,600	5	6	0	0	1,611				
	MEDICINE Total			16,576	34	26	34	5	16,675		
702	I N T E R D I S C I P L I N A R Y		History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	102	0	9	2	13	126		
703			Physical Education	976	8	105	0	0	1,089		
704			Human Geography	245	0	12	0	2	259		
705			Physical Geography	179	0	1	0	0	180		
			Geography total	424	0	13	0	2	439		
706			Home Science(inclu. Cloth/Living Environments)	279	0	5	0	0	284		
707			Food Culture	105	0	0	0	0	105		
			Domestic Science total	384	0	5	0	0	389		
708			Science of Cultural Property	37	2	1	0	10	50		
711			Science Education	267	2	34	0	21	324		
712	A R E A		Educational Engineering	183	3	42	26	10	264		
713			Curriculum Studies	1,048	6	85	0	19	1,158		
714			Japanese Language Education	217	0	3	0	11	231		
			Science Education·Curriculum Education total	1,715	11	164	26	61	1,977		
721			Statistics	112	0	0	6	0	118		
731			Computer Science	815	5	107	0	2	929		
732			Intelligent Informatics	816	5	76	4	4	905		
733			I		Study of Information System (Inclu. Library and Information Science)	358	5	33	6	4	406
					Information Science total	1,989	15	216	10	10	2,240
741					Social System Engineering	313	1	10	0	1	325
751	Natural Disaster Science	62			0	2	0	0	64		
761	Plasma Science and Technology	291			0	15	0	0	306		
772	Nuclear Fusion	94			0	3	0	0	97		

Table 16. Number of Research Topics by Field of Specialization / by Institution Type (National Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Total
773	N T E R D I S C I P L I N A R Y A R E A		Energy Science General	143	0	7	0	0	150
774			Nuclear Power Science	286	0	4	5	0	295
			Energy total	523	0	14	5	0	542
801			Environmental Dynamic Analysis	255	0	3	0	0	258
802			Environmental Influence Assessment (inclu. Radiobiology)	209	0	8	0	0	217
803			Environmental Preservation	312	0	18	0	0	330
			Environmental Science total	776	0	29	0	0	805
811			Biological Organic Chemistry	237	0	5	0	0	242
812			Structured Biochemistry	186	0	1	1	0	188
813			Functional Biochemistry	283	0	3	0	0	286
			Biological Chemistry total	706	0	9	1	0	716
821			Biophysics	275	0	7	17	0	299
822			Molecular Biology	636	0	4	17	0	657
823			Cell Biology	374	0	0	7	0	381
824			Developmental Biology	238	0	2	14	0	254
			Basic Biology total	1,523	0	13	55	0	1,591
831			Neuroanatomy and Neuropathology	160	1	0	2	0	163
832			Neurochemistry and Neuropharmacology	145	0	0	2	0	147
833			Neuro Science in General	318	2	0	32	0	352
834			Neuro and Muscular Physiology	206	2	0	14	0	222
			Neuro Science (inclu. Brain Science) total	829	5	0	50	0	884
841			Laboratory Animal Science	87	0	1	1	0	89
851			Medical Organism Engineering and Material Science of Organism	429	5	37	0	0	471
			INTERDISCIPLINARY AREA Total	11,278	47	643	156	97	12,221
999	WIDE AREA Total			894	22	36	4	11	967
	Item n.a. Total			32,591	38	2,233	310	246	35,418
	Grand Total			106,039	225	6,447	1,015	802	114,528

Table 17. Number of Research Topics by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Total	
211	ARTS • HUMANITIES		Philosophy	65	5	4	74	
212			Chinese Philosophy	13	7	3	23	
213			Indian Philosophy (inclu. Buddhist Studies)	6	6	0	12	
214			Religion	4	0	1	5	
215			Ethics	13	0	0	13	
216			History of Philosophy	38	2	0	40	
217			Aesthetics (inclu. Arts)	155	33	9	197	
218			Art History	42	3	0	45	
			Philosophy total	336	56	17	409	
221			Experimental Psychology	59	9	0	68	
222			Educational and Social	156	37	0	193	
223			Sociology	307	40	0	347	
224			Education	123	62	2	187	
225			Cultural Anthropology (inclu. Ethnology and Folklore)	44	6	0	50	
		Psychology • Sociology • Education Cultural Anthropology total			689	154	2	845
231			Japanese History	48	6	4	58	
232			Oriental History	34	2	2	38	
233			European History	74	11	0	85	
234			Archaeology (inclu. Prehistory)	8	0	0	8	
		History total			164	19	6	189
241			Japanese Language	30	8	0	38	
242			Japanese Literature	72	14	8	94	
243			Chinese Language and Literature	34	5	0	39	
244			English Language and Literature	208	54	10	272	
245			French Language and Literature	60	8	0	68	
246			German Language and Literature	59	0	1	60	
247			Other Foreign Languages and Literatures	47	6	0	53	
248			Linguistics and Phonetics	127	21	9	157	
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	11	3	0	14	
		Literature total			648	119	28	795
	ARTS • HUMANITIES Total			1,837	348	53	2,238	
261	LAW		Basic Science of Law	26	2	0	28	
262			Public Law	37	4	0	41	
263			International Law	24	3	0	27	
264			Civil Law	45	2	0	47	
265			Social Law	19	3	0	22	
266			Criminal Law	9	0	0	9	
267			Politics	101	10	2	113	
	LAW Total			261	24	2	287	
271	ECONOMICS		General Theory of Economics	154	19	0	173	
272			Economical Statistics	27	0	0	27	
273			Economic Policy (inclu. Economic Condition)	170	21	2	193	
274			Economic History	44	7	0	51	
275			Public Finance, Money and Banking	68	7	0	75	
276			Commercial Science	45	6	0	51	
277			Business Administration	99	14	0	113	
278			Accounting	64	4	0	68	
	ECONOMICS Total			671	78	2	751	
301	SCIENCE		Algebra	32	2	3	37	
302			Geometry	23	0	8	31	
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	46	2	12	60	
305			Basic Analysis	30	0	3	33	
306			Larger-area Analysis	15	0	0	15	
		Mathematics total			146	4	26	176
311		Astronomy			2	0	3	5
321		Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	60	1	3	64		

Table 17. Number of Research Topics by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Total
322	S C I E N C E		Solid-State Physics I (Optical Properties, Semiconductor and Dielectrics)	52	3	2	57
323			Solid-State Physics II (Magnetism, Metal Physics,	45	0	4	49
324			Physical Properties in General (inclu. Basic Theories)	24	0	9	33
325			Physics in General	32	0	3	35
			Physics total	213	4	21	238
331			Physics of Solid Earth	9	0	0	9
332			Meteorology, Oceanography and Hydrology	21	0	0	21
333			Aeronomy	2	0	0	2
334			Geology	26	2	0	28
335			Stratigraphy and Paleontology	10	0	0	10
336			Mineralogy, Petrology and Study of Mineral Deposit	15	0	0	15
337			Geochemistry	8	0	0	8
			Earth Science total	91	2	0	93
341			Physical Chemistry	76	3	4	83
342			Organic Chemistry	57	0	7	64
343			Inorganic Chemistry	29	3	1	33
344			Function, Properties and Materials in Chemistry	24	1	0	25
345			Substance Transformation	6	0	2	8
346			Separation, Refining and Identification	29	1	0	30
			Chemistry total	221	8	14	243
351			Genetics	34	0	0	34
352			Ecology	50	4	0	54
353			Plant Physiology	78	1	0	79
354			Morphology, Structure of Organism	8	0	0	8
355			Animal Physiology and	16	3	0	19
356			Morphology and Taxonomy	24	3	0	27
			Biology total	210	11	0	221
361			Physical Anthropology (inclu. Physiological Anthropology)	16	0	0	16
	SCIENCE Total			899	29	64	992
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	37	0	6	43
402			Surface Physics	10	0	0	10
403			Applied Optics and Quantum Optics	32	0	1	33
404			General Applied Physics	17	0	0	17
405			Fundamentals of Engineering	10	0	3	13
			Applied Physics-Fundamentals of Engineering total	106	0	10	116
411			Materials for Machines and Strength of Materials	61	0	9	70
412			Workshop Processes and Production Engineering	36	2	16	54
413			Design Engineering, Machine Elements and Tribology	19	0	9	28
414			Fluid Mechanics	44	3	10	57
415			Heat Engineering	37	0	13	50
416			Mechanics and Control Engineering	21	0	13	34
417			Intelligent Mechanics and Machine System	36	0	2	38
			Machine Engineering total	254	5	72	331
421			Electric Power Engineering and Electric Machinery	31	0	17	48
422			Electronic and Electric Materials Engineering	25	0	0	25
423			Electron Devices and Apparatus Engineering	43	0	3	46
424			Information and Communication Engineering	125	1	18	144

Table 17. Number of Research Topics by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Total
425	E		System Engineering	19	0	2	21
427			Electronic Measurements	18	0	5	23
428			Control Engineering	51	0	11	62
			Electric and Electronic Engineering	312	1	56	369
431			Construction Materials and Dynamics in General Civil Engineering	11	0	3	14
432			Structural Engineering and Seismology	30	0	11	41
433			Ground Engineering	22	0	0	22
434			Hydraulics and River Engineering	9	0	8	17
435			Traffic Engineering and Regional Planning	18	0	2	20
436			Civil Environmental System	20	4	1	25
			Civil Engineering total	110	4	25	139
441		N	Building Structure and Materials	71	0	0	71
442			Building Science and Building Equipment	55	12	3	70
443		G	City Planning and Building Planning	81	10	3	94
444		I	Architectural History and Design	31	6	0	37
			Architecture total	238	28	6	272
451		N	Physical Metallurgy	15	0	0	15
452			Inorganic Materials and	9	0	0	9
453		E	Composed Materials and Properties	9	0	2	11
454		E	Structural and Functional Materials	19	0	3	22
455		R	Metallurgy and Material	12	0	5	17
456			Metal Productive Engineering	5	0	2	7
			Material Engineering total	69	0	12	81
461		G	Chemical Engineering in General	23	0	6	29
462			Reaction and Separation Engineering	16	0	0	16
463			Catalyst and Chemical Process	11	0	0	11
464			Bioengineering	35	0	0	35
465			Industrial Analytical Chemistry	13	1	3	17
			Process Engineering total	98	1	9	108
471			Industrial Physical Chemistry	37	0	4	41
472			Industrial Inorganic Chemistry	7	0	3	10
473			Industrial Organic Chemistry	4	0	0	4
474			Synthetic Chemistry	11	0	4	15
475			Polymer Synthesis	23	0	1	24
476			Polymer Structure and Property (inclu. Fiber)	23	9	1	33
			Industrial Chemistry total	105	9	13	127
481			Aeronautics	14	0	4	18
482			Ship Engineering	11	0	1	12
483			Marine Engineering	8	0	0	8
484			Resource Development Engineering	4	0	5	9
			Synthetic Engineering total	37	0	10	47
			ENGINEERING Total	1,329	48	213	1,590
501	A G R I C U L T U R E		Plant Breeding	32	9	0	41
502			Crop Science	10	5	0	15
503			Horticulture and Landscape Architecture	86	9	1	96
504			Plant Protection	21	12	0	33
505			Sericultural Science and Economic Entomology	2	0	0	2
			Agriculture total	151	35	1	187
511			Plant Fertilizer and Manure and Soil Science	18	11	0	29
512			Applied Microbiochemistry and Applied Biochemistry	49	5	0	54
513			Biological Productive Chemistry and Bioorganic Chemistry	25	3	0	28
514			Food Science and Nutritional Chemistry	110	35	0	145

Table 17. Number of Research Topics by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Total
	A		Agricultural Chemistry total	202	54	0	256
521			Forestry	30	1	0	31
522	G		Wood Science	18	0	0	18
			Forestry total	48	1	0	49
531	R		Fisheries in General	14	0	0	14
532			Fisheries Chemistry	0	2	0	2
			Fisheries total	14	2	0	16
541	I		Agricultural Economics	47	7	0	54
551	C		Irrigation, Drainage and Reclamation Engineering and Rural Planning	9	21	0	30
552	U		Agricultural Machinery	10	6	0	16
553	L		Biological Environment	10	3	0	13
			Agricultural Engineering total	29	30	0	59
561	T		Animal Science and Grassland Science	7	10	0	17
562	U		Applied Animal Science	5	13	0	18
563	R		Basic Veterinary Medicine and Basic Animal Science	25	1	0	26
564			Applied Veterinary Medicine	28	2	0	30
	E		Animal Science-Veterinary Medicine total	65	26	0	91
571			Biological Resource Science	12	0	0	12
572			Applied Molecular Cell Biology	10	0	0	10
			Interdisciplinary Agricultural Science total	22	0	0	22
			AGRICULTURE Total	578	155	1	734
601			Anatomy in General (inclu. Histology, Embryology)	52	8	0	60
602			Physiology in General	44	5	0	49
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	53	12	0	65
604			Pharmacology in General	51	0	0	51
605			Medical Chemistry in General	41	0	0	41
606			Pathological Medical Chemistry	31	0	0	31
	M		Physiology total	272	25	0	297
611			Hominal Pathology	60	3	0	63
612	E		Experimental Pathology	38	4	0	42
613	D		Parasitology (inclu. Medical Zoology)	28	4	0	32
614			Bacteriology (inclu. Eumycetes)	50	10	0	60
615	I		Virology	20	0	0	20
616			Immunology	22	4	0	26
			Pathology total	218	25	0	243
621	C		Hygiene	45	3	0	48
622	I		Public Health and Health Science	183	20	0	203
623			Legal Medicine	32	0	0	32
			Social Medicine total	260	23	0	283
631	N		Internal Medicine in General	80	11	0	91
632	E		Gastroenterology	106	0	0	106
633			Internal Medicine Respiratory System	54	0	0	54
634			Neurological Medicine	52	0	0	52
635			Cardioangiopathy	67	3	0	70
636			Pediatrics	87	1	0	88
637			Dermatology	62	0	0	62
638			Radiology	71	3	0	74
639			Neuropsychiatry	60	10	0	70
641			Hematology	36	6	0	42
642			Internal Medicine of Kidney	26	3	0	29
643			Embryology and Newborn	16	0	0	16
644			Endocrinology	19	0	0	19
645			Metabolic Science	33	1	0	34
			Internal Medicine total	769	38	0	807
651			Surgery in General	52	4	0	56
652			Gastroenterological Surgery	93	0	0	93
653			Thoracic Surgery	29	0	0	29

Table 17. Number of Research Topics by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Total
654	M		Neurosurgery	63	0	0	63
655			Orthopedic Surgery	151	0	0	151
656			Anesthesiology and Rescue Medicine	106	2	0	108
657			Urology	64	0	0	64
658			Obstetrics and Gynecology	65	6	0	71
659			Oto-rhino-laryngology	63	0	0	63
660			Ophthalmology	54	0	0	54
661			Pediatric Surgery	12	0	0	12
662			Formative Surgery	9	0	0	9
			Surgery total	761	12	0	773
671	E		Oral Anatomy and Morphological Basic Dentistry	23	0	0	23
672	D		Functional Basic Dentistry	18	0	0	18
673	I		Morbid Dentistry (inclu. Dental Radiology)	11	0	0	11
674	C		Conservative Dentistry	16	3	0	19
675			Prosthodontics and Dental Technology	12	0	0	12
676	I		Oral Surgery	56	0	0	56
677	N		Orthodontics, Pedodontics and Social Dentistry	10	9	0	19
678			Periodontological Dentistry	6	1	0	7
	E		Dentistry total	152	13	0	165
681			Chemical Pharmaceutics	40	0	0	40
682			Physical Pharmaceutics	27	0	0	27
683			Biopharmaceutics	66	3	0	69
684			Molecular Pharmaceutics	13	0	0	13
685			Environmental Pharmaceutics	12	0	0	12
			Pharmaceutics total	158	3	0	161
691			Medical Sociology	57	11	0	68
692			Human Genetics	21	0	0	21
693			Applied Pharmacology and Medical Pharmacology	8	0	0	8
694			Pathological Examination	17	12	0	29
696			Science of Basic and Local Nursing	348	118	0	466
697			Science of Clinical Nursing	390	130	0	520
			Medicine in General total	841	271	0	1,112
			MEDICINE Total	3,431	410	0	3,841
702	I N T E R D I S C I P L I N A R Y		History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	13	0	0	13
703			Physical Education	136	22	4	162
704			Human Geography	36	0	2	38
705			Physical Geography	12	0	2	14
			Geography total	48	0	4	52
706			Home Science(inclu. Cloth/Living Environments)	27	46	0	73
707			Food Culture	65	45	0	110
			Domestic Science total	92	91	0	183
708			Science of Cultural Property	5	0	0	5
711			Science Education	0	0	8	8
712	A R E A		Educational Engineering	28	7	8	43
713			Curriculum Studies	31	33	4	68
714			Japanese Language Education	10	0	0	10
			Science Education·Curriculum Education total	69	40	20	129
721			Statistics	15	2	0	17
731			Computer Science	81	2	2	85
732			Intelligent Informatics	103	3	10	116
733			Study of Information System (Inclu. Library and Information Science)	63	11	0	74
			Information Science total	247	16	12	275
741			Social System Engineering	50	9	0	59
751	I		Natural Disaster Science	9	0	3	12
761			Plasma Science and Technology	14	0	3	17
772			Nuclear Fusion	2	0	0	2

Table 17. Number of Research Topics by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Total
773	N T E R D I S C I P L I N A R Y A R E A		Energy Science General	15	0	0	15
774			Nuclear Power Science	2	0	0	2
			Energy total	19	0	0	19
801			Environmental Dynamic Analysis	19	2	0	21
802			Environmental Influence Assessment (inclu. Radiobiology)	44	10	3	57
803			Environmental Preservation	43	6	0	49
			Environmental Science total	106	18	3	127
811			Biological Organic Chemistry	31	0	0	31
812			Structured Biochemistry	30	1	0	31
813			Functional Biochemistry	38	6	0	44
			Biological Chemistry total	99	7	0	106
821			Biophysics	40	0	1	41
822			Molecular Biology	56	5	0	61
823			Cell Biology	55	0	0	55
824			Developmental Biology	23	0	0	23
			Basic Biology total	174	5	1	180
831	A R E A		Neuroanatomy and Neuropathology	30	0	0	30
832			Neurochemistry and Neuropharmacology	32	3	0	35
833			Neuro Science in General	51	2	0	53
834			Neuro and Muscular Physiology	38	0	0	38
			Neuro Science (inclu. Brain Science) total	151	5	0	156
841			Laboratory Animal Science	16	0	0	16
851			Medical Organism Engineering and Material Science of Organism	39	1	7	47
			INTERDISCIPLINARY AREA Total	1,302	216	57	1,575
999			WIDE AREA Total	150	26	5	181
			Item n.a. Total	4,462	467	141	5,070
			Grand Total	14,920	1,801	538	17,259

Table 18. Number of Research Topics by Field of Specialization / by Institution Type (Private Institutions)

Code	Subj ect	Subd ivisi on	I t e m	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total
211	ARTS • HUMANITIES		Philosophy	634	81	0	0	715
212			Chinese Philosophy	133	6	0	0	139
213			Indian Philosophy (inclu. Buddhist Studies)	358	73	0	18	449
214			Religion	484	78	0	1	563
215			Ethics	140	18	0	0	158
216			History of Philosophy	295	34	0	2	331
217			Aesthetics (inclu. Arts)	1,325	552	0	4	1,881
218			Art History	292	40	0	10	342
		Philosophy total	3,661	882	0	35	4,578	
221			Experimental Psychology	555	46	0	2	603
222			Educational and Social	2,024	509	0	3	2,536
223			Sociology	2,534	467	0	9	3,010
224			Education	1,593	645	1	17	2,256
225			Cultural Anthropology (inclu. Ethnology and Folklore)	600	100	0	3	703
		Psychology • Sociology • Education Cultural Anthropology total	7,306	1,767	1	34	9,108	
231			Japanese History	596	73	3	21	693
232			Oriental History	379	19	0	6	404
233			European History	532	59	0	3	594
234			Archaeology (inclu. Prehistory)	215	16	0	17	248
		History total	1,722	167	3	47	1,939	
241			Japanese Language	368	60	0	0	428
242			Japanese Literature	1,219	320	2	0	1,541
243			Chinese Language and Literature	424	23	0	0	447
244			English Language and Literature	2,869	634	0	0	3,503
245			French Language and Literature	623	68	0	0	691
246			German Language and Literature	548	10	0	0	558
247			Other Foreign Languages and Literatures	465	39	0	0	504
248			Linguistics and Phonetics	1,188	183	0	0	1,371
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	368	44	0	0	412
		Literature total	8,072	1,381	2	0	9,455	
	ARTS • HUMANITIES Total		20,761	4,197	6	116	25,080	
261	LAW		Basic Science of Law	327	15	0	0	342
262			Public Law	492	38	0	0	530
263			International Law	346	1	0	0	347
264			Civil Law	775	45	0	5	825
265			Social Law	183	11	0	3	197
266			Criminal Law	220	14	0	3	237
267			Politics	1,142	37	0	0	1,179
	LAW Total		3,485	161	0	11	3,657	
271	ECONOMICS		General Theory of Economics	1,073	59	0	3	1,135
272			Economical Statistics	200	4	0	3	207
273			Economic Policy (inclu. Economic Condition)	1,420	62	0	19	1,501
274			Economic History	464	18	3	3	488
275			Public Finance, Money and Banking	620	33	0	0	653
276			Commercial Science	656	69	0	0	725
277			Business Administration	1,608	191	0	0	1,799
278			Accounting	752	88	0	0	840
	ECONOMICS Total		6,793	524	3	28	7,348	
301	SCIENCE		Algebra	262	6	0	0	268
302			Geometry	151	9	1	3	164
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	366	28	3	0	397
305			Basic Analysis	187	7	0	0	194
306			Larger-area Analysis	79	1	0	0	80
		Mathematics total	1,045	51	4	3	1,103	
311		Astronomy	62	7	0	0	69	
321			Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	372	34	5	0	411

Table 18. Number of Research Topics by Field of Specialization / by Institution Type (Private Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total
322	S C I E N C E		Solid-State Physics I (Optical Properties, Semiconductor and Dielectrics)	225	5	3	0	233
323			Solid-State Physics II (Magnetism, Metal Physics,	179	5	0	1	185
324			Physical Properties in General (inclu. Basic Theories)	169	11	0	0	180
325			Physics in General	176	10	0	1	187
			Physics total	1,121	65	8	2	1,196
331			Physics of Solid Earth	56	4	0	2	62
332			Meteorology, Oceanography and Hydrology	111	0	1	0	112
333			Aeronomy	40	2	0	0	42
334			Geology	62	0	0	11	73
335			Stratigraphy and Paleontology	22	3	0	4	29
336			Mineralogy, Petrology and Study of Mineral Deposit	42	2	0	0	44
337			Geochemistry	45	3	0	0	48
			Earth Science total	378	14	1	17	410
341			Physical Chemistry	273	12	0	0	285
342			Organic Chemistry	236	6	0	12	254
343			Inorganic Chemistry	168	4	0	0	172
344			Function, Properties and Materials in Chemistry	139	4	0	0	143
345			Substance Transformation	31	0	0	0	31
346			Separation, Refining and Identification	112	5	0	2	119
			Chemistry total	959	31	0	14	1,004
351			Genetics	60	7	0	6	73
352			Ecology	184	34	0	19	237
353			Plant Physiology	84	10	0	3	97
354			Morphology, Structure of Organism	96	10	0	5	111
355			Animal Physiology and	70	9	0	1	80
356			Morphology and Taxonomy	91	6	0	8	105
			Biology total	585	76	0	42	703
361			Physical Anthropology (inclu. Physiological Anthropology)	86	4	0	0	90
	SCIENCE Total			4,236	248	13	78	4,575
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	121	2	1	1	125
402			Surface Physics	92	2	0	0	94
403			Applied Optics and Quantum Optics	164	8	0	6	178
404			General Applied Physics	77	10	0	13	100
405			Fundamentals of Engineering	66	5	0	0	71
			Applied Physics-Fundamentals of Engineering total	520	27	1	20	568
411			Materials for Machines and Strength of Materials	345	12	2	1	360
412			Workshop Processes and Production Engineering	263	6	5	0	274
413			Design Engineering, Machine Elements and Tribology	183	27	3	4	217
414			Fluid Mechanics	333	11	0	0	344
415			Heat Engineering	273	22	1	0	296
416			Mechanics and Control Engineering	233	15	3	0	251
417			Intelligent Mechanics and Machine System	241	14	0	0	255
			Machine Engineering total	1,871	107	14	5	1,997
421			Electric Power Engineering and Electric Machinery	364	17	6	0	387
422			Electronic and Electric Materials Engineering	325	12	0	5	342
423			Electron Devices and Apparatus Engineering	366	7	0	0	373
424			Information and Communication Engineering	688	38	6	2	734

Table 18. Number of Research Topics by Field of Specialization / by Institution Type (Private Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total
425	E N G I N E E R I N G		System Engineering	167	14	2	0	183
427			Electronic Measurements	285	9	6	1	301
428			Control Engineering	176	11	4	3	194
			Electric and Electronic Engineering	2,371	108	24	11	2,514
431			Construction Materials and Dynamics in General Civil Engineering	177	0	0	0	177
432			Structural Engineering and Seismology	215	19	0	0	234
433			Ground Engineering	160	1	0	2	163
434			Hydraulics and River Engineering	152	4	0	4	160
435			Traffic Engineering and Regional Planning	187	15	1	0	203
436			Civil Environmental System	145	2	0	0	147
			Civil Engineering total	1,036	41	1	6	1,084
441		N	Building Structure and Materials	442	14	0	2	458
442			Building Science and Building Equipment	226	13	0	6	245
443			City Planning and Building Planning	712	67	0	1	780
444		I	Architectural History and Design	292	44	0	0	336
			Architecture total	1,672	138	0	9	1,819
451		N	Physical Metallurgy	53	3	0	6	62
452			Inorganic Materials and	152	3	0	0	155
453			Composed Materials and Properties	54	3	0	0	57
454		E	Structural and Functional Materials	94	8	0	4	106
455		R	Metallurgy and Material	156	7	0	0	163
456			Metal Productive Engineering	50	2	0	0	52
			Material Engineering total	559	26	0	10	595
461		I N D U S T R I A L	Chemical Engineering in General	80	0	0	0	80
462			Reaction and Separation Engineering	38	0	0	0	38
463			Catalyst and Chemical Process	55	3	0	0	58
464			Bioengineering	116	3	0	4	123
465			Industrial Analytical Chemistry	72	3	0	0	75
			Process Engineering total	361	9	0	4	374
471			Industrial Physical Chemistry	81	0	0	0	81
472			Industrial Inorganic Chemistry	47	1	0	0	48
473			Industrial Organic Chemistry	61	8	0	0	69
474			Synthetic Chemistry	87	0	0	4	91
475			Polymer Synthesis	80	2	0	1	83
476			Polymer Structure and Property (inclu. Fiber)	97	27	0	1	125
			Industrial Chemistry total	453	38	0	6	497
481			Aeronautics	72	0	0	0	72
482			Ship Engineering	27	0	0	0	27
483			Marine Engineering	26	0	0	0	26
484			Resource Development Engineering	22	0	0	0	22
			Synthetic Engineering total	147	0	0	0	147
			ENGINEERING Total	8,990	494	40	71	9,595
501	A G R I C U L T U R E		Plant Breeding	41	0	0	4	45
502			Crop Science	35	5	0	3	43
503			Horticulture and Landscape Architecture	144	34	0	3	181
504			Plant Protection	49	8	0	1	58
505			Sericultural Science and Economic Entomology	25	3	0	15	43
			Agriculture total	294	50	0	26	370
511			Plant Fertilizer and Manure and Soil Science	39	8	0	0	47
512			Applied Microbiochemistry and Applied Biochemistry	285	35	0	14	334
513			Biological Productive Chemistry and Bioorganic Chemistry	53	9	0	3	65
514			Food Science and Nutritional Chemistry	371	265	0	3	639

Table 18.Number of Research Topics by Field of Specialization / by Institution Type (Private Institutions)

Code	Subj ect	Subd ivisi on	I t e m	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total
	A		Agricultural Chemistry total	748	317	0	20	1,085
521			Forestry	53	3	0	0	56
522	G		Wood Science	21	0	0	0	21
			Forestry total	74	3	0	0	77
531	R		Fisheries in General	138	0	0	6	144
532			Fisheries Chemistry	52	5	0	1	58
			Fisheries total	190	5	0	7	202
541	I		Agricultural Economics	196	16	0	0	212
551	C		Irrigation, Drainage and Reclamation Engineering and Rural Planning	51	3	0	0	54
552	U		Agricultural Machinery	21	13	0	0	34
553	L		Biological Environment	15	1	2	0	18
			Agricultural Engineering total	87	17	2	0	106
561	T		Animal Science and Grassland Science	77	8	0	0	85
562	U		Applied Animal Science	49	0	0	2	51
563	R		Basic Veterinary Medicine and Basic Animal Science	151	7	0	14	172
564			Applied Veterinary Medicine	186	0	0	14	200
	E		Animal Science·Veterinary Medicine total	463	15	0	30	508
571			Biological Resource Science	29	0	0	0	29
572			Applied Molecular Cell Biology	25	1	0	0	26
			Interdisciplinary Agricultural Science total	54	1	0	0	55
			AGRICULTURE Total	2,106	424	2	83	2,615
601			Anatomy in General (inclu. Histology, Embryology)	287	14	0	2	303
602			Physiology in General	287	17	0	0	304
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	218	49	0	0	267
604			Pharmacology in General	258	16	0	0	274
605			Medical Chemistry in General	180	19	0	0	199
606			Pathological Medical Chemistry	85	9	0	3	97
	M		Physiology total	1,315	124	0	5	1,444
611			Hominal Pathology	337	14	0	8	359
612	E		Experimental Pathology	99	12	0	13	124
613	D		Parasitology (inclu.Medical Zoology)	91	12	0	0	103
614			Bacteriology (inclu. Eumycetes)	209	13	0	10	232
615	I		Virology	74	2	0	22	98
616			Immunology	242	7	0	16	265
			Pathology total	1,052	60	0	69	1,181
621	C		Hygiene	243	26	0	17	286
622	I		Public Health and Health Science	569	145	0	7	721
623			Legal Medicine	159	2	0	0	161
			Social Medicine total	971	173	0	24	1,168
631	N		Internal Medicine in General	389	8	0	2	399
632	E		Gastroenterology	409	0	0	9	418
633			Internal Medicine Respiratory System	208	4	0	4	216
634			Neurological Medicine	253	0	0	3	256
635			Cardioangiolog	471	7	0	2	480
636			Pediatrics	412	22	0	2	436
637			Dermatology	192	4	0	0	196
638			Radiology	386	23	0	6	415
639			Neuropsychiatry	441	19	0	0	460
641			Hematology	258	3	0	4	265
642			Internal Medicine of Kidney	209	7	0	4	220
643			Embryology and Newborn	38	0	0	0	38
644			Endocrinology	145	0	0	2	147
645			Metabolic Science	168	1	0	1	170
			Internal Medicine total	3,979	98	0	39	4,116
651			Surgery in General	377	0	0	0	377
652			Gastroenterological Surgery	302	0	0	7	309
653			Thoracic Surgery	284	0	0	4	288

Table 18.Number of Research Topics by Field of Specialization / by Institution Type (Private Institutions)

Code	Subj ect	Subd ivision	I t e m	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total
654	M 							

Table 18.Number of Research Topics by Field of Specialization / by Institution Type (Private Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total
773	N T E R D I S C I P L I N A R Y A R E A		Energy Science General	51	2	0	0	53
774			Nuclear Power Science	51	1	0	0	52
			Energy total	125	6	0	3	134
801			Environmental Dynamic Analysis	132	9	0	0	141
802			Environmental Influence Assessment (inclu. Radiobiology)	128	6	4	7	145
803			Environmental Preservation	251	19	0	4	274
			Environmental Science total	511	34	4	11	560
811			Biological Organic Chemistry	86	4	0	8	98
812			Structured Biochemistry	112	1	0	5	118
813			Functional Biochemistry	159	10	0	0	169
			Biological Chemistry total	357	15	0	13	385
821			Biophysics	112	3	0	0	115
822			Molecular Biology	270	16	0	12	298
823			Cell Biology	175	5	0	18	198
824			Developmental Biology	55	0	0	6	61
			Basic Biology total	612	24	0	36	672
831	A R E A		Neuroanatomy and Neuropathology	89	1	0	0	90
832			Neurochemistry and Neuropharmacology	121	0	0	2	123
833			Neuro Science in General	177	14	0	1	192
834			Neuro and Muscular Physiology	151	11	0	0	162
			Neuro Science (inclu. Brain Science) total	538	26	0	3	567
841			Laboratory Animal Science	46	0	0	31	77
851			Medical Organism Engineering and Material Science of Organism	355	17	0	3	375
			INTERDISCIPLINARY AREA Total	9,009	2,212	27	150	11,398
999			WIDE AREA Total	1,409	320	3	12	1,744
			Item n.a. Total	28,215	3,164	57	359	31,795
			Grand Total	101,556	12,568	151	1,102	115,377

Table 19. Number of Research Topics by Field of Specialization / by Status of Research Topic (Japan)

Code	Subj ect	Subd ivisi on	I t e m	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total
211	A R T S · H U M A N I T I E S		Philosophy	1,009	43	69	21	56	1,198
212			Chinese Philosophy	221	5	24	5	15	270
213			Indian Philosophy (inclu. Buddhist Studies)	423	31	36	16	23	529
214			Religion	540	24	41	15	24	644
215			Ethics	271	16	21	4	20	332
216			History of Philosophy	438	15	25	16	20	514
217			Aesthetics (inclu. Arts)	2,217	151	144	62	153	2,727
218			Art History	513	17	37	21	36	624
		Philosophy total		5,632	302	397	160	347	6,838
221			Experimental Psychology	662	123	256	63	48	1,152
222			Educational and Social	2,638	328	668	152	148	3,934
223			Sociology	2,779	248	612	194	200	4,033
224			Education	2,858	277	529	143	175	3,982
225			Cultural Anthropology (inclu. Ethnology and Folklore)	762	47	145	100	42	1,096
		Psychology·Sociology·Education Cultural Anthropology total		9,699	1,023	2,210	652	613	14,197
231			Japanese History	942	48	87	17	62	1,156
232			Oriental History	545	36	55	38	36	710
233			European History	811	30	64	27	37	969
234			Archaeology (inclu. Prehistory)	298	28	64	50	13	453
		History total		2,596	142	270	132	148	3,288
241			Japanese Language	599	24	52	12	35	722
242			Japanese Literature	1,836	41	104	13	86	2,080
243			Chinese Language and Literature	579	22	49	27	28	705
244			English Language and Literature	4,095	168	233	64	227	4,787
245			French Language and Literature	922	36	43	12	37	1,050
246			German Language and Literature	819	26	50	18	57	970
247			Other Foreign Languages and Literatures	697	31	65	25	37	855
248			Linguistics and Phonetics	1,650	98	182	98	123	2,151
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	511	18	27	12	28	596
			Literature total		11,708	464	805	281	658
	ARTS·HUMANITIES Total			29,635	1,931	3,682	1,225	1,766	38,239
261	L A W		Basic Science of Law	462	27	46	13	25	573
262			Public Law	666	25	53	8	31	783
263			International Law	381	7	53	15	29	485
264			Civil Law	1,032	23	78	22	53	1,208
265			Social Law	254	6	37	9	18	324
266			Criminal Law	273	6	30	4	14	327
267			Politics	1,413	68	138	78	100	1,797
	LAW Total			4,481	162	435	149	270	5,497
271	E C O N O M I C S		General Theory of Economics	1,386	67	174	97	95	1,819
272			Economical Statistics	197	23	77	26	16	339
273			Economic Policy (inclu. Economic Condition)	1,610	105	258	133	116	2,222
274			Economic History	574	18	82	21	28	723
275			Public Finance, Money and Banking	730	36	88	30	51	935
276			Commercial Science	660	42	89	29	35	855
277			Business Administration	1,658	103	272	92	112	2,237
278			Accounting	897	29	94	26	51	1,097
	ECONOMICS Total			7,712	423	1,134	454	504	10,227
301	S C I E N C E		Algebra	518	39	68	25	23	673
302			Geometry	447	23	57	35	23	585
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	614	62	184	43	44	947
305			Basic Analysis	400	24	70	44	20	558
306			Larger-area Analysis	170	13	51	24	11	269
		Mathematics total		2,149	161	430	171	121	3,032
311		Astronomy		105	70	125	93	11	404
321			Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	266	168	433	409	72	1,348

Table 19. Number of Research Topics by Field of Specialization / by Status of Research Topic (Japan)

Code	Subject	Subdivision	Item	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total
322	S C I E N C E		Solid-State Physics I (Optical Properties, Semiconductor and Dielectrics)	259	221	274	51	20	825
323			Solid-State Physics II (Magnetism, Metal Physics,	189	221	262	83	38	793
324			Physical Properties in General (inclu. Basic Theories)	255	97	155	56	20	583
325			Physics in General	219	151	150	55	23	598
			Physics total	1,188	858	1,274	654	173	4,147
331			Physics of Solid Earth	149	79	155	63	14	460
332			Meteorology, Oceanography and Hydrology	216	89	178	80	20	583
333			Aeronomy	34	21	56	44	2	157
334			Geology	159	25	94	70	17	365
335			Stratigraphy and Paleontology	90	9	40	34	6	179
336			Mineralogy, Petrology and Study of Mineral Deposit	181	48	97	63	7	396
337			Geochemistry	68	51	92	36	10	257
			Earth Science total	897	322	712	390	76	2,397
341			Physical Chemistry	466	310	264	81	50	1,171
342			Organic Chemistry	408	314	172	35	38	967
343			Inorganic Chemistry	222	137	179	24	12	574
344			Function, Properties and Materials in Chemistry	221	148	130	19	14	532
345			Substance Transformation	44	36	28	7	8	123
346			Separation, Refining and Identification	149	104	90	14	19	376
			Chemistry total	1,510	1,049	863	180	141	3,743
351			Genetics	158	71	116	34	18	397
352			Ecology	367	114	228	118	21	848
353			Plant Physiology	186	131	105	56	13	491
354			Morphology, Structure of Organism	129	68	72	35	13	317
355			Animal Physiology and	120	49	83	34	11	297
356			Morphology and Taxonomy	221	30	79	115	22	467
			Biology total	1,181	463	683	392	98	2,817
361			Physical Anthropology (inclu. Physiological Anthropology)	86	24	49	44	7	210
	SCIENCE Total			7,116	2,947	4,136	1,924	627	16,750
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	161	157	140	30	19	507
402			Surface Physics	121	104	81	23	11	340
403			Applied Optics and Quantum Optics	230	138	140	25	35	568
404			General Applied Physics	117	81	89	13	25	325
405			Fundamentals of Engineering	95	39	58	9	8	209
			Applied Physics-Fundamentals of Engineering total	724	519	508	100	98	1,949
411			Materials for Machines and Strength of Materials	469	247	271	28	43	1,058
412			Workshop Processes and Production Engineering	333	218	197	22	38	808
413			Design Engineering, Machine Elements and Tribology	249	119	144	10	23	545
414			Fluid Mechanics	445	247	226	41	36	995
415			Heat Engineering	363	324	223	41	48	999
416			Mechanics and Control Engineering	349	163	167	20	30	729
417			Intelligent Mechanics and Machine System	375	182	187	25	45	814
			Machine Engineering total	2,583	1,500	1,415	187	263	5,948
421			Electric Power Engineering and Electric Machinery	404	240	264	17	34	959
422			Electronic and Electric Materials Engineering	340	341	231	34	34	980
423			Electron Devices and Apparatus Engineering	424	237	240	30	57	988
424			Information and Communication Engineering	915	453	400	47	104	1,919

Table 19. Number of Research Topics by Field of Specialization / by Status of Research Topic (Japan)

Code	Subject	Subdivision	Item	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total
425	ENGINEERING		System Engineering	207	82	80	19	25	413
427			Electronic Measurements	311	177	191	27	28	734
428			Control Engineering	354	146	183	20	28	731
			Electric and Electronic Engineering	2,955	1,676	1,589	194	310	6,724
431			Construction Materials and Dynamics in General Civil Engineering	182	86	130	11	18	427
432			Structural Engineering and Seismology	273	113	192	16	23	617
433			Ground Engineering	227	120	185	44	25	601
434			Hydraulics and River Engineering	262	158	148	44	12	624
435			Traffic Engineering and Regional Planning	210	102	144	31	26	513
436			Civil Environmental System	161	127	146	34	15	483
			Civil Engineering total	1,315	706	945	180	119	3,265
441		N	Building Structure and Materials	422	191	241	39	49	942
442			Building Science and Building Equipment	247	90	183	19	14	553
443			City Planning and Building Planning	787	200	289	86	60	1,422
444			Architectural History and Design	426	47	92	23	29	617
			Architecture total	1,882	528	805	167	152	3,534
451		N	Physical Metallurgy	111	142	92	30	21	396
452			Inorganic Materials and	236	200	150	24	39	649
453			Composed Materials and Properties	80	64	63	7	7	221
454			Structural and Functional Materials	153	149	129	26	23	480
455		R	Metallurgy and Material	232	168	160	18	21	599
456			Metal Productive Engineering	97	64	68	11	10	250
			Material Engineering total	909	787	662	116	121	2,595
461		N	Chemical Engineering in General	187	155	94	13	19	468
462			Reaction and Separation Engineering	101	102	44	16	19	282
463			Catalyst and Chemical Process	127	65	62	9	11	274
464			Bioengineering	168	179	136	26	25	534
465			Industrial Analytical Chemistry	103	97	63	9	10	282
			Process Engineering total	686	598	399	73	84	1,840
471			Industrial Physical Chemistry	168	123	71	20	18	400
472			Industrial Inorganic Chemistry	91	58	50	9	13	221
473			Industrial Organic Chemistry	85	61	36	11	8	201
474			Synthetic Chemistry	204	160	69	13	21	467
475			Polymer Synthesis	230	98	59	1	23	411
476			Polymer Structure and Property (inclu. Fiber)	188	128	100	25	29	470
			Industrial Chemistry total	966	628	385	79	112	2,170
481			Aeronautics	113	55	65	20	11	264
482			Ship Engineering	117	68	43	4	6	238
483			Marine Engineering	33	22	34	1	2	92
484			Resource Development Engineering	56	75	49	17	9	206
			Synthetic Engineering total	319	220	191	42	28	800
			ENGINEERING Total	12,339	7,162	6,899	1,138	1,287	28,825
501	AGRICULTURE		Plant Breeding	83	73	68	21	14	259
502			Crop Science	107	66	29	29	14	245
503			Horticulture and Landscape Architecture	337	138	77	21	26	599
504			Plant Protection	126	89	63	19	19	316
505			Sericultural Science and Economic Entomology	42	42	30	3	2	119
			Agriculture total	695	408	267	93	75	1,538
511			Plant Fertilizer and Manure and Soil Science	137	62	49	33	18	299
512			Applied Microbiochemistry and Applied Biochemistry	314	254	208	70	61	907
513			Biological Productive Chemistry and Bioorganic Chemistry	106	67	77	12	21	283
514			Food Science and Nutritional Chemistry	446	313	340	55	55	1,209

Table 19. Number of Research Topics by Field of Specialization / by Status of Research Topic (Japan)

Code	Subject	Subdivision	Item	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total
	A		Agricultural Chemistry total	1,003	696	674	170	155	2,698
521			Forestry	266	111	134	61	21	593
522	G		Wood Science	120	113	78	13	17	341
			Forestry total	386	224	212	74	38	934
531	R		Fisheries in General	236	128	177	51	34	626
532			Fisheries Chemistry	81	69	59	12	8	229
			Fisheries total	317	197	236	63	42	855
541	I		Agricultural Economics	368	21	92	54	29	564
551	C		Irrigation, Drainage and Reclamation Engineering and Rural Planning	167	77	89	41	13	387
552	U		Agricultural Machinery	78	94	68	15	17	272
553	L		Biological Environment	59	30	13	11	9	122
			Agricultural Engineering total	304	201	170	67	39	781
561	T		Animal Science and Grassland Science	113	101	55	20	17	306
562	U		Applied Animal Science	108	79	63	32	15	297
563	R		Basic Veterinary Medicine and Basic Animal Science	136	157	103	41	23	460
564			Applied Veterinary Medicine	142	141	118	30	24	455
	E		Animal Science·Veterinary Medicine total	499	478	339	123	79	1,518
571			Biological Resource Science	45	33	34	29	6	147
572			Applied Molecular Cell Biology	58	24	36	11	7	136
			Interdisciplinary Agricultural Science total	103	57	70	40	13	283
			AGRICULTURE Total	3,675	2,282	2,060	684	470	9,171
601			Anatomy in General (inclu. Histology, Embryology)	228	263	121	56	20	688
602			Physiology in General	214	288	130	54	32	718
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	164	140	159	35	17	515
604			Pharmacology in General	128	270	103	43	16	560
605			Medical Chemistry in General	132	195	113	57	24	521
606			Pathological Medical Chemistry	75	104	64	32	14	289
	M		Physiology total	941	1,260	690	277	123	3,291
611			Hominal Pathology	250	303	121	58	35	767
612	E		Experimental Pathology	81	177	73	36	21	388
613	D		Parasitology (inclu. Medical Zoology)	57	77	77	74	6	291
614			Bacteriology (inclu. Eumycetes)	123	184	152	47	15	521
615	I		Virology	69	119	107	36	13	344
616			Immunology	141	229	133	63	48	614
	C		Pathology total	721	1,089	663	314	138	2,925
621			Hygiene	115	182	168	48	13	526
622	I		Public Health and Health Science	445	350	527	115	87	1,524
623			Legal Medicine	119	146	74	23	22	384
	N		Social Medicine total	679	678	769	186	122	2,434
631			Internal Medicine in General	216	376	173	50	34	849
632	E		Gastroenterology	301	455	99	47	37	939
633			Internal Medicine Respiratory System	132	235	69	24	15	475
634			Neurological Medicine	192	249	113	36	27	617
635			Cardioangiopathy	297	491	136	48	49	1,021
636			Pediatrics	316	364	202	57	35	974
637			Dermatology	175	221	55	24	40	515
638			Radiology	332	482	189	30	59	1,092
639			Neuropsychiatry	326	348	187	43	44	948
641			Hematology	189	260	112	43	22	626
642			Internal Medicine of Kidney	122	200	65	22	16	425
643			Embryology and Newborn	17	36	17	6	1	77
644			Endocrinology	104	153	67	22	15	361
645			Metabolic Science	113	191	54	21	20	399
			Internal Medicine total	2,832	4,061	1,538	473	414	9,318
651			Surgery in General	242	348	96	13	54	753
652			Gastroenterological Surgery	217	445	75	26	47	810
653			Thoracic Surgery	167	272	61	17	34	551

Table 19. Number of Research Topics by Field of Specialization / by Status of Research Topic (Japan)

Code	Subject	Subdivision	Item	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total
654	M		Neurosurgery	184	320	84	21	46	655
655			Orthopedic Surgery	397	505	168	48	64	1,182
656			Anesthesiology and Rescue Medicine	320	350	58	29	40	797
657			Urology	162	249	65	34	41	551
658			Obstetrics and Gynecology	222	337	104	29	36	728
659			Oto-rhino-laryngology	206	223	56	20	31	536
660			Ophthalmology	164	265	57	34	26	546
661			Pediatric Surgery	49	90	14	3	8	164
662			Formative Surgery	42	74	17	4	10	147
			Surgery total	2,372	3,478	855	278	437	7,420
671	E		Oral Anatomy and Morphological Basic Dentistry	154	254	90	37	22	557
672	D		Functional Basic Dentistry	111	218	58	19	22	428
673	I		Morbid Dentistry (inclu. Dental Radiology)	115	212	38	14	36	415
674	C		Conservative Dentistry	183	383	54	34	35	689
675	I		Prosthodontics and Dental Technology	256	572	93	47	54	1,022
676	N		Oral Surgery	375	576	106	43	44	1,144
677			Orthodontics, Pedodontics and Social Dentistry	317	498	119	69	64	1,067
678	E		Periodontological Dentistry	54	138	26	19	21	258
	Dentistry total		1,565	2,851	584	282	298	5,580	
681			Chemical Pharmaceuticals	224	364	218	68	34	908
682		Physical Pharmaceuticals	96	197	80	32	14	419	
683		Biopharmaceutics	333	340	258	67	46	1,044	
684		Molecular Pharmaceuticals	88	99	88	10	15	300	
685		Environmental Pharmaceuticals	34	44	42	11	0	131	
		Pharmaceutics total	775	1,044	686	188	109	2,802	
691		Medical Sociology	185	124	140	20	25	494	
692		Human Genetics	69	72	78	32	8	259	
693		Applied Pharmacology and Medical Pharmacology	93	156	74	16	14	353	
694		Pathological Examination	98	162	83	16	10	369	
696		Science of Basic and Local Nursing	462	385	359	22	73	1,301	
697		Science of Clinical Nursing	604	496	345	25	70	1,540	
		Medicine in General total	1,511	1,395	1,079	131	200	4,316	
	MEDICINE Total			11,396	15,856	6,864	2,129	1,841	38,086
702	I N T E R D I S C I P L I N A R Y		History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	206	20	42	10	9	287
703			Physical Education	1,512	494	756	96	132	2,990
704			Human Geography	425	14	58	39	33	569
705			Physical Geography	195	24	60	38	5	322
			Geography total	620	38	118	77	38	891
706			Home Science(inclu. Cloth/Living Environments)	652	228	391	33	34	1,338
707			Food Culture	348	226	325	25	41	965
			Domestic Science total	1,000	454	716	58	75	2,303
708			Science of Cultural Property	35	6	19	11	2	73
711			Science Education	270	71	120	24	18	503
712	A R E A		Educational Engineering	384	144	177	23	37	765
713			Curriculum Studies	1,591	163	278	40	89	2,161
714			Japanese Language Education	326	58	66	24	24	498
			Science Education·Curriculum Education total	2,571	436	641	111	168	3,927
721			Statistics	174	33	58	12	10	287
731			Computer Science	825	353	377	51	70	1,676
732			Intelligent Informatics	765	350	357	58	102	1,632
733			Study of Information System (Inclu. Library and Information Science)	668	233	232	49	76	1,258
			Information Science total	2,258	936	966	158	248	4,566
741	I		Social System Engineering	455	121	185	36	47	844
751			Natural Disaster Science	42	19	39	10	1	111
761			Plasma Science and Technology	99	136	112	34	15	396
772			Nuclear Fusion	21	47	37	17	6	128

Table 19. Number of Research Topics by Field of Specialization / by Status of Research Topic (Japan)

Code	Subject	Subdivision	Item	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total
773	N T E R D I S C I P L I N A R Y A R E A		Energy Science General	89	59	43	22	5	218
774			Nuclear Power Science	87	111	113	31	7	349
			Energy total	197	217	193	70	18	695
801			Environmental Dynamic Analysis	136	80	135	55	14	420
802			Environmental Influence Assessment (inclu. Radiobiology)	127	115	126	41	10	419
803			Environmental Preservation	271	120	171	57	34	653
			Environmental Science total	534	315	432	153	58	1,492
811			Biological Organic Chemistry	114	121	97	30	9	371
812			Structured Biochemistry	81	106	112	31	7	337
813			Functional Biochemistry	159	132	147	48	13	499
			Biological Chemistry total	354	359	356	109	29	1,207
821			Biophysics	133	99	161	45	17	455
822			Molecular Biology	322	321	226	105	42	1,016
823			Cell Biology	194	218	127	55	40	634
824			Developmental Biology	128	91	72	27	20	338
			Basic Biology total	777	729	586	232	119	2,443
831			Neuroanatomy and Neuropathology	86	92	62	35	8	283
832			Neurochemistry and Neuropharmacology	53	129	82	28	13	305
833			Neuro Science in General	192	186	150	38	31	597
834			Neuro and Muscular Physiology	137	145	88	34	18	422
			Neuro Science (inclu. Brain Science) total	468	552	382	135	70	1,607
841			Laboratory Animal Science	49	57	52	13	11	182
851			Medical Organism Engineering and Material Science of Organism	232	247	317	57	40	893
			INTERDISCIPLINARY AREA Total	11,583	5,169	5,970	1,382	1,090	25,194
999	WIDE AREA Total			1,716	393	470	162	151	2,892
	Item n.a. Total			36,108	16,694	12,557	3,270	3,654	72,283
	Grand Total			125,761	53,019	44,207	12,517	11,660	247,164

Table 20. Number of Research Topics by Field of Specialization / by Status of Research Topic (National Institutions)

Code	Subject	Subdivision	Item	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total
211	ARTS • HUMANITIES		Philosophy	344	17	20	8	20	409
212			Chinese Philosophy	88	1	9	1	9	108
213			Indian Philosophy (inclu. Buddhist Studies)	52	1	6	6	3	68
214			Religion	64	0	5	3	4	76
215			Ethics	135	9	11	3	3	161
216			History of Philosophy	121	2	8	5	7	143
217			Aesthetics (inclu. Arts)	546	21	30	16	36	649
218			Art History	192	9	12	12	12	237
		Philosophy total	1,542	60	101	54	94	1,851	
221			Experimental Psychology	261	67	97	34	22	481
222			Educational and Social	807	118	194	46	40	1,205
223			Sociology	469	22	110	45	30	676
224			Education	1,059	112	239	69	60	1,539
225			Cultural Anthropology (inclu. Ethnology and Folklore)	231	9	52	34	17	343
		Psychology • Sociology • Education Cultural Anthropology total	2,827	328	692	228	169	4,244	
231			Japanese History	324	16	34	8	23	405
232			Oriental History	216	9	24	12	7	268
233			European History	238	7	21	8	16	290
234			Archaeology (inclu. Prehistory)	135	14	27	15	6	197
		History total	913	46	106	43	52	1,160	
241			Japanese Language	209	14	24	4	5	256
242			Japanese Literature	406	7	12	4	16	445
243			Chinese Language and Literature	192	3	15	3	6	219
244			English Language and Literature	896	26	44	16	30	1,012
245			French Language and Literature	257	14	12	5	3	291
246			German Language and Literature	298	10	18	8	18	352
247			Other Foreign Languages and Literatures	249	10	17	12	10	298
248			Linguistics and Phonetics	472	26	52	37	36	623
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	156	5	6	2	1	170
			Literature total	3,135	115	200	91	125	3,666
	ARTS • HUMANITIES Total	8,417	549	1,099	416	440	10,921		
261	LAW	Basic Science of Law	157	10	19	7	10	203	
262		Public Law	184	7	10	5	6	212	
263		International Law	93	0	11	3	4	111	
264		Civil Law	280	10	32	6	8	336	
265		Social Law	82	2	13	3	5	105	
266		Criminal Law	67	0	9	1	4	81	
267		Politics	400	14	37	22	32	505	
	LAW Total	1,263	43	131	47	69	1,553		
271	ECONOMICS	General Theory of Economics	380	14	51	38	28	511	
272		Economical Statistics	67	5	16	10	7	105	
273		Economic Policy (inclu. Economic Condition)	365	20	83	46	14	528	
274		Economic History	143	4	22	9	6	184	
275		Public Finance, Money and Banking	154	6	29	8	10	207	
276		Commercial Science	60	0	13	4	2	79	
277		Business Administration	217	17	44	28	19	325	
278		Accounting	147	3	22	7	10	189	
	ECONOMICS Total	1,533	69	280	150	96	2,128		
301	SCIENCE		Algebra	296	13	33	13	13	368
302			Geometry	298	11	41	27	13	390
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	313	37	96	25	19	490
305			Basic Analysis	246	10	38	24	13	331
306			Larger-area Analysis	117	11	26	13	7	174
		Mathematics total	1,270	82	234	102	65	1,753	
311		Astronomy	79	62	97	84	8	330	
321		Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	145	126	254	305	43	873	

Table 20. Number of Research Topics by Field of Specialization / by Status of Research Topic (National Institutions)

Code	Subject	Subdivision	Item	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total
322	S C I E N C E		Solid-State Physics I (Optical Properties, Semiconductor and Dielectrics)	158	153	174	37	13	535
323			Solid-State Physics II (Magnetism, Metal Physics,	134	158	173	64	30	559
324			Physical Properties in General (inclu. Basic Theories)	146	68	104	40	12	370
325			Physics in General	130	108	83	39	16	376
			Physics total	713	613	788	485	114	2,713
331			Physics of Solid Earth	121	72	129	55	12	389
332			Meteorology, Oceanography and Hydrology	161	71	134	70	14	450
333			Aeronomy	22	17	38	34	2	113
334			Geology	117	16	68	51	12	264
335			Stratigraphy and Paleontology	70	8	30	27	5	140
336			Mineralogy, Petrology and Study of Mineral Deposit	151	42	81	59	4	337
337			Geochemistry	50	42	72	28	9	201
			Earth Science total	692	268	552	324	58	1,894
341			Physical Chemistry	318	249	154	50	32	803
342			Organic Chemistry	265	231	105	21	27	649
343			Inorganic Chemistry	148	105	98	10	8	369
344			Function, Properties and Materials in Chemistry	138	107	95	17	7	364
345			Substance Transformation	28	22	22	6	6	84
346			Separation, Refining and Identification	94	58	54	7	14	227
			Chemistry total	991	772	528	111	94	2,496
351			Genetics	109	63	79	26	13	290
352			Ecology	240	72	153	77	15	557
353			Plant Physiology	118	89	66	36	6	315
354			Morphology, Structure of Organism	79	51	38	25	5	198
355			Animal Physiology and	96	27	47	23	5	198
356			Morphology and Taxonomy	152	23	61	87	12	335
			Biology total	794	325	444	274	56	1,893
361			Physical Anthropology (inclu. Physiological Anthropology)	38	14	18	28	6	104
	SCIENCE Total			4,577	2,136	2,661	1,408	401	11,183
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	104	110	87	23	15	339
402			Surface Physics	76	84	51	17	8	236
403			Applied Optics and Quantum Optics	146	89	87	12	23	357
404			General Applied Physics	74	54	58	11	11	208
405			Fundamentals of Engineering	53	26	36	5	5	125
			Applied Physics-Fundamentals of Engineering total	453	363	319	68	62	1,265
411			Materials for Machines and Strength of Materials	273	144	165	15	31	628
412			Workshop Processes and Production Engineering	188	139	121	11	21	480
413			Design Engineering, Machine Elements and Tribology	135	62	84	4	15	300
414			Fluid Mechanics	240	172	131	29	22	594
415			Heat Engineering	229	213	153	28	30	653
416			Mechanics and Control Engineering	203	96	113	17	15	444
417			Intelligent Mechanics and Machine System	237	124	118	17	25	521
			Machine Engineering total	1,505	950	885	121	159	3,620
421			Electric Power Engineering and Electric Machinery	212	137	155	6	14	524
422			Electronic and Electric Materials Engineering	222	223	131	17	20	613
423			Electron Devices and Apparatus Engineering	226	154	140	17	32	569
424			Information and Communication Engineering	462	287	207	25	60	1,041

Table 20. Number of Research Topics by Field of Specialization / by Status of Research Topic (National Institutions)

Code	Subject	Subdivision	Item	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total
425	E N G I N E E R I N G		System Engineering	92	54	39	9	15	209
427			Electronic Measurements	181	92	102	14	21	410
428			Control Engineering	226	91	128	13	17	475
			Electric and Electronic Engineering	1,621	1,038	902	101	179	3,841
431			Construction Materials and Dynamics in General Civil Engineering	99	46	74	9	8	236
432			Structural Engineering and Seismology	140	72	100	15	15	342
433			Ground Engineering	162	81	122	36	15	416
434			Hydraulics and River Engineering	182	130	90	35	10	447
435			Traffic Engineering and Regional Planning	111	66	84	19	10	290
436			Civil Environmental System	106	85	83	25	12	311
			Civil Engineering total	800	480	553	139	70	2,042
441		G	Building Structure and Materials	192	85	89	22	25	413
442			Building Science and Building Equipment	101	46	66	13	12	238
443			City Planning and Building Planning	289	87	105	48	19	548
444			Architectural History and Design	161	33	28	9	13	244
			Architecture total	743	251	288	92	69	1,443
451		N	Physical Metallurgy	83	118	77	25	16	319
452			Inorganic Materials and	176	155	103	19	32	485
453			Composed Materials and Properties	53	44	43	6	7	153
454			Structural and Functional Materials	104	108	100	20	20	352
455		R	Metallurgy and Material	150	130	110	12	17	419
456			Metal Productive Engineering	68	51	54	8	10	191
			Material Engineering total	634	606	487	90	102	1,919
461		G	Chemical Engineering in General	147	119	73	8	12	359
462			Reaction and Separation Engineering	84	86	33	12	13	228
463			Catalyst and Chemical Process	93	53	43	6	10	205
464			Bioengineering	110	133	94	19	20	376
465			Industrial Analytical Chemistry	72	61	42	7	8	190
			Process Engineering total	506	452	285	52	63	1,358
471			Industrial Physical Chemistry	105	99	47	14	13	278
472			Industrial Inorganic Chemistry	59	48	39	7	10	163
473			Industrial Organic Chemistry	45	49	23	6	5	128
474			Synthetic Chemistry	159	135	45	8	14	361
475			Polymer Synthesis	169	75	43	1	16	304
476			Polymer Structure and Property (inclu. Fiber)	126	99	48	22	17	312
			Industrial Chemistry total	663	505	245	58	75	1,546
481			Aeronautics	77	41	38	14	4	174
482			Ship Engineering	92	60	39	4	4	199
483			Marine Engineering	19	14	23	1	1	58
484			Resource Development Engineering	48	69	33	16	9	175
			Synthetic Engineering total	236	184	133	35	18	606
			ENGINEERING Total	7,161	4,829	4,097	756	797	17,640
501	A G R I C U L T U R E		Plant Breeding	55	52	41	14	11	173
502			Crop Science	78	48	22	29	10	187
503			Horticulture and Landscape Architecture	173	79	42	15	13	322
504			Plant Protection	94	60	47	8	16	225
505			Sericultural Science and Economic Entomology	26	23	22	1	2	74
			Agriculture total	426	262	174	67	52	981
511			Plant Fertilizer and Manure and Soil Science	101	52	32	28	10	223
512			Applied Microbiochemistry and Applied Biochemistry	181	140	112	48	38	519
513			Biological Productive Chemistry and Bioorganic Chemistry	74	45	53	6	12	190
514			Food Science and Nutritional Chemistry	134	122	117	31	21	425

Table 20. Number of Research Topics by Field of Specialization / by Status of Research Topic (National Institutions)

Code	Subject	Subdivision	Item	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total
	A		Agricultural Chemistry total	490	359	314	113	81	1,357
521			Forestry	220	97	115	54	20	506
522	G		Wood Science	107	102	72	11	10	302
			Forestry total	327	199	187	65	30	808
531	R		Fisheries in General	182	84	134	42	26	468
532			Fisheries Chemistry	57	59	38	9	6	169
			Fisheries total	239	143	172	51	32	637
541	I		Agricultural Economics	190	13	49	32	14	298
551	C		Irrigation, Drainage and Reclamation Engineering and Rural Planning	123	69	68	33	10	303
552	U		Agricultural Machinery	62	81	57	10	12	222
553	L		Biological Environment	45	21	8	9	8	91
			Agricultural Engineering total	230	171	133	52	30	616
561	T		Animal Science and Grassland Science	72	75	34	16	7	204
562	U		Applied Animal Science	88	63	44	27	6	228
563	R		Basic Veterinary Medicine and Basic Animal Science	79	89	52	30	12	262
564			Applied Veterinary Medicine	70	63	59	18	15	225
	E		Animal Science·Veterinary Medicine total	309	290	189	91	40	919
571			Biological Resource Science	34	26	18	22	6	106
572			Applied Molecular Cell Biology	39	20	24	11	6	100
			Interdisciplinary Agricultural Science total	73	46	42	33	12	206
			AGRICULTURE Total	2,284	1,483	1,260	504	291	5,822
601			Anatomy in General (inclu. Histology, Embryology)	104	142	51	25	3	325
602			Physiology in General	101	156	66	24	18	365
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	58	55	47	15	8	183
604			Pharmacology in General	53	117	38	21	6	235
605			Medical Chemistry in General	61	111	54	39	16	281
606			Pathological Medical Chemistry	32	63	36	19	11	161
	M		Physiology total	409	644	292	143	62	1,550
611			Hominal Pathology	108	144	46	31	16	345
612	E		Experimental Pathology	46	94	43	25	14	222
613	D		Parasitology (inclu. Medical Zoology)	24	44	40	46	2	156
614			Bacteriology (inclu. Eumycetes)	70	77	54	23	5	229
615	I		Virology	52	71	70	26	7	226
616			Immunology	83	127	53	27	33	323
	C		Pathology total	383	557	306	178	77	1,501
621			Hygiene	42	66	53	27	4	192
622	I		Public Health and Health Science	172	121	201	75	31	600
623			Legal Medicine	69	61	39	14	8	191
	N		Social Medicine total	283	248	293	116	43	983
631			Internal Medicine in General	83	156	67	36	17	359
632	E		Gastroenterology	127	189	53	26	20	415
633			Internal Medicine Respiratory System	60	95	31	15	4	205
634			Neurological Medicine	102	111	57	25	14	309
635			Cardioangiopathy	147	214	66	28	16	471
636			Pediatrics	129	186	86	31	18	450
637			Dermatology	91	108	25	10	23	257
638			Radiology	181	278	103	14	27	603
639			Neuropsychiatry	142	168	74	17	17	418
641			Hematology	90	140	56	24	9	319
642			Internal Medicine of Kidney	38	92	26	10	10	176
643			Embryology and Newborn	3	16	2	1	1	23
644			Endocrinology	57	78	33	16	11	195
645			Metabolic Science	51	93	29	11	11	195
			Internal Medicine total	1,301	1,924	708	264	198	4,395
651			Surgery in General	98	143	46	6	27	320
652			Gastroenterological Surgery	109	235	29	12	23	408
653			Thoracic Surgery	72	112	31	8	11	234

Table 20. Number of Research Topics by Field of Specialization / by Status of Research Topic (National Institutions)

Code	Subj ect	Subd ivisi on	I t e m	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total	
654	M		Neurosurgery	62	170	40	9	16	297	
655			Orthopedic Surgery	169	248	78	24	30	549	
656			Anesthesiology and Rescue Medicine	172	181	33	19	23	428	
657			Urology	69	128	33	17	22	269	
658			Obstetrics and Gynecology	113	167	43	18	18	359	
659			Oto-rhino-laryngology	77	123	22	10	13	245	
660			Ophthalmology	73	133	23	23	13	265	
661			Pediatric Surgery	25	57	7	1	6	96	
662			Formative Surgery	11	23	5	1	4	44	
			Surgery total		1,050	1,720	390	148	206	3,514
671	E		Oral Anatomy and Morphological Basic Dentistry	42	95	30	25	7	199	
672	D		Functional Basic Dentistry	35	72	22	11	10	150	
673	I		Morbid Dentistry (inclu. Dental Radiology)	44	98	12	4	13	171	
674	C		Conservative Dentistry	54	132	20	17	4	227	
675	I		Prosthodontics and Dental Technology	85	239	36	28	23	411	
676	N		Oral Surgery	173	263	56	18	18	528	
677			Orthodontics, Pedodontics and Social Dentistry	124	242	60	33	28	487	
678	E		Periodontological Dentistry	23	75	13	15	7	133	
	Dentistry total			580	1,216	249	151	110	2,306	
681				Chemical Pharmaceuticals	70	90	50	23	8	241
682		Physical Pharmaceuticals		24	47	25	15	1	112	
683		Biopharmaceutics		94	102	70	28	18	312	
684		Molecular Pharmaceuticals		31	48	27	3	7	116	
685		Environmental Pharmaceuticals		9	12	8	5	0	34	
		Pharmaceutics total			228	299	180	74	34	815
691				Medical Sociology	57	63	39	10	10	179
692				Human Genetics	30	33	36	23	7	129
693				Applied Pharmacology and Medical Pharmacology	28	73	19	8	10	138
694				Pathological Examination	46	74	45	13	5	183
696	Science of Basic and Local Nursing		131	132	122	9	23	417		
697	Science of Clinical Nursing		218	201	113	8	25	565		
	Medicine in General total			510	576	374	71	80	1,611	
	MEDICINE Total			4,744	7,184	2,792	1,145	810	16,675	
702	I N T E R D I S C I P L I N A R Y		History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	85	11	19	6	5	126	
703			Physical Education	575	161	263	50	40	1,089	
704			Human Geography	195	5	26	17	16	259	
705			Physical Geography	102	14	34	25	5	180	
			Geography total		297	19	60	42	21	439
706			Home Science(inclu. Cloth/Living Environments)	146	24	99	9	6	284	
707			Food Culture	35	13	43	8	6	105	
			Domestic Science total		181	37	142	17	12	389
708			Science of Cultural Property	24	2	11	11	2	50	
711			Science Education	167	43	81	19	14	324	
712	A R E A		Educational Engineering	123	49	70	7	15	264	
713			Curriculum Studies	820	80	177	32	49	1,158	
714			Japanese Language Education	136	28	46	12	9	231	
			Science Education·Curriculum Education total		1,246	200	374	70	87	1,977
721			Statistics	71	11	24	6	6	118	
731			Computer Science	434	223	205	32	35	929	
732			Intelligent Informatics	384	222	202	37	60	905	
733			Study of Information System (Inclu. Library and Information Science)	164	112	78	27	25	406	
			Information Science total		982	557	485	96	120	2,240
741			Social System Engineering	161	61	72	17	14	325	
751	I		Natural Disaster Science	23	12	23	5	1	64	
761			Plasma Science and Technology	75	107	87	29	8	306	
772			Nuclear Fusion	14	38	26	14	5	97	

Table 20. Number of Research Topics by Field of Specialization / by Status of Research Topic (National Institutions)

Code	Subject	Subdivision	Item	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total
773	N T E R D I S C I P L I N A R Y A R E A		Energy Science General	56	45	28	17	4	150
774			Nuclear Power Science	77	102	89	22	5	295
			Energy total	147	185	143	53	14	542
801			Environmental Dynamic Analysis	85	52	71	45	5	258
802			Environmental Influence Assessment (inclu. Radiobiology)	52	62	71	26	6	217
803			Environmental Preservation	131	79	80	30	10	330
			Environmental Science total	268	193	222	101	21	805
811			Biological Organic Chemistry	81	77	59	20	5	242
812			Structured Biochemistry	48	55	63	18	4	188
813			Functional Biochemistry	95	76	82	26	7	286
			Biological Chemistry total	224	208	204	64	16	716
821			Biophysics	81	76	100	30	12	299
822			Molecular Biology	211	222	128	64	32	657
823			Cell Biology	134	128	58	39	22	381
824			Developmental Biology	104	73	46	19	12	254
			Basic Biology total	530	499	332	152	78	1,591
831			Neuroanatomy and Neuropathology	54	44	42	19	4	163
832			Neurochemistry and Neuropharmacology	24	61	38	18	6	147
833			Neuro Science in General	114	115	83	23	17	352
834			Neuro and Muscular Physiology	70	85	34	21	12	222
			Neuro Science (inclu. Brain Science) total	262	305	197	81	39	884
841			Laboratory Animal Science	29	19	26	9	6	89
851			Medical Organism Engineering and Material Science of Organism	116	145	153	35	22	471
	INTERDISCIPLINARY AREA Total			5,296	2,732	2,837	844	512	12,221
999	WIDE AREA Total			501	170	171	81	44	967
	Item n.a. Total			15,718	9,443	6,402	1,976	1,879	35,418
	Grand Total			51,494	28,638	21,730	7,327	5,339	114,528

Table 21. Number of Research Topics by Field of Specialization / by Status of Research Topic (Municipal Institutions)

Code	Subj ect	Subd ivisi on	I t e m	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total
211	A R T S · H U M A N I T I E S		Philosophy	64	1	6	1	2	74
212			Chinese Philosophy	18	0	3	0	2	23
213			Indian Philosophy (inclu. Buddhist Studies)	6	2	3	1	0	12
214			Religion	4	0	1	0	0	5
215			Ethics	11	1	0	0	1	13
216			History of Philosophy	37	1	1	0	1	40
217			Aesthetics (inclu. Arts)	144	13	17	8	15	197
218			Art History	34	2	4	3	2	45
		Philosophy total	318	20	35	13	23	409	
221			Experimental Psychology	30	6	24	7	1	68
222			Educational and Social	126	11	46	2	8	193
223			Sociology	225	21	70	17	14	347
224			Education	134	21	15	8	9	187
225			Cultural Anthropology (inclu. Ethnology and Folklore)	28	3	9	10	0	50
		Psychology·Sociology·Education Cultural Anthropology total	543	62	164	44	32	845	
231			Japanese History	49	1	5	1	2	58
232			Oriental History	30	0	3	3	2	38
233			European History	77	1	4	0	3	85
234			Archaeology (inclu. Prehistory)	5	1	0	2	0	8
		History total	161	3	12	6	7	189	
241			Japanese Language	34	0	2	0	2	38
242			Japanese Literature	89	0	2	0	3	94
243			Chinese Language and Literature	32	0	4	3	0	39
244			English Language and Literature	238	7	11	3	13	272
245			French Language and Literature	54	0	10	1	3	68
246			German Language and Literature	54	0	3	1	2	60
247			Other Foreign Languages and Literatures	41	0	7	2	3	53
248			Linguistics and Phonetics	122	4	17	9	5	157
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	14	0	0	0	0	14
			Literature total	678	11	56	19	31	795
	ARTS·HUMANITIES Total	1,700	96	267	82	93	2,238		
261	L A W	Basic Science of Law	27	1	0	0	0	28	
262		Public Law	33	1	4	0	3	41	
263		International Law	24	0	3	0	0	27	
264		Civil Law	39	0	5	1	2	47	
265		Social Law	19	1	1	0	1	22	
266		Criminal Law	7	0	2	0	0	9	
267		Politics	86	2	11	8	6	113	
	LAW Total	235	5	26	9	12	287		
271	E C O N O M I C S	General Theory of Economics	122	8	19	8	16	173	
272		Economical Statistics	18	2	3	2	2	27	
273		Economic Policy (inclu. Economic Condition)	127	14	27	12	13	193	
274		Economic History	40	2	8	1	0	51	
275		Public Finance, Money and Banking	56	4	12	1	2	75	
276		Commercial Science	42	3	4	2	0	51	
277		Business Administration	87	2	13	3	8	113	
278		Accounting	54	3	5	5	1	68	
	ECONOMICS Total	546	38	91	34	42	751		
301	S C I E N C E		Algebra	30	3	3	1	0	37
302			Geometry	21	0	4	4	2	31
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	45	4	8	2	1	60
305			Basic Analysis	23	2	4	4	0	33
306			Larger-area Analysis	7	0	6	0	2	15
		Mathematics total	126	9	25	11	5	176	
311		Astronomy	0	0	4	1	0	5	
321		Elementary Particles Physics, Nuclear Physics, Cosmic Ray Phvsics, and Cosmic Physics	15	5	25	15	4	64	

Table 21. Number of Research Topics by Field of Specialization / by Status of Research Topic (Municipal Institutions)

Code	Subject	Subdivision	Item	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total
322	S C I E N C E		Solid-State Physics I (Optical Properties, Semiconductor and Dielectrics)	16	11	18	7	5	57
323			Solid-State Physics II (Magnetism, Metal Physics,	8	15	18	7	1	49
324			Physical Properties in General (inclu. Basic Theories)	15	2	14	2	0	33
325			Physics in General	9	13	7	4	2	35
			Physics total	63	46	82	35	12	238
331			Physics of Solid Earth	3	1	4	1	0	9
332			Meteorology, Oceanography and Hydrology	6	2	9	4	0	21
333			Aeronomy	0	0	1	1	0	2
334			Geology	11	6	7	4	0	28
335			Stratigraphy and Paleontology	6	0	2	2	0	10
336			Mineralogy, Petrology and Study of Mineral Deposit	8	4	2	0	1	15
337			Geochemistry	0	1	3	3	1	8
			Earth Science total	34	14	28	15	2	93
341			Physical Chemistry	37	13	22	7	4	83
342			Organic Chemistry	38	8	11	6	1	64
343			Inorganic Chemistry	14	6	10	2	1	33
344			Function, Properties and Materials in Chemistry	11	11	3	0	0	25
345			Substance Transformation	4	3	0	0	1	8
346			Separation, Refining and Identification	13	5	9	2	1	30
			Chemistry total	117	46	55	17	8	243
351			Genetics	12	1	16	3	2	34
352			Ecology	22	13	10	8	1	54
353			Plant Physiology	34	21	15	6	3	79
354			Morphology, Structure of Organism	2	0	3	2	1	8
355			Animal Physiology and	3	3	8	4	1	19
356			Morphology and Taxonomy	19	0	1	6	1	27
			Biology total	92	38	53	29	9	221
361			Physical Anthropology (inclu. Physiological Anthropology)	8	0	6	2	0	16
	SCIENCE Total			440	153	253	110	36	992
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	16	8	13	5	1	43
402			Surface Physics	5	3	2	0	0	10
403			Applied Optics and Quantum Optics	9	9	13	1	1	33
404			General Applied Physics	4	7	3	0	3	17
405			Fundamentals of Engineering	5	2	6	0	0	13
			Applied Physics-Fundamentals of Engineering total	39	29	37	6	5	116
411			Materials for Machines and Strength of Materials	20	33	13	2	2	70
412			Workshop Processes and Production Engineering	22	12	17	2	1	54
413			Design Engineering, Machine Elements and Tribology	11	5	9	2	1	28
414			Fluid Mechanics	19	12	17	6	3	57
415			Heat Engineering	11	24	12	3	0	50
416			Mechanics and Control Engineering	18	8	6	0	2	34
417			Intelligent Mechanics and Machine System	15	7	10	0	6	38
			Machine Engineering total	116	101	84	15	15	331
421			Electric Power Engineering and Electric Machinery	15	13	18	2	0	48
422			Electronic and Electric Materials Engineering	9	9	4	3	0	25
423			Electron Devices and Apparatus Engineering	12	15	16	0	3	46
424			Information and Communication Engineering	65	29	40	4	6	144

Table 21. Number of Research Topics by Field of Specialization / by Status of Research Topic (Municipal Institutions)

Code	Subject	Subdivision	Item	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total
425	ENGINEERING		System Engineering	14	5	2	0	0	21
427			Electronic Measurements	12	1	8	1	1	23
428			Control Engineering	22	20	17	2	1	62
			Electric and Electronic Engineering	149	92	105	12	11	369
431			Construction Materials and Dynamics in General Civil Engineering	7	3	4	0	0	14
432			Structural Engineering and Seismology	12	11	15	1	2	41
433			Ground Engineering	5	8	7	0	2	22
434			Hydraulics and River Engineering	9	1	5	2	0	17
435			Traffic Engineering and Regional Planning	8	4	6	1	1	20
436			Civil Environmental System	8	7	9	1	0	25
			Civil Engineering total	49	34	46	5	5	139
441		N	Building Structure and Materials	24	16	24	4	3	71
442			Building Science and Building Equipment	27	8	31	4	0	70
443			City Planning and Building Planning	58	11	18	4	3	94
444			Architectural History and Design	27	1	8	0	1	37
			Architecture total	136	36	81	12	7	272
451		N	Physical Metallurgy	8	4	2	0	1	15
452			Inorganic Materials and	3	3	3	0	0	9
453			Composed Materials and Properties	6	0	5	0	0	11
454			Structural and Functional Materials	5	10	7	0	0	22
455		R	Metallurgy and Material	6	8	3	0	0	17
456			Metal Productive Engineering	3	4	0	0	0	7
			Material Engineering total	31	29	20	0	1	81
461		G	Chemical Engineering in General	7	13	9	0	0	29
462			Reaction and Separation Engineering	6	6	2	0	2	16
463			Catalyst and Chemical Process	6	0	3	2	0	11
464			Bioengineering	11	13	8	1	2	35
465			Industrial Analytical Chemistry	6	6	4	0	1	17
			Process Engineering total	36	38	26	3	5	108
471			Industrial Physical Chemistry	19	9	9	4	0	41
472			Industrial Inorganic Chemistry	7	2	1	0	0	10
473			Industrial Organic Chemistry	3	0	0	1	0	4
474			Synthetic Chemistry	1	6	4	4	0	15
475			Polymer Synthesis	11	9	3	0	1	24
476			Polymer Structure and Property (inclu. Fiber)	5	8	11	1	8	33
			Industrial Chemistry total	46	34	28	10	9	127
481			Aeronautics	5	6	3	2	2	18
482			Ship Engineering	4	6	2	0	0	12
483			Marine Engineering	2	4	2	0	0	8
484			Resource Development Engineering	3	0	6	0	0	9
			Synthetic Engineering total	14	16	13	2	2	47
			ENGINEERING Total	616	409	440	65	60	1,590
501	AGRICULTURE		Plant Breeding	7	12	14	5	3	41
502			Crop Science	7	4	2	0	2	15
503			Horticulture and Landscape Architecture	53	28	11	2	2	96
504			Plant Protection	13	9	6	5	0	33
505			Sericultural Science and Economic Entomology	1	1	0	0	0	2
			Agriculture total	81	54	33	12	7	187
511			Plant Fertilizer and Manure and Soil Science	15	0	8	2	4	29
512			Applied Microbiochemistry and Applied Biochemistry	23	10	11	3	7	54
513			Biological Productive Chemistry and Bioorganic Chemistry	8	11	5	3	1	28
514			Food Science and Nutritional Chemistry	57	37	36	6	9	145

Table 21. Number of Research Topics by Field of Specialization / by Status of Research Topic (Municipal Institutions)

Code	Subject	Subdivision	Item	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total
	A		Agricultural Chemistry total	103	58	60	14	21	256
521			Forestry	18	5	4	4	0	31
522	G		Wood Science	7	5	4	1	1	18
			Forestry total	25	10	8	5	1	49
531	R		Fisheries in General	7	5	2	0	0	14
532			Fisheries Chemistry	2	0	0	0	0	2
			Fisheries total	9	5	2	0	0	16
541	I		Agricultural Economics	30	4	10	6	4	54
551	C		Irrigation, Drainage and Reclamation Engineering and Rural Planning	17	2	9	2	0	30
552	U		Agricultural Machinery	4	6	4	0	2	16
553	L		Biological Environment	7	1	3	1	1	13
			Agricultural Engineering total	28	9	16	3	3	59
561	T		Animal Science and Grassland Science	9	3	4	0	1	17
562	U		Applied Animal Science	9	0	8	0	1	18
563	R		Basic Veterinary Medicine and Basic Animal Science	14	3	7	1	1	26
564			Applied Veterinary Medicine	11	11	5	3	0	30
	E		Animal Science·Veterinary Medicine total	43	17	24	4	3	91
571			Biological Resource Science	5	3	4	0	0	12
572			Applied Molecular Cell Biology	3	3	4	0	0	10
			Interdisciplinary Agricultural Science total	8	6	8	0	0	22
			AGRICULTURE Total	327	163	161	44	39	734
601			Anatomy in General (inclu. Histology, Embryology)	19	13	8	12	8	60
602			Physiology in General	14	20	11	4	0	49
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	22	16	21	5	1	65
604			Pharmacology in General	13	27	7	2	2	51
605			Medical Chemistry in General	15	15	6	3	2	41
606			Pathological Medical Chemistry	11	11	6	3	0	31
	M		Physiology total	94	102	59	29	13	297
611			Hominal Pathology	13	26	15	9	0	63
612	E		Experimental Pathology	11	21	6	3	1	42
613	D		Parasitology (inclu. Medical Zoology)	8	14	7	2	1	32
614			Bacteriology (inclu. Eumycetes)	10	12	22	8	8	60
615	I		Virology	2	7	9	1	1	20
616			Immunology	2	9	8	6	1	26
	C		Pathology total	46	89	67	29	12	243
621			Hygiene	12	8	22	6	0	48
622	I		Public Health and Health Science	61	38	75	9	20	203
623			Legal Medicine	13	15	2	2	0	32
	N		Social Medicine total	86	61	99	17	20	283
631			Internal Medicine in General	21	38	25	5	2	91
632	E		Gastroenterology	28	61	7	8	2	106
633			Internal Medicine Respiratory System	15	25	12	1	1	54
634			Neurological Medicine	11	21	15	3	2	52
635			Cardioangiopathy	20	30	11	4	5	70
636			Pediatrics	39	30	15	2	2	88
637			Dermatology	19	27	6	5	5	62
638			Radiology	26	25	15	1	7	74
639			Neuropsychiatry	30	22	11	2	5	70
641			Hematology	12	18	9	3	0	42
642			Internal Medicine of Kidney	7	11	9	2	0	29
643			Embryology and Newborn	3	7	6	0	0	16
644			Endocrinology	5	8	5	1	0	19
645			Metabolic Science	11	16	4	2	1	34
			Internal Medicine total	247	339	150	39	32	807
651			Surgery in General	16	28	4	3	5	56
652			Gastroenterological Surgery	10	64	9	4	6	93
653			Thoracic Surgery	10	13	2	3	1	29

Table 21. Number of Research Topics by Field of Specialization / by Status of Research Topic (Municipal Institutions)

Code	Subject	Subdivision	Item	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total
654	M		Neurosurgery	12	26	16	3	6	63
655			Orthopedic Surgery	52	56	29	5	9	151
656			Anesthesiology and Rescue Medicine	30	60	5	7	6	108
657			Urology	20	28	7	5	4	64
658			Obstetrics and Gynecology	22	29	15	2	3	71
659			Oto-rhino-laryngology	22	25	10	3	3	63
660			Ophthalmology	14	32	5	1	2	54
661			Pediatric Surgery	8	4	0	0	0	12
662			Formative Surgery	7	1	0	0	1	9
				Surgery total	223	366	102	36	46
671	E		Oral Anatomy and Morphological Basic Dentistry	1	14	6	1	1	23
672	D		Functional Basic Dentistry	7	9	1	0	1	18
673	I		Morbid Dentistry (inclu. Dental Radiology)	1	1	4	0	5	11
674	C		Conservative Dentistry	6	9	4	0	0	19
675			Prosthodontics and Dental Technology	3	7	1	1	0	12
676	I		Oral Surgery	22	23	6	3	2	56
677	N		Orthodontics, Pedodontics and Social Dentistry	9	5	4	0	1	19
678			Periodontological Dentistry	0	1	4	0	2	7
	E		Dentistry total	49	69	30	5	12	165
681			Chemical Pharmaceutics	11	13	13	1	2	40
682			Physical Pharmaceutics	9	11	3	1	3	27
683			Biopharmaceutics	26	20	16	4	3	69
684			Molecular Pharmaceutics	6	3	4	0	0	13
685			Environmental Pharmaceutics	3	2	7	0	0	12
			Pharmaceutics total	55	49	43	6	8	161
691			Medical Sociology	33	8	24	0	3	68
692			Human Genetics	7	3	9	2	0	21
693			Applied Pharmacology and Medical Pharmacology	4	1	3	0	0	8
694			Pathological Examination	11	6	9	1	2	29
696	Science of Basic and Local Nursing		150	147	131	9	29	466	
697	Science of Clinical Nursing		194	162	137	9	18	520	
		Medicine in General total	399	327	313	21	52	1,112	
	MEDICINE Total			1,199	1,402	863	182	195	3,841
702	I N T E R D I S C I P L I N A R Y		History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	10	1	1	1	0	13
703			Physical Education	59	29	61	10	3	162
704			Human Geography	29	0	6	1	2	38
705			Physical Geography	8	0	4	2	0	14
			Geography total	37	0	10	3	2	52
706			Home Science(inclu. Cloth/Living Environments)	27	16	26	2	2	73
707			Food Culture	34	20	46	4	6	110
			Domestic Science total	61	36	72	6	8	183
708			Science of Cultural Property	1	2	2	0	0	5
711			Science Education	2	2	4	0	0	8
712			Educational Engineering	19	9	8	2	5	43
713			Curriculum Studies	50	6	9	1	2	68
714			Japanese Language Education	6	0	3	1	0	10
			Science Education·Curriculum Education total	77	17	24	4	7	129
721	A R E A		Statistics	9	3	5	0	0	17
731			Computer Science	26	25	25	3	6	85
732			Intelligent Informatics	53	33	22	2	6	116
733			Study of Information System (Inclu. Library and Information Science)	32	16	18	5	3	74
		Information Science total	111	74	65	10	15	275	
741			Social System Engineering	31	9	12	3	4	59
751			Natural Disaster Science	7	1	3	1	0	12
761			Plasma Science and Technology	5	6	5	1	0	17
772			Nuclear Fusion	1	0	1	0	0	2

Table 21. Number of Research Topics by Field of Specialization / by Status of Research Topic (Municipal Institutions)

Code	Subject	Subdivision	Item	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total
773	N T E R D I S C I P L I N A R Y A R E A		Energy Science General	2	9	4	0	0	15
774			Nuclear Power Science	1	0	1	0	0	2
			Energy total	4	9	6	0	0	19
801			Environmental Dynamic Analysis	6	2	11	0	2	21
802			Environmental Influence Assessment (inclu. Radiobiology)	14	18	21	3	1	57
803			Environmental Preservation	17	8	19	4	1	49
			Environmental Science total	37	28	51	7	4	127
811			Biological Organic Chemistry	8	13	7	3	0	31
812			Structured Biochemistry	11	11	6	2	1	31
813			Functional Biochemistry	22	4	12	4	2	44
			Biological Chemistry total	41	28	25	9	3	106
821	A R E A		Biophysics	9	8	21	3	0	41
822			Molecular Biology	20	17	17	5	2	61
823			Cell Biology	11	24	12	3	5	55
824			Developmental Biology	3	4	6	5	5	23
			Basic Biology total	43	53	56	16	12	180
831			Neuroanatomy and Neuropathology	12	9	6	3	0	30
832			Neurochemistry and Neuropharmacology	4	15	10	4	2	35
833			Neuro Science in General	10	23	17	3	0	53
834			Neuro and Muscular Physiology	19	9	4	4	2	38
			Neuro Science (inclu. Brain Science) total	45	56	37	14	4	156
841			Laboratory Animal Science	6	4	1	0	5	16
851			Medical Organism Engineering and Material Science of Organism	7	20	16	1	3	47
			INTERDISCIPLINARY AREA Total	591	376	452	86	70	1,575
999			WIDE AREA Total	99	38	35	3	6	181
			Item n.a. Total	2,299	1,291	1,034	215	231	5,070
			Grand Total	8,052	3,971	3,622	830	784	17,259

Table 22. Number of Research Topics by Field of Specialization / by Status of Research Topic (Private Institutions)

Code	Subj ect	Subd ivisi on	I t e m	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total	
211	A R T S · H U M A N I T I E S		Philosophy	601	25	43	12	34	715	
212			Chinese Philosophy	115	4	12	4	4	139	
213			Indian Philosophy (inclu. Buddhist Studies)	365	28	27	9	20	449	
214			Religion	472	24	35	12	20	563	
215			Ethics	125	6	10	1	16	158	
216			History of Philosophy	280	12	16	11	12	331	
217			Aesthetics (inclu. Arts)	1,527	117	97	38	102	1,881	
218			Art History	287	6	21	6	22	342	
		Philosophy total			3,772	222	261	93	230	4,578
221			Experimental Psychology	371	50	135	22	25	603	
222			Educational and Social	1,705	199	428	104	100	2,536	
223			Sociology	2,085	205	432	132	156	3,010	
224			Education	1,665	144	275	66	106	2,256	
225			Cultural Anthropology (inclu. Ethnology and Folklore)	503	35	84	56	25	703	
		Psychology·Sociology·Education Cultural Anthropology total			6,329	633	1,354	380	412	9,108
231			Japanese History	569	31	48	8	37	693	
232			Oriental History	299	27	28	23	27	404	
233			European History	496	22	39	19	18	594	
234			Archaeology (inclu. Prehistory)	158	13	37	33	7	248	
		History total			1,522	93	152	83	89	1,939
241			Japanese Language	356	10	26	8	28	428	
242			Japanese Literature	1,341	34	90	9	67	1,541	
243			Chinese Language and Literature	355	19	30	21	22	447	
244			English Language and Literature	2,961	135	178	45	184	3,503	
245			French Language and Literature	611	22	21	6	31	691	
246			German Language and Literature	467	16	29	9	37	558	
247			Other Foreign Languages and Literatures	407	21	41	11	24	504	
248			Linguistics and Phonetics	1,056	68	113	52	82	1,371	
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	341	13	21	10	27	412	
			Literature total			7,895	338	549	171	502
	ARTS·HUMANITIES Total			19,518	1,286	2,316	727	1,233	25,080	
261	L A W	Basic Science of Law	278	16	27	6	15	342		
262		Public Law	449	17	39	3	22	530		
263		International Law	264	7	39	12	25	347		
264		Civil Law	713	13	41	15	43	825		
265		Social Law	153	3	23	6	12	197		
266		Criminal Law	199	6	19	3	10	237		
267		Politics	927	52	90	48	62	1,179		
	LAW Total			2,983	114	278	93	189	3,657	
271	E C O N O M I C S	General Theory of Economics	884	45	104	51	51	1,135		
272		Economical Statistics	112	16	58	14	7	207		
273		Economic Policy (inclu. Economic Condition)	1,118	71	148	75	89	1,501		
274		Economic History	391	12	52	11	22	488		
275		Public Finance, Money and Banking	520	26	47	21	39	653		
276		Commercial Science	558	39	72	23	33	725		
277		Business Administration	1,354	84	215	61	85	1,799		
278		Accounting	696	23	67	14	40	840		
	ECONOMICS Total			5,633	316	763	270	366	7,348	
301	S C I E N C E		Algebra	192	23	32	11	10	268	
302			Geometry	128	12	12	4	8	164	
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	256	21	80	16	24	397	
305			Basic Analysis	131	12	28	16	7	194	
306			Larger-area Analysis	46	2	19	11	2	80	
		Mathematics total			753	70	171	58	51	1,103
311		Astronomy	26	8	24	8	3	69		
321		Elementary Particles Physics, Nuclear Physics, Cosmic Ray Phvsics. and Cosmic Phvsics	106	37	154	89	25	411		

Table 22. Number of Research Topics by Field of Specialization / by Status of Research Topic (Private Institutions)

Code	Subject	Subdivision	Item	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total
322	S C I E N C E		Solid-State Physics I (Optical Properties, Semiconductor and Dielectrics)	85	57	82	7	2	233
323			Solid-State Physics II (Magnetism, Metal Physics,	47	48	71	12	7	185
324			Physical Properties in General (inclu. Basic Theories)	94	27	37	14	8	180
325			Physics in General	80	30	60	12	5	187
			Physics total	412	199	404	134	47	1,196
331			Physics of Solid Earth	25	6	22	7	2	62
332			Meteorology, Oceanography and Hydrology	49	16	35	6	6	112
333			Aeronomy	12	4	17	9	0	42
334			Geology	31	3	19	15	5	73
335			Stratigraphy and Paleontology	14	1	8	5	1	29
336			Mineralogy, Petrology and Study of Mineral Deposit	22	2	14	4	2	44
337			Geochemistry	18	8	17	5	0	48
			Earth Science total	171	40	132	51	16	410
341			Physical Chemistry	111	48	88	24	14	285
342			Organic Chemistry	105	75	56	8	10	254
343			Inorganic Chemistry	60	26	71	12	3	172
344			Function, Properties and Materials in Chemistry	72	30	32	2	7	143
345			Substance Transformation	12	11	6	1	1	31
346			Separation, Refining and Identification	42	41	27	5	4	119
			Chemistry total	402	231	280	52	39	1,004
351			Genetics	37	7	21	5	3	73
352			Ecology	105	29	65	33	5	237
353			Plant Physiology	34	21	24	14	4	97
354			Morphology, Structure of Organism	48	17	31	8	7	111
355			Animal Physiology and	21	19	28	7	5	80
356			Morphology and Taxonomy	50	7	17	22	9	105
			Biology total	295	100	186	89	33	703
361			Physical Anthropology (inclu. Physiological Anthropology)	40	10	25	14	1	90
	SCIENCE Total			2,099	658	1,222	406	190	4,575
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	41	39	40	2	3	125
402			Surface Physics	40	17	28	6	3	94
403			Applied Optics and Quantum Optics	75	40	40	12	11	178
404			General Applied Physics	39	20	28	2	11	100
405			Fundamentals of Engineering	37	11	16	4	3	71
			Applied Physics·Fundamentals of Engineering total	232	127	152	26	31	568
411			Materials for Machines and Strength of Materials	176	70	93	11	10	360
412			Workshop Processes and Production Engineering	123	67	59	9	16	274
413			Design Engineering, Machine Elements and Tribology	103	52	51	4	7	217
414			Fluid Mechanics	186	63	78	6	11	344
415			Heat Engineering	123	87	58	10	18	296
416			Mechanics and Control Engineering	128	59	48	3	13	251
417			Intelligent Mechanics and Machine System	123	51	59	8	14	255
			Machine Engineering total	962	449	446	51	89	1,997
421			Electric Power Engineering and Electric Machinery	177	90	91	9	20	387
422			Electronic and Electric Materials Engineering	109	109	96	14	14	342
423			Electron Devices and Apparatus Engineering	186	68	84	13	22	373
424			Information and Communication Engineering	388	137	153	18	38	734

Table 22. Number of Research Topics by Field of Specialization / by Status of Research Topic (Private Institutions)

Code	Subject	Subdivision	Item	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total
425	ENGINEERING		System Engineering	101	23	39	10	10	183
427			Electronic Measurements	118	84	81	12	6	301
428			Control Engineering	106	35	38	5	10	194
			Electric and Electronic Engineering	1,185	546	582	81	120	2,514
431			Construction Materials and Dynamics in General Civil Engineering	76	37	52	2	10	177
432			Structural Engineering and Seismology	121	30	77	0	6	234
433			Ground Engineering	60	31	56	8	8	163
434			Hydraulics and River Engineering	71	27	53	7	2	160
435			Traffic Engineering and Regional Planning	91	32	54	11	15	203
436			Civil Environmental System	47	35	54	8	3	147
			Civil Engineering total	466	192	346	36	44	1,084
441		N	Building Structure and Materials	206	90	128	13	21	458
442			Building Science and Building Equipment	119	36	86	2	2	245
443			City Planning and Building Planning	440	102	166	34	38	780
444			Architectural History and Design	238	13	56	14	15	336
			Architecture total	1,003	241	436	63	76	1,819
451		N	Physical Metallurgy	20	20	13	5	4	62
452			Inorganic Materials and	57	42	44	5	7	155
453			Composed Materials and Properties	21	20	15	1	0	57
454			Structural and Functional Materials	44	31	22	6	3	106
455		R	Metallurgy and Material	76	30	47	6	4	163
456			Metal Productive Engineering	26	9	14	3	0	52
			Material Engineering total	244	152	155	26	18	595
461		N	Chemical Engineering in General	33	23	12	5	7	80
462			Reaction and Separation Engineering	11	10	9	4	4	38
463			Catalyst and Chemical Process	28	12	16	1	1	58
464			Bioengineering	47	33	34	6	3	123
465			Industrial Analytical Chemistry	25	30	17	2	1	75
			Process Engineering total	144	108	88	18	16	374
471			Industrial Physical Chemistry	44	15	15	2	5	81
472			Industrial Inorganic Chemistry	25	8	10	2	3	48
473			Industrial Organic Chemistry	37	12	13	4	3	69
474			Synthetic Chemistry	44	19	20	1	7	91
475			Polymer Synthesis	50	14	13	0	6	83
476			Polymer Structure and Property (inclu. Fiber)	57	21	41	2	4	125
			Industrial Chemistry total	257	89	112	11	28	497
481			Aeronautics	31	8	24	4	5	72
482			Ship Engineering	21	2	2	0	2	27
483			Marine Engineering	12	4	9	0	1	26
484			Resource Development Engineering	5	6	10	1	0	22
			Synthetic Engineering total	69	20	45	5	8	147
			ENGINEERING Total	4,562	1,924	2,362	317	430	9,595
501	AGRICULTURE		Plant Breeding	21	9	13	2	0	45
502			Crop Science	22	14	5	0	2	43
503			Horticulture and Landscape Architecture	111	31	24	4	11	181
504			Plant Protection	19	20	10	6	3	58
505			Sericultural Science and Economic Entomology	15	18	8	2	0	43
			Agriculture total	188	92	60	14	16	370
511			Plant Fertilizer and Manure and Soil Science	21	10	9	3	4	47
512			Applied Microbiochemistry and Applied Biochemistry	110	104	85	19	16	334
513			Biological Productive Chemistry and Bioorganic Chemistry	24	11	19	3	8	65
514			Food Science and Nutritional Chemistry	255	154	187	18	25	639

Table 22. Number of Research Topics by Field of Specialization / by Status of Research Topic (Private Institutions)

Code	Subject	Subdivision	Item	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total
	A		Agricultural Chemistry total	410	279	300	43	53	1,085
521			Forestry	28	9	15	3	1	56
522	G		Wood Science	6	6	2	1	6	21
			Forestry total	34	15	17	4	7	77
531	R		Fisheries in General	47	39	41	9	8	144
532			Fisheries Chemistry	22	10	21	3	2	58
			Fisheries total	69	49	62	12	10	202
541	I		Agricultural Economics	148	4	33	16	11	212
551	C		Irrigation, Drainage and Reclamation Engineering and Rural Planning	27	6	12	6	3	54
552	U		Agricultural Machinery	12	7	7	5	3	34
553	L		Biological Environment	7	8	2	1	0	18
			Agricultural Engineering total	46	21	21	12	6	106
561	T		Animal Science and Grassland Science	32	23	17	4	9	85
562	U		Applied Animal Science	11	16	11	5	8	51
563	R		Basic Veterinary Medicine and Basic Animal Science	43	65	44	10	10	172
564			Applied Veterinary Medicine	61	67	54	9	9	200
	E		Animal Science·Veterinary Medicine total	147	171	126	28	36	508
571			Biological Resource Science	6	4	12	7	0	29
572			Applied Molecular Cell Biology	16	1	8	0	1	26
			Interdisciplinary Agricultural Science total	22	5	20	7	1	55
			AGRICULTURE Total	1,064	636	639	136	140	2,615
601			Anatomy in General (inclu. Histology, Embryology)	105	108	62	19	9	303
602			Physiology in General	99	112	53	26	14	304
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	84	69	91	15	8	267
604			Pharmacology in General	62	126	58	20	8	274
605			Medical Chemistry in General	56	69	53	15	6	199
606			Pathological Medical Chemistry	32	30	22	10	3	97
	M		Physiology total	438	514	339	105	48	1,444
611			Hominal Pathology	129	133	60	18	19	359
612	E		Experimental Pathology	24	62	24	8	6	124
613	D		Parasitology (inclu. Medical Zoology)	25	19	30	26	3	103
614			Bacteriology (inclu. Eumycetes)	43	95	76	16	2	232
615	I		Virology	15	41	28	9	5	98
616			Immunology	56	93	72	30	14	265
	C		Pathology total	292	443	290	107	49	1,181
621			Hygiene	61	108	93	15	9	286
622	I		Public Health and Health Science	212	191	251	31	36	721
623			Legal Medicine	37	70	33	7	14	161
	N		Social Medicine total	310	369	377	53	59	1,168
631			Internal Medicine in General	112	182	81	9	15	399
632	E		Gastroenterology	146	205	39	13	15	418
633			Internal Medicine Respiratory System	57	115	26	8	10	216
634			Neurological Medicine	79	117	41	8	11	256
635			Cardioangiopathy	130	247	59	16	28	480
636			Pediatrics	148	148	101	24	15	436
637			Dermatology	65	86	24	9	12	196
638			Radiology	125	179	71	15	25	415
639			Neuropsychiatry	154	158	102	24	22	460
641			Hematology	87	102	47	16	13	265
642			Internal Medicine of Kidney	77	97	30	10	6	220
643			Embryology and Newborn	11	13	9	5	0	38
644			Endocrinology	42	67	29	5	4	147
645			Metabolic Science	51	82	21	8	8	170
			Internal Medicine total	1,284	1,798	680	170	184	4,116
651			Surgery in General	128	177	46	4	22	377
652			Gastroenterological Surgery	98	146	37	10	18	309
653			Thoracic Surgery	85	147	28	6	22	288

Table 22. Number of Research Topics by Field of Specialization / by Status of Research Topic (Private Institutions)

Code	Subject	Subdivision	Item	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total
654	M		Neurosurgery	110	124	28	9	24	295
655			Orthopedic Surgery	176	201	61	19	25	482
656			Anesthesiology and Rescue Medicine	118	109	20	3	11	261
657			Urology	73	93	25	12	15	218
658			Obstetrics and Gynecology	87	141	46	9	15	298
659			Oto-rhino-laryngology	107	75	24	7	15	228
660			Ophthalmology	77	100	29	10	11	227
661			Pediatric Surgery	16	29	7	2	2	56
662			Formative Surgery	24	50	12	3	5	94
			Surgery total	1,099	1,392	363	94	185	3,133
671	E		Oral Anatomy and Morphological Basic Dentistry	111	145	54	11	14	335
672			Functional Basic Dentistry	69	137	35	8	11	260
673			Morbid Dentistry (inclu. Dental Radiology)	70	113	22	10	18	233
674			Conservative Dentistry	123	242	30	17	31	443
675			Prosthodontics and Dental Technology	168	326	56	18	31	599
676			Oral Surgery	180	290	44	22	24	560
677			Orthodontics, Pedodontics and Social Dentistry	184	251	55	36	35	561
678			Periodontological Dentistry	31	62	9	4	12	118
			Dentistry total	936	1,566	305	126	176	3,109
681	E		Chemical Pharmaceuticals	143	261	155	44	24	627
682			Physical Pharmaceuticals	63	139	52	16	10	280
683			Biopharmaceuticals	213	218	172	35	25	663
684			Molecular Pharmaceuticals	51	48	57	7	8	171
685			Environmental Pharmaceuticals	22	30	27	6	0	85
			Pharmaceuticals total	492	696	463	108	67	1,826
691			Medical Sociology	95	53	77	10	12	247
692			Human Genetics	32	36	33	7	1	109
693			Applied Pharmacology and Medical Pharmacology	61	82	52	8	4	207
694			Pathological Examination	41	82	29	2	3	157
696			Science of Basic and Local Nursing	181	106	106	4	21	418
697			Science of Clinical Nursing	192	133	95	8	27	455
			Medicine in General total	602	492	392	39	68	1,593
			MEDICINE Total	5,453	7,270	3,209	802	836	17,570
702	I	N	History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	111	8	22	3	4	148
703			Physical Education	878	304	432	36	89	1,739
704			Human Geography	201	9	26	21	15	272
705			Physical Geography	85	10	22	11	0	128
			Geography total	286	19	48	32	15	400
706			Home Science (inclu. Cloth/Living Environments)	479	188	266	22	26	981
707			Food Culture	279	193	236	13	29	750
			Domestic Science total	758	381	502	35	55	1,731
708			Science of Cultural Property	10	2	6	0	0	18
711			Science Education	101	26	35	5	4	171
712	A	R	Educational Engineering	242	86	99	14	17	458
713			Curriculum Studies	721	77	92	7	38	935
714			Japanese Language Education	184	30	17	11	15	257
			Science Education·Curriculum Education total	1,248	219	243	37	74	1,821
721			Statistics	94	19	29	6	4	152
731			Computer Science	365	105	147	16	29	662
732			Intelligent Informatics	328	95	133	19	36	611
733			Study of Information System (Inclu. Library and Information Science)	472	105	136	17	48	778
			Information Science total	1,165	305	416	52	113	2,051
741	I		Social System Engineering	263	51	101	16	29	460
751			Natural Disaster Science	12	6	13	4	0	35
761			Plasma Science and Technology	19	23	20	4	7	73
772			Nuclear Fusion	6	9	10	3	1	29

Table 22. Number of Research Topics by Field of Specialization / by Status of Research Topic (Private Institutions)

Code	Subject	Subdivision	Item	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total
773	N T E R D I S C I P L I N A R Y A R E A		Energy Science General	31	5	11	5	1	53
774			Nuclear Power Science	9	9	23	9	2	52
			Energy total	46	23	44	17	4	134
801			Environmental Dynamic Analysis	45	26	53	10	7	141
802			Environmental Influence Assessment (inclu. Radiobiology)	61	35	34	12	3	145
803			Environmental Preservation	123	33	72	23	23	274
			Environmental Science total	229	94	159	45	33	560
811			Biological Organic Chemistry	25	31	31	7	4	98
812			Structured Biochemistry	22	40	43	11	2	118
813			Functional Biochemistry	42	52	53	18	4	169
			Biological Chemistry total	89	123	127	36	10	385
821			Biophysics	43	15	40	12	5	115
822			Molecular Biology	91	82	81	36	8	298
823			Cell Biology	49	66	57	13	13	198
824			Developmental Biology	21	14	20	3	3	61
			Basic Biology total	204	177	198	64	29	672
831			Neuroanatomy and Neuropathology	20	39	14	13	4	90
832			Neurochemistry and Neuropharmacology	25	53	34	6	5	123
833			Neuro Science in General	68	48	50	12	14	192
834			Neuro and Muscular Physiology	48	51	50	9	4	162
			Neuro Science (inclu. Brain Science) total	161	191	148	40	27	567
841			Laboratory Animal Science	14	34	25	4	0	77
851			Medical Organism Engineering and Material Science of Organism	109	82	148	21	15	375
	INTERDISCIPLINARY AREA Total			5,696	2,061	2,681	452	508	11,398
999	WIDE AREA Total			1,116	185	264	78	101	1,744
	Item n.a. Total			18,091	5,960	5,121	1,079	1,544	31,795
	Grand Total			66,215	20,410	18,855	4,360	5,537	115,377

Table 23. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (Japan)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Private Scientific Research Institutes	Total
211	ARTS • HUMANITIES		Philosophy	43	5	2	0	0	0	50
212			Chinese Philosophy	11	1	0	0	0	0	12
213			Indian Philosophy (inclu. Buddhist Studies)	21	1	0	0	0	1	23
214			Religion	40	4	0	0	0	1	45
215			Ethics	15	2	0	0	0	0	17
216			History of Philosophy	24	3	1	0	0	0	28
217			Aesthetics (inclu. Arts)	176	36	0	0	2	1	215
218			Art History	37	2	0	0	1	1	41
		Philosophy total	367	54	3	0	3	4	431	
221			Experimental Psychology	31	3	0	1	0	0	35
222			Educational and Social	88	8	0	0	0	0	96
223			Sociology	175	10	0	1	1	0	187
224			Education	135	16	3	2	1	0	157
225			Cultural Anthropology (inclu. Ethnology and Folklore)	105	5	0	1	0	0	111
		Psychology • Sociology • Education Cultural Anthropology total	534	42	3	5	2	0	586	
231			Japanese History	23	1	0	0	0	0	24
232			Oriental History	65	2	1	0	0	1	69
233			European History	96	5	0	0	0	1	102
234			Archaeology (inclu. Prehistory)	25	4	0	0	2	1	32
		History total	209	12	1	0	2	3	227	
241			Japanese Language	12	2	0	0	0	0	14
242			Japanese Literature	32	5	0	0	0	0	37
243			Chinese Language and Literature	40	2	1	0	0	0	43
244			English Language and Literature	192	27	10	0	0	0	229
245			French Language and Literature	82	7	1	0	0	0	90
246			German Language and Literature	58	0	2	0	0	0	60
247			Other Foreign Languages and Literatures	86	2	1	0	0	0	89
248			Linguistics and Phonetics	124	11	3	0	0	0	138
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	23	4	0	0	0	0	27
			Literature total	649	60	18	0	0	0	727
	ARTS • HUMANITIES Total	1,759	168	25	5	7	7	1,971		
261	LAW	Basic Science of Law	18	3	0	0	0	0	21	
262		Public Law	30	1	0	0	0	0	31	
263		International Law	39	0	0	0	0	0	39	
264		Civil Law	46	1	0	0	0	0	47	
265		Social Law	13	0	0	0	0	0	13	
266		Criminal Law	17	0	0	0	0	0	17	
267		Politics	104	0	0	0	0	0	104	
	LAW Total	267	5	0	0	0	0	272		
271	ECONOMICS	General Theory of Economics	72	2	0	0	0	0	74	
272		Economical Statistics	15	0	0	0	0	0	15	
273		Economic Policy (inclu. Economic Condition)	112	4	1	0	0	0	117	
274		Economic History	48	1	1	0	0	0	50	
275		Public Finance, Money and Banking	23	2	0	0	0	0	25	
276		Commercial Science	23	0	0	0	0	0	23	
277		Business Administration	73	5	0	0	0	0	78	
278		Accounting	33	2	0	0	0	0	35	
	ECONOMICS Total	399	16	2	0	0	0	417		
301	SCIENCE	Algebra	43	1	1	0	0	0	45	
302		Geometry	30	0	2	0	0	0	32	
304		Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	27	1	2	0	0	0	30	
305		Basic Analysis	34	0	1	0	0	0	35	
306		Larger-area Analysis	18	0	0	0	0	0	18	
		Mathematics total	152	2	6	0	0	0	160	
311		Astronomy	18	0	2	1	0	0	21	
321		Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	91	1	1	8	1	0	102	

Table 23. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (Japan)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Private Scientific Research Institutes	Total
322	S C I E N C E		Solid-State Physics I (Optical Properties, Semiconductor and Dielectrics)	27	0	1	0	0	0	28
323			Solid-State Physics II (Magnetism, Metal Physics,	38	0	1	0	0	1	40
324			Physical Properties in General (inclu. Basic Theories)	30	1	2	0	0	0	33
325			Physics in General	20	0	1	0	0	0	21
			Physics total	206	2	6	8	1	1	224
331			Physics of Solid Earth	28	0	0	0	0	0	28
332			Meteorology, Oceanography and Hydrology	36	0	1	0	0	0	37
333			Aeronomy	5	0	1	0	0	0	6
334			Geology	31	0	0	0	0	1	32
335			Stratigraphy and Paleontology	17	0	0	0	1	0	18
336			Mineralogy, Petrology and Study of Mineral Deposit	31	0	0	0	0	0	31
337			Geochemistry	20	0	0	0	0	0	20
			Earth Science total	168	0	2	0	1	1	172
341			Physical Chemistry	38	2	0	0	0	0	40
342			Organic Chemistry	26	0	2	0	0	0	28
343			Inorganic Chemistry	15	2	0	0	0	0	17
344			Function, Properties and Materials in Chemistry	22	0	1	0	0	0	23
345			Substance Transformation	5	0	0	0	0	0	5
346			Separation, Refining and Identification	15	0	0	0	0	0	15
			Chemistry total	121	4	3	0	0	0	128
351			Genetics	17	0	0	0	0	0	17
352			Ecology	58	1	0	0	1	1	61
353			Plant Physiology	18	1	0	0	0	0	19
354			Morphology, Structure of Organism	14	0	0	0	1	1	16
355			Animal Physiology and	9	0	0	0	0	0	9
356			Morphology and Taxonomy	38	0	0	0	7	0	45
			Biology total	154	2	0	0	9	2	167
361			Physical Anthropology (inclu. Physiological Anthropology)	24	0	0	0	0	0	24
	SCIENCE Total			843	10	19	9	11	4	896
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	12	0	1	0	0	0	13
402			Surface Physics	10	0	0	0	0	0	10
403			Applied Optics and Quantum Optics	15	0	0	1	0	0	16
404			General Applied Physics	3	1	1	0	0	0	5
405			Fundamentals of Engineering	5	0	0	0	0	0	5
			Applied Physics·Fundamentals of Engineering total	45	1	2	1	0	0	49
411			Materials for Machines and Strength of Materials	18	0	2	0	0	0	20
412			Workshop Processes and Production Engineering	17	0	3	0	0	0	20
413			Design Engineering, Machine Elements and Tribology	10	0	0	0	0	0	10
414			Fluid Mechanics	28	0	3	0	0	0	31
415			Heat Engineering	21	1	3	0	0	0	25
416			Mechanics and Control Engineering	15	0	4	0	0	0	19
417			Intelligent Mechanics and Machine System	18	0	0	0	0	0	18
			Machine Engineering total	127	1	15	0	0	0	143
421			Electric Power Engineering and Electric Machinery	18	0	4	1	0	0	23
422			Electronic and Electric Materials Engineering	25	2	3	0	0	0	30
423			Electron Devices and Apparatus Engineering	24	0	0	0	0	0	24
424			Information and Communication Engineering	45	0	6	0	0	0	51

Table 23. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (Japan)

Code	Subj ect	Subd ivisi on	I t e m	Universities	Junior Colleges	Colleges of Technology	Inter- University Research Institutes	Government Research Institutes	Private Scientific Research Institutes	Total
425	E N G I N E E R I N G		System Engineering	13	0	1	0	0	0	14
427			Electronic Measurements	17	0	4	0	0	0	21
428			Control Engineering	13	0	1	0	0	0	14
			Electric and Electronic Engineering	155	2	19	1	0	0	177
431			Construction Materials and Dynamics in General Civil Engineering	12	0	1	0	0	0	13
432			Structural Engineering and Seismology	23	1	1	0	0	0	25
433			Ground Engineering	17	0	1	0	0	0	18
434			Hydraulics and River Engineering	25	0	3	0	0	0	28
435			Traffic Engineering and Regional Planning	14	0	1	0	0	0	15
436			Civil Environmental System	19	0	1	0	0	0	20
			Civil Engineering total	110	1	8	0	0	0	119
441			Building Structure and Materials	27	0	2	0	1	0	30
442			Building Science and Building Equipment	14	1	1	0	0	0	16
443			City Planning and Building Planning	74	3	3	0	0	0	80
444			Architectural History and Design	35	2	4	0	1	0	42
			Architecture total	150	6	10	0	2	0	168
451			Physical Metallurgy	12	0	2	0	0	0	14
452			Inorganic Materials and	15	1	1	0	0	0	17
453			Composed Materials and Properties	4	0	1	0	0	0	5
454			Structural and Functional Materials	16	0	0	0	0	0	16
455			Metallurgy and Material	18	0	1	0	0	0	19
456			Metal Productive Engineering	5	0	1	0	0	0	6
			Material Engineering total	70	1	6	0	0	0	77
461			Chemical Engineering in General	18	0	0	0	0	0	18
462			Reaction and Separation Engineering	9	0	0	0	0	0	9
463			Catalyst and Chemical Process	9	0	0	0	0	0	9
464			Bioengineering	17	0	1	0	0	0	18
465			Industrial Analytical Chemistry	9	0	1	0	0	0	10
			Process Engineering total	62	0	2	0	0	0	64
471			Industrial Physical Chemistry	12	0	0	0	0	0	12
472			Industrial Inorganic Chemistry	5	0	0	0	0	0	5
473			Industrial Organic Chemistry	6	0	0	0	0	0	6
474			Synthetic Chemistry	19	0	1	0	0	0	20
475			Polymer Synthesis	10	0	0	0	0	0	10
476			Polymer Structure and Property (inclu. Fiber)	19	0	0	0	0	0	19
			Industrial Chemistry total	71	0	1	0	0	0	72
481			Aeronautics	11	0	0	0	0	0	11
482			Ship Engineering	7	0	0	0	0	0	7
483			Marine Engineering	3	0	0	0	0	0	3
484			Resource Development Engineering	12	0	1	0	0	0	13
			Synthetic Engineering total	33	0	1	0	0	0	34
			ENGINEERING Total	823	12	64	2	2	0	903
501	A G R I C U L T U R E		Plant Breeding	12	0	0	0	0	0	12
502			Crop Science	13	0	1	0	0	0	14
503			Horticulture and Landscape Architecture	32	2	0	0	0	0	34
504			Plant Protection	17	0	0	0	0	0	17
505			Sericultural Science and Economic Entomology	2	0	0	0	0	1	3
			Agriculture total	76	2	1	0	0	1	80
511			Plant Fertilizer and Manure and Soil Science	24	0	0	0	0	0	24
512			Applied Microbiochemistry and Applied Biochemistry	25	1	2	0	0	0	28
513			Biological Productive Chemistry and Bioorganic Chemistry	12	1	0	0	0	0	13
514			Food Science and Nutritional Chemistry	36	1	0	0	0	0	37

Table 23. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (Japan)

Code	Subj ect	Subd ivisi on	I t e m	Universities	Junior Colleges	Colleges of Technology	Inter- University Research Institutes	Government Research Institutes	Private Scientific Research Institutes	Total
	A		Agricultural Chemistry total	97	3	2	0	0	0	102
521			Forestry	46	0	0	0	0	0	46
522	G		Wood Science	20	0	0	0	0	0	20
			Forestry total	66	0	0	0	0	0	66
531	R		Fisheries in General	38	0	0	0	0	0	38
532			Fisheries Chemistry	11	0	0	0	0	0	11
			Fisheries total	49	0	0	0	0	0	49
541	I		Agricultural Economics	44	0	0	0	0	0	44
551	C		Irrigation, Drainage and Reclamation Engineering and Rural Planning	29	0	0	0	0	0	29
552	U		Agricultural Machinery	7	1	0	0	0	0	8
553	L		Biological Environment	7	0	0	0	0	0	7
			Agricultural Engineering total	43	1	0	0	0	0	44
561	T		Animal Science and Grassland Science	17	0	0	0	0	0	17
562	U		Applied Animal Science	12	0	0	0	0	0	12
563	R		Basic Veterinary Medicine and Basic Animal Science	33	0	0	0	0	0	33
564			Applied Veterinary Medicine	25	0	0	0	0	0	25
	E		Animal Science·Veterinary Medicine total	87	0	0	0	0	0	87
571			Biological Resource Science	16	0	0	0	0	0	16
572			Applied Molecular Cell Biology	5	0	0	0	0	0	5
			Interdisciplinary Agricultural Science total	21	0	0	0	0	0	21
			AGRICULTURE Total	483	6	3	0	0	1	493
601			Anatomy in General (inclu. Histology, Embryology)	28	0	0	0	0	0	28
602			Physiology in General	24	1	0	0	0	0	25
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	20	2	0	0	0	0	22
604			Pharmacology in General	24	1	0	0	0	0	25
605			Medical Chemistry in General	11	0	0	0	0	0	11
606			Pathological Medical Chemistry	9	0	0	0	0	0	9
	M		Physiology total	116	4	0	0	0	0	120
611			Hominal Pathology	12	0	0	0	0	0	12
612	E		Experimental Pathology	10	0	0	0	0	0	10
613	D		Parasitology (inclu. Medical Zoology)	24	0	0	0	0	0	24
614			Bacteriology (inclu. Eumycetes)	13	0	0	0	0	0	13
615	I		Virology	8	0	0	0	0	1	9
616			Immunology	21	0	0	0	0	0	21
	C		Pathology total	88	0	0	0	0	1	89
621			Hygiene	14	1	0	0	0	0	15
622	I		Public Health and Health Science	47	3	0	0	0	0	50
623			Legal Medicine	7	0	0	0	0	0	7
	N		Social Medicine total	68	4	0	0	0	0	72
631			Internal Medicine in General	18	1	0	0	0	0	19
632	E		Gastroenterology	27	0	0	0	0	0	27
633			Internal Medicine Respiratory System	15	0	0	0	0	0	15
634			Neurological Medicine	18	0	0	0	0	0	18
635			Cardioangiopathy	19	0	0	0	0	1	20
636			Pediatrics	21	0	0	0	0	0	21
637			Dermatology	6	0	0	0	0	0	6
638			Radiology	19	0	0	0	0	0	19
639			Neuropsychiatry	25	1	0	0	0	0	26
641			Hematology	13	0	0	0	0	0	13
642			Internal Medicine of Kidney	5	1	0	0	0	0	6
643			Embryology and Newborn	3	0	0	0	0	0	3
644			Endocrinology	3	0	0	0	0	0	3
645			Metabolic Science	6	0	0	0	0	0	6
			Internal Medicine total	198	3	0	0	0	1	202
651			Surgery in General	12	0	0	0	0	0	12
652			Gastroenterological Surgery	14	0	0	0	0	0	14
653			Thoracic Surgery	12	0	0	0	0	0	12

Table 23. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (Japan)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Private Scientific Research Institutes	Total
654	M		Neurosurgery	15	0	0	0	0	0	15
655			Orthopedic Surgery	33	0	0	0	0	0	33
656			Anesthesiology and Rescue Medicine	17	0	0	0	0	0	17
657			Urology	20	0	0	0	0	0	20
658			Obstetrics and Gynecology	19	0	0	0	0	0	19
659			Oto-rhino-laryngology	10	0	0	0	0	0	10
660			Ophthalmology	17	0	0	0	0	0	17
661			Pediatric Surgery	4	0	0	0	0	0	4
662			Formative Surgery	2	0	0	0	0	0	2
			Surgery total	175	0	0	0	0	0	175
671	E		Oral Anatomy and Morphological Basic Dentistry	19	0	0	0	0	0	19
672			Functional Basic Dentistry	14	0	0	0	0	0	14
673			Morbid Dentistry (inclu. Dental Radiology)	6	0	0	0	0	0	6
674			Conservative Dentistry	11	0	0	0	0	0	11
675			Prosthodontics and Dental Technology	35	0	0	0	0	0	35
676			Oral Surgery	23	0	0	0	0	0	23
677			Orthodontics, Pedodontics and Social Dentistry	29	0	0	0	0	0	29
678			Periodontological Dentistry	8	0	0	0	0	0	8
			Dentistry total	145	0	0	0	0	0	145
681	E		Chemical Pharmaceutics	25	0	0	0	0	0	25
682			Physical Pharmaceutics	14	1	0	0	0	0	15
683			Biopharmaceutics	29	1	0	0	0	0	30
684			Molecular Pharmaceutics	12	0	0	0	0	0	12
685			Environmental Pharmaceutics	10	0	0	0	0	0	10
			Pharmaceutics total	90	2	0	0	0	0	92
691			Medical Sociology	11	1	0	0	0	0	12
692			Human Genetics	14	0	0	0	0	0	14
693			Applied Pharmacology and Medical Pharmacology	9	0	0	0	0	0	9
694			Pathological Examination	15	0	0	0	0	0	15
696	E		Science of Basic and Local Nursing	18	2	0	0	0	0	20
697			Science of Clinical Nursing	27	4	0	0	0	0	31
			Medicine in General total	94	7	0	0	0	0	101
			MEDICINE Total	974	20	0	0	0	2	996
702	I		History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	10	0	0	0	0	0	10
703			Physical Education	87	9	1	0	0	0	97
704			Human Geography	47	0	0	0	0	0	47
705			Physical Geography	32	0	0	0	0	0	32
			Geography total	79	0	0	0	0	0	79
706			Home Science (inclu. Cloth/Living Environments)	30	9	0	0	0	0	39
707			Food Culture	6	3	0	0	0	0	9
			Domestic Science total	36	12	0	0	0	0	48
708			Science of Cultural Property	5	1	0	0	1	0	7
711			Science Education	15	1	0	0	0	0	16
712	I		Educational Engineering	21	1	4	1	0	0	27
713			Curriculum Studies	58	12	4	0	0	0	74
714			Japanese Language Education	16	0	0	0	0	0	16
			Science Education · Curriculum Education total	110	14	8	1	0	0	133
721			Statistics	16	0	0	0	0	0	16
731			Computer Science	52	2	3	0	0	0	57
732			Intelligent Informatics	44	0	4	0	0	0	48
733			Study of Information System (Inclu. Library and Information Science)	30	5	0	2	1	0	38
			Information Science total	126	7	7	2	1	0	143
741	I		Social System Engineering	46	0	0	0	0	0	46
751			Natural Disaster Science	8	1	0	0	0	0	9
761			Plasma Science and Technology	15	0	1	0	0	0	16
772			Nuclear Fusion	4	0	0	0	0	0	4

Table 23. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (Japan)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Private Scientific Research Institutes	Total
773	N T E R D I S C I P L I N A R Y A R E A		Energy Science General	6	0	0	0	0	0	6
774			Nuclear Power Science	11	0	0	2	0	0	13
			Energy total	21	0	0	2	0	0	23
801			Environmental Dynamic Analysis	24	0	0	0	0	0	24
802			Environmental Influence Assessment (inclu. Radiobiology)	15	1	0	0	0	1	17
803			Environmental Preservation	35	1	0	0	0	0	36
			Environmental Science total	74	2	0	0	0	1	77
811			Biological Organic Chemistry	16	0	0	0	0	1	17
812			Structured Biochemistry	15	0	0	0	0	0	15
813			Functional Biochemistry	11	0	0	0	0	0	11
	N T E R D I S C I P L I N A R Y A R E A		Biological Chemistry total	42	0	0	0	0	1	43
821			Biophysics	15	0	2	0	0	0	17
822			Molecular Biology	31	0	0	0	0	1	32
823			Cell Biology	22	0	0	0	0	1	23
824			Developmental Biology	10	0	1	0	0	0	11
			Basic Biology total	78	0	3	0	0	2	83
831			Neuroanatomy and Neuropathology	12	0	0	0	0	0	12
832			Neurochemistry and Neuropharmacology	14	0	0	0	0	0	14
833			Neuro Science in General	24	0	0	0	0	0	24
834			Neuro and Muscular Physiology	15	1	0	0	0	0	16
	A R E A		Neuro Science (inclu. Brain Science) total	65	1	0	0	0	0	66
841			Laboratory Animal Science	6	0	0	0	0	0	6
851			Medical Organism Engineering and Material Science of Organism	31	1	1	0	0	0	33
	INTERDISCIPLINARY AREA Total			855	48	21	5	2	4	935
999	WIDE AREA Total			137	18	0	0	1	0	156
	Item n.a. Total			3,444	104	66	13	14	17	3,658
	Grand Total			9,984	407	200	34	37	35	10,697

Table 24. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (National Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Total
211	ARTS • HUMANITIES		Philosophy	12	0	1	0	0	13
212			Chinese Philosophy	3	0	0	0	0	3
213			Indian Philosophy (inclu. Buddhist Studies)	5	0	0	0	0	5
214			Religion	6	0	0	0	0	6
215			Ethics	8	0	0	0	0	8
216			History of Philosophy	5	0	1	0	0	6
217			Aesthetics (inclu. Arts)	45	2	0	0	2	49
218			Art History	11	0	0	0	1	12
		Philosophy total	95	2	2	0	3	102	
221			Experimental Psychology	16	0	0	1	0	17
222			Educational and Social	33	0	0	0	0	33
223			Sociology	49	0	0	1	1	51
224			Education	71	1	3	2	1	78
225			Cultural Anthropology (inclu. Ethnology and Folklore)	37	0	0	1	0	38
		Psychology • Sociology • Education Cultural Anthropology total	206	1	3	5	2	217	
231			Japanese History	8	0	0	0	0	8
232			Oriental History	29	0	1	0	0	30
233			European History	30	0	0	0	0	30
234			Archaeology (inclu. Prehistory)	13	0	0	0	2	15
		History total	80	0	1	0	2	83	
241			Japanese Language	5	0	0	0	0	5
242			Japanese Literature	5	0	0	0	0	5
243			Chinese Language and Literature	14	2	1	0	0	17
244			English Language and Literature	44	0	10	0	0	54
245			French Language and Literature	19	0	1	0	0	20
246			German Language and Literature	17	0	2	0	0	19
247			Other Foreign Languages and Literatures	31	0	1	0	0	32
248			Linguistics and Phonetics	36	0	3	0	0	39
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	7	0	0	0	0	7
			Literature total	178	2	18	0	0	198
	ARTS • HUMANITIES Total	559	5	24	5	7	600		
261	LAW	Basic Science of Law	6	0	0	0	0	6	
262		Public Law	6	0	0	0	0	6	
263		International Law	8	0	0	0	0	8	
264		Civil Law	12	0	0	0	0	12	
265		Social Law	10	0	0	0	0	10	
266		Criminal Law	5	0	0	0	0	5	
267		Politics	24	0	0	0	0	24	
	LAW Total	71	0	0	0	0	71		
271	ECONOMICS	General Theory of Economics	23	0	0	0	0	23	
272		Economical Statistics	9	0	0	0	0	9	
273		Economic Policy (inclu. Economic Condition)	29	0	1	0	0	30	
274		Economic History	11	0	0	0	0	11	
275		Public Finance, Money and Banking	8	0	0	0	0	8	
276		Commercial Science	4	0	0	0	0	4	
277		Business Administration	15	0	0	0	0	15	
278		Accounting	5	0	0	0	0	5	
	ECONOMICS Total	104	0	1	0	0	105		
301	SCIENCE	Algebra	20	0	1	0	0	21	
302		Geometry	23	0	2	0	0	25	
304		Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	15	0	2	0	0	17	
305		Basic Analysis	22	0	1	0	0	23	
306		Larger-area Analysis	11	0	0	0	0	11	
		Mathematics total	91	0	6	0	0	97	
311		Astronomy	15	0	2	1	0	18	
321		Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	65	0	1	8	1	75	

Table 24. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (National Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Total
322	S C I E N C E		Solid-State Physics I (Optical Properties, Semiconductor and Dielectrics)	18	0	1	0	0	19
323			Solid-State Physics II (Magnetism, Metal Physics,	26	0	1	0	0	27
324			Physical Properties in General (inclu. Basic Theories)	19	0	2	0	0	21
325			Physics in General	14	0	0	0	0	14
			Physics total	142	0	5	8	1	156
331			Physics of Solid Earth	26	0	0	0	0	26
332			Meteorology, Oceanography and Hydrology	30	0	1	0	0	31
333			Aeronomy	2	0	1	0	0	3
334			Geology	27	0	0	0	0	27
335			Stratigraphy and Paleontology	12	0	0	0	1	13
336			Mineralogy, Petrology and Study of Mineral Deposit	30	0	0	0	0	30
337			Geochemistry	17	0	0	0	0	17
			Earth Science total	144	0	2	0	1	147
341			Physical Chemistry	25	0	0	0	0	25
342			Organic Chemistry	18	0	2	0	0	20
343			Inorganic Chemistry	10	0	0	0	0	10
344			Function, Properties and Materials in Chemistry	18	0	1	0	0	19
345			Substance Transformation	4	0	0	0	0	4
346			Separation, Refining and Identification	8	0	0	0	0	8
			Chemistry total	83	0	3	0	0	86
351			Genetics	12	0	0	0	0	12
352			Ecology	40	0	0	0	1	41
353			Plant Physiology	8	0	0	0	0	8
354			Morphology, Structure of Organism	9	0	0	0	1	10
355			Animal Physiology and	8	0	0	0	0	8
356			Morphology and Taxonomy	28	0	0	0	7	35
			Biology total	105	0	0	0	9	114
361			Physical Anthropology (inclu. Physiological Anthropology)	17	0	0	0	0	17
	SCIENCE Total			597	0	18	9	11	635
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	6	0	1	0	0	7
402			Surface Physics	5	0	0	0	0	5
403			Applied Optics and Quantum Optics	13	0	0	1	0	14
404			General Applied Physics	1	0	1	0	0	2
405			Fundamentals of Engineering	4	0	0	0	0	4
			Applied Physics-Fundamentals of Engineering total	29	0	2	1	0	32
411			Materials for Machines and Strength of Materials	8	0	2	0	0	10
412			Workshop Processes and Production Engineering	6	0	3	0	0	9
413			Design Engineering, Machine Elements and Tribology	5	0	0	0	0	5
414			Fluid Mechanics	16	0	3	0	0	19
415			Heat Engineering	16	0	3	0	0	19
416			Mechanics and Control Engineering	11	0	3	0	0	14
417			Intelligent Mechanics and Machine System	13	0	0	0	0	13
			Machine Engineering total	75	0	14	0	0	89
421			Electric Power Engineering and Electric Machinery	9	0	3	1	0	13
422			Electronic and Electric Materials Engineering	16	0	3	0	0	19
423			Electron Devices and Apparatus Engineering	5	0	0	0	0	5
424			Information and Communication Engineering	24	0	6	0	0	30

Table 24. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (National Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Total
425	E		System Engineering	8	0	1	0	0	9
427			Electronic Measurements	7	0	4	0	0	11
428			Control Engineering	10	0	1	0	0	11
			Electric and Electronic Engineering	79	0	18	1	0	98
431			Construction Materials and Dynamics in General Civil Engineering	5	0	1	0	0	6
432			Structural Engineering and Seismology	12	0	1	0	0	13
433			Ground Engineering	14	0	1	0	0	15
434			Hydraulics and River Engineering	20	0	2	0	0	22
435			Traffic Engineering and Regional Planning	6	0	1	0	0	7
436			Civil Environmental System	16	0	1	0	0	17
			Civil Engineering total	73	0	7	0	0	80
441		N	Building Structure and Materials	14	0	2	0	1	17
442			Building Science and Building Equipment	7	0	1	0	0	8
443		G	City Planning and Building Planning	32	0	3	0	0	35
444		I	Architectural History and Design	13	0	4	0	1	18
			Architecture total	66	0	10	0	2	78
451		N	Physical Metallurgy	9	0	2	0	0	11
452			Inorganic Materials and	12	0	1	0	0	13
453		E	Composed Materials and Properties	4	0	1	0	0	5
454		E	Structural and Functional Materials	13	0	0	0	0	13
455		R	Metallurgy and Material	13	0	1	0	0	14
456			Metal Productive Engineering	4	0	1	0	0	5
			Material Engineering total	55	0	6	0	0	61
461		G	Chemical Engineering in General	14	0	0	0	0	14
462			Reaction and Separation Engineering	6	0	0	0	0	6
463			Catalyst and Chemical Process	9	0	0	0	0	9
464			Bioengineering	12	0	1	0	0	13
465			Industrial Analytical Chemistry	7	0	1	0	0	8
			Process Engineering total	48	0	2	0	0	50
471			Industrial Physical Chemistry	8	0	0	0	0	8
472			Industrial Inorganic Chemistry	5	0	0	0	0	5
473			Industrial Organic Chemistry	6	0	0	0	0	6
474			Synthetic Chemistry	14	0	1	0	0	15
475			Polymer Synthesis	7	0	0	0	0	7
476			Polymer Structure and Property (inclu. Fiber)	12	0	0	0	0	12
			Industrial Chemistry total	52	0	1	0	0	53
481			Aeronautics	9	0	0	0	0	9
482			Ship Engineering	4	0	0	0	0	4
483			Marine Engineering	1	0	0	0	0	1
484			Resource Development Engineering	9	0	1	0	0	10
			Synthetic Engineering total	23	0	1	0	0	24
			ENGINEERING Total	500	0	61	2	2	565
501	A G R I C U L T U R E		Plant Breeding	10	0	0	0	0	10
502			Crop Science	13	0	1	0	0	14
503			Horticulture and Landscape Architecture	18	0	0	0	0	18
504			Plant Protection	15	0	0	0	0	15
505			Sericultural Science and Economic Entomology	2	0	0	0	0	2
			Agriculture total	58	0	1	0	0	59
511			Plant Fertilizer and Manure and Soil Science	21	0	0	0	0	21
512			Applied Microbiochemistry and Applied Biochemistry	15	0	2	0	0	17
513			Biological Productive Chemistry and Bioorganic Chemistry	9	0	0	0	0	9
514			Food Science and Nutritional Chemistry	24	0	0	0	0	24

Table 24. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (National Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Total
	A		Agricultural Chemistry total	69	0	2	0	0	71
521			Forestry	34	0	0	0	0	34
522	G		Wood Science	18	0	0	0	0	18
			Forestry total	52	0	0	0	0	52
531	R		Fisheries in General	30	0	0	0	0	30
532			Fisheries Chemistry	8	0	0	0	0	8
			Fisheries total	38	0	0	0	0	38
541	I		Agricultural Economics	29	0	0	0	0	29
551	C		Irrigation, Drainage and Reclamation Engineering and Rural Planning	21	0	0	0	0	21
552	U		Agricultural Machinery	7	0	0	0	0	7
553	L		Biological Environment	5	0	0	0	0	5
			Agricultural Engineering total	33	0	0	0	0	33
561	T		Animal Science and Grassland Science	13	0	0	0	0	13
562	U		Applied Animal Science	7	0	0	0	0	7
563	R		Basic Veterinary Medicine and Basic Animal Science	22	0	0	0	0	22
564			Applied Veterinary Medicine	17	0	0	0	0	17
	E		Animal Science-Veterinary Medicine total	59	0	0	0	0	59
571			Biological Resource Science	12	0	0	0	0	12
572			Applied Molecular Cell Biology	3	0	0	0	0	3
			Interdisciplinary Agricultural Science total	15	0	0	0	0	15
			AGRICULTURE Total	353	0	3	0	0	356
601			Anatomy in General (inclu. Histology, Embryology)	18	0	0	0	0	18
602			Physiology in General	18	0	0	0	0	18
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	7	0	0	0	0	7
604			Pharmacology in General	11	0	0	0	0	11
605			Medical Chemistry in General	7	0	0	0	0	7
606			Pathological Medical Chemistry	5	0	0	0	0	5
	M		Physiology total	66	0	0	0	0	66
611			Hominal Pathology	7	0	0	0	0	7
612	E		Experimental Pathology	5	0	0	0	0	5
613	D		Parasitology (inclu. Medical Zoology)	21	0	0	0	0	21
614			Bacteriology (inclu. Eumycetes)	6	0	0	0	0	6
615	I		Virology	7	0	0	0	0	7
616			Immunology	14	0	0	0	0	14
			Pathology total	60	0	0	0	0	60
621	C		Hygiene	9	0	0	0	0	9
622	I		Public Health and Health Science	26	1	0	0	0	27
623			Legal Medicine	3	0	0	0	0	3
			Social Medicine total	38	1	0	0	0	39
631	N		Internal Medicine in General	7	1	0	0	0	8
632	E		Gastroenterology	17	0	0	0	0	17
633			Internal Medicine Respiratory System	8	0	0	0	0	8
634			Neurological Medicine	12	0	0	0	0	12
635			Cardioangiopathy	10	0	0	0	0	10
636			Pediatrics	13	0	0	0	0	13
637			Dermatology	4	0	0	0	0	4
638			Radiology	11	0	0	0	0	11
639			Neuropsychiatry	12	0	0	0	0	12
641			Hematology	5	0	0	0	0	5
642			Internal Medicine of Kidney	2	0	0	0	0	2
643			Embryology and Newborn	3	0	0	0	0	3
644			Endocrinology	6	0	0	0	0	6
645			Metabolic Science	1	0	0	0	0	1
			Internal Medicine total	111	1	0	0	0	112
651			Surgery in General	4	0	0	0	0	4
652			Gastroenterological Surgery	6	0	0	0	0	6
653			Thoracic Surgery	7	0	0	0	0	7

Table 24. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (National Institutions)

Code	Subj ect	Subd ivision	I t e m	Universities	Junior Colleges	Colleges of Technology	Inter- University Research Institutes	Government Research Institutes	Total
654	M 								

Table 24. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (National Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Total
773	N T E R D I S C I P L I N A R Y A R E A		Energy Science General	3	0	0	0	0	3
774			Nuclear Power Science	9	0	0	2	0	11
			Energy total	15	0	0	2	0	17
801			Environmental Dynamic Analysis	14	0	0	0	0	14
802			Environmental Influence Assessment (inclu. Radiobiology)	10	0	0	0	0	10
803			Environmental Preservation	17	0	0	0	0	17
			Environmental Science total	41	0	0	0	0	41
811			Biological Organic Chemistry	12	0	0	0	0	12
812			Structured Biochemistry	14	0	0	0	0	14
813			Functional Biochemistry	4	0	0	0	0	4
			Biological Chemistry total	30	0	0	0	0	30
821	A R E A		Biophysics	9	0	2	0	0	11
822			Molecular Biology	18	0	0	0	0	18
823			Cell Biology	15	0	0	0	0	15
824			Developmental Biology	7	0	1	0	0	8
			Basic Biology total	49	0	3	0	0	52
831			Neuroanatomy and Neuropathology	6	0	0	0	0	6
832			Neurochemistry and Neuropharmacology	7	0	0	0	0	7
833			Neuro Science in General	15	0	0	0	0	15
834			Neuro and Muscular Physiology	10	0	0	0	0	10
			Neuro Science (inclu. Brain Science) total	38	0	0	0	0	38
841			Laboratory Animal Science	5	0	0	0	0	5
851			Medical Organism Engineering and Material Science of Organism	16	0	1	0	0	17
			INTERDISCIPLINARY AREA Total	467	3	19	5	2	496
999			WIDE AREA Total	47	4	0	0	1	52
			Item n.a. Total	1,895	2	65	13	14	1,989
			Grand Total	5,121	16	191	34	37	5,399

Table 25. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Total
211	ARTS • HUMANITIES		Philosophy	0	0	1	1
212			Chinese Philosophy	1	1	0	2
213			Indian Philosophy (inclu. Buddhist Studies)	1	1	0	2
214			Religion	1	0	0	1
215			Ethics	2	0	0	2
216			History of Philosophy	2	0	0	2
217			Aesthetics (inclu. Arts)	23	1	0	24
218			Art History	1	1	0	2
			Philosophy total	31	4	1	36
221			Experimental Psychology	0	2	0	2
222			Educational and Social	3	1	0	4
223			Sociology	11	3	0	14
224			Education	7	2	0	9
225			Cultural Anthropology (inclu. Ethnology and Folklore)	6	0	0	6
			Psychology • Sociology • Education Cultural Anthropology total	27	8	0	35
231			Japanese History	3	0	0	3
232			Oriental History	3	0	0	3
233			European History	9	0	0	9
234			Archaeology (inclu. Prehistory)	0	0	0	0
			History total	15	0	0	15
241			Japanese Language	0	0	0	0
242			Japanese Literature	0	1	0	1
243			Chinese Language and Literature	0	0	0	0
244			English Language and Literature	6	1	0	7
245			French Language and Literature	5	1	0	6
246			German Language and Literature	2	0	0	2
247			Other Foreign Languages and Literatures	3	0	0	3
248			Linguistics and Phonetics	9	1	0	10
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	0	0	0	0
			Literature total	25	4	0	29
			ARTS • HUMANITIES Total	98	16	1	115
261	LAW		Basic Science of Law	0	1	0	1
262			Public Law	0	0	0	0
263			International Law	3	0	0	3
264			Civil Law	3	1	0	4
265			Social Law	0	0	0	0
266			Criminal Law	0	0	0	0
267			Politics	7	0	0	7
			LAW Total	13	2	0	15
271	ECONOMICS		General Theory of Economics	10	0	0	10
272			Economical Statistics	0	0	0	0
273			Economic Policy (inclu. Economic Condition)	7	3	0	10
274			Economic History	5	1	0	6
275			Public Finance, Money and Banking	2	1	0	3
276			Commercial Science	2	0	0	2
277			Business Administration	6	0	0	6
278			Accounting	0	1	0	1
			ECONOMICS Total	32	6	0	38
301	SCIENCE		Algebra	6	0	0	6
302			Geometry	1	0	0	1
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	1	0	0	1
305			Basic Analysis	0	0	0	0
306			Larger-area Analysis	0	0	0	0
			Mathematics total	8	0	0	8
311			Astronomy	0	0	0	0
321			Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	6	1	0	7

Table 25. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Total
322	S C I E N C E		Solid-State Physics I (Optical Properties, Semiconductor and Dielectrics)	1	0	0	1
323			Solid-State Physics II (Magnetism, Metal Physics,	3	0	0	3
324			Physical Properties in General (inclu. Basic Theories)	2	0	0	2
325			Physics in General	1	0	1	2
			Physics total	13	1	1	15
331			Physics of Solid Earth	1	0	0	1
332			Meteorology, Oceanography and Hydrology	2	0	0	2
333			Aeronomy	0	0	0	0
334			Geology	2	0	0	2
335			Stratigraphy and Paleontology	3	0	0	3
336			Mineralogy, Petrology and Study of Mineral Deposit	1	0	0	1
337			Geochemistry	1	0	0	1
			Earth Science total	10	0	0	10
341			Physical Chemistry	7	1	0	8
342			Organic Chemistry	2	0	0	2
343			Inorganic Chemistry	2	1	0	3
344			Function, Properties and Materials in Chemistry	1	0	0	1
345			Substance Transformation	0	0	0	0
346			Separation, Refining and Identification	2	0	0	2
			Chemistry total	14	2	0	16
351			Genetics	2	0	0	2
352			Ecology	2	0	0	2
353			Plant Physiology	4	0	0	4
354			Morphology, Structure of Organism	2	0	0	2
355			Animal Physiology and	0	0	0	0
356			Morphology and Taxonomy	4	0	0	4
			Biology total	14	0	0	14
361			Physical Anthropology (inclu. Physiological Anthropology)	2	0	0	2
			SCIENCE Total	61	3	1	65
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	3	0	0	3
402			Surface Physics	0	0	0	0
403			Applied Optics and Quantum Optics	1	0	0	1
404			General Applied Physics	0	0	0	0
405			Fundamentals of Engineering	0	0	0	0
			Applied Physics-Fundamentals of Engineering total	4	0	0	4
411			Materials for Machines and Strength of Materials	3	0	0	3
412			Workshop Processes and Production Engineering	4	0	0	4
413			Design Engineering, Machine Elements and Tribology	0	0	0	0
414			Fluid Mechanics	0	0	0	0
415			Heat Engineering	2	0	0	2
416			Mechanics and Control Engineering	0	0	1	1
417			Intelligent Mechanics and Machine System	0	0	0	0
			Machine Engineering total	9	0	1	10
421			Electric Power Engineering and Electric Machinery	3	0	0	3
422			Electronic and Electric Materials Engineering	1	0	0	1
423			Electron Devices and Apparatus Engineering	1	0	0	1
424			Information and Communication Engineering	4	0	0	4

Table 25. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subj ect	Subd ivisi on	I t e m	Universities	Junior Colleges	Colleges of Technology	Total
425	E N G I N E E R I N G		System Engineering	0	0	0	0
427			Electronic Measurements	1	0	0	1
428			Control Engineering	0	0	0	0
			Electric and Electronic Engineering	10	0	0	10
431			Construction Materials and Dynamics in General Civil Engineering	0	0	0	0
432			Structural Engineering and Seismology	0	0	0	0
433			Ground Engineering	1	0	0	1
434			Hydraulics and River Engineering	0	0	1	1
435			Traffic Engineering and Regional Planning	0	0	0	0
436			Civil Environmental System	0	0	0	0
			Civil Engineering total	1	0	1	2
441		N	Building Structure and Materials	2	0	0	2
442			Building Science and Building Equipment	1	1	0	2
443		G	City Planning and Building Planning	5	0	0	5
444		I	Architectural History and Design	0	0	0	0
			Architecture total	8	1	0	9
451		N	Physical Metallurgy	1	0	0	1
452			Inorganic Materials and	0	0	0	0
453		E	Composed Materials and Properties	0	0	0	0
454		E	Structural and Functional Materials	1	0	0	1
455		R	Metallurgy and Material	0	0	0	0
456			Metal Productive Engineering	0	0	0	0
			Material Engineering total	2	0	0	2
461		I N D U S T R I A L	Chemical Engineering in General	1	0	0	1
462			Reaction and Separation Engineering	2	0	0	2
463			Catalyst and Chemical Process	0	0	0	0
464			Bioengineering	2	0	0	2
465			Industrial Analytical Chemistry	1	0	0	1
			Process Engineering total	6	0	0	6
471			Industrial Physical Chemistry	2	0	0	2
472			Industrial Inorganic Chemistry	0	0	0	0
473			Industrial Organic Chemistry	0	0	0	0
474			Synthetic Chemistry	0	0	0	0
475			Polymer Synthesis	1	0	0	1
476			Polymer Structure and Property (inclu. Fiber)	1	0	0	1
			Industrial Chemistry total	4	0	0	4
481			Aeronautics	0	0	0	0
482			Ship Engineering	3	0	0	3
483			Marine Engineering	1	0	0	1
484			Resource Development Engineering	1	0	0	1
			Synthetic Engineering total	5	0	0	5
			ENGINEERING Total	49	1	2	52
501	A G R I C U L T U R E		Plant Breeding	1	0	0	1
502			Crop Science	0	0	0	0
503			Horticulture and Landscape Architecture	9	0	0	9
504			Plant Protection	0	0	0	0
505			Sericultural Science and Economic Entomology	0	0	0	0
			Agriculture total	10	0	0	10
511			Plant Fertilizer and Manure and Soil Science	0	0	0	0
512			Applied Microbiochemistry and Applied Biochemistry	1	1	0	2
513			Biological Productive Chemistry and Bioorganic Chemistry	0	0	0	0
514			Food Science and Nutritional Chemistry	6	0	0	6

Table 25. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Total
	A		Agricultural Chemistry total	7	1	0	8
521			Forestry	4	0	0	4
522	G		Wood Science	1	0	0	1
			Forestry total	5	0	0	5
531	R		Fisheries in General	2	0	0	2
532			Fisheries Chemistry	0	0	0	0
			Fisheries total	2	0	0	2
541	I		Agricultural Economics	3	0	0	3
551	C		Irrigation, Drainage and Reclamation Engineering and Rural Planning	1	0	0	1
552	U		Agricultural Machinery	0	0	0	0
553	L		Biological Environment	1	0	0	1
			Agricultural Engineering total	2	0	0	2
561	T		Animal Science and Grassland Science	0	0	0	0
562	U		Applied Animal Science	0	0	0	0
563	R		Basic Veterinary Medicine and Basic Animal Science	1	0	0	1
564			Applied Veterinary Medicine	2	0	0	2
	E		Animal Science·Veterinary Medicine total	3	0	0	3
571			Biological Resource Science	2	0	0	2
572			Applied Molecular Cell Biology	0	0	0	0
			Interdisciplinary Agricultural Science total	2	0	0	2
			AGRICULTURE Total	34	1	0	35
601			Anatomy in General (inclu. Histology, Embryology)	2	0	0	2
602			Physiology in General	1	0	0	1
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	0	1	0	1
604			Pharmacology in General	2	0	0	2
605			Medical Chemistry in General	0	0	0	0
606			Pathological Medical Chemistry	0	0	0	0
	M		Physiology total	5	1	0	6
611			Hominal Pathology	0	0	0	0
612	E		Experimental Pathology	2	0	0	2
613	D		Parasitology (inclu. Medical Zoology)	0	0	0	0
614			Bacteriology (inclu. Eumycetes)	0	0	0	0
615	I		Virology	0	0	0	0
616			Immunology	0	0	0	0
	C		Pathology total	2	0	0	2
621			Hygiene	1	1	0	2
622	I		Public Health and Health Science	7	1	0	8
623			Legal Medicine	1	0	0	1
	N		Social Medicine total	9	2	0	11
631	E		Internal Medicine in General	2	0	0	2
632			Gastroenterology	3	0	0	3
633			Internal Medicine Respiratory System	1	0	0	1
634			Neurological Medicine	0	0	0	0
635			Cardioangiopathy	1	0	0	1
636			Pediatrics	2	0	0	2
637			Dermatology	1	0	0	1
638			Radiology	0	0	0	0
639			Neuropsychiatry	3	0	0	3
641			Hematology	3	0	0	3
642			Internal Medicine of Kidney	1	0	0	1
643			Embryology and Newborn	0	0	0	0
644			Endocrinology	0	0	0	0
645			Metabolic Science	0	0	0	0
			Internal Medicine total	17	0	0	17
651			Surgery in General	0	0	0	0
652			Gastroenterological Surgery	3	0	0	3
653			Thoracic Surgery	2	0	0	2

Table 25. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subj ect	Subd ivision	I t e m	Universities	Junior Colleges	Colleges of Technology	Total	
654	M		Neurosurgery	0	0	0	0	
655			Orthopedic Surgery	6	0	0	6	
656			Anesthesiology and Rescue Medicine	5	0	0	5	
657			Urology	2	0	0	2	
658			Obstetrics and Gynecology	1	0	0	1	
659			Oto-rhino-laryngology	2	0	0	2	
660			Ophthalmology	1	0	0	1	
661			Pediatric Surgery	0	0	0	0	
662			Formative Surgery	0	0	0	0	
			Surgery total	22	0	0	22	
671		E		Oral Anatomy and Morphological Basic Dentistry	2	0	0	2
672		D		Functional Basic Dentistry	0	0	0	0
673		I		Morbid Dentistry (inclu. Dental Radiology)	0	0	0	0
674		C		Conservative Dentistry	0	0	0	0
675				Prosthodontics and Dental Technology	0	0	0	0
676		I		Oral Surgery	2	0	0	2
677		N		Orthodontics, Pedodontics and Social Dentistry	0	0	0	0
678				Periodontological Dentistry	0	0	0	0
		E		Dentistry total	4	0	0	4
681				Chemical Pharmaceutics	0	0	0	0
682	Physical Pharmaceutics			1	0	0	1	
683	Biopharmaceutics			2	1	0	3	
684	Molecular Pharmaceutics			0	0	0	0	
685	Environmental Pharmaceutics			1	0	0	1	
	Pharmaceutics total		4	1	0	5		
691			Medical Sociology	1	1	0	2	
692			Human Genetics	0	0	0	0	
693			Applied Pharmacology and Medical Pharmacology	0	0	0	0	
694			Pathological Examination	0	0	0	0	
696			Science of Basic and Local Nursing	6	0	0	6	
697			Science of Clinical Nursing	8	4	0	12	
			Medicine in General total	15	5	0	20	
	MEDICINE Total			78	9	0	87	
702	I N T E R D I S C I P L I N A R Y A R E A		History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	1	0	0	1	
703			Physical Education	5	0	0	5	
704				Human Geography	2	0	0	2
705				Physical Geography	3	0	0	3
			Geography total	5	0	0	5	
706			Home Science(inclu. Cloth/Living Environments)	0	0	0	0	
707			Food Culture	1	1	0	2	
		Domestic Science total	1	1	0	2		
708		Science of Cultural Property	0	0	0	0		
711			Science Education	0	0	0	0	
712			Educational Engineering	1	0	0	1	
713			Curriculum Studies	3	2	0	5	
714			Japanese Language Education	0	0	0	0	
		Science Education·Curriculum Education total	4	2	0	6		
721		Statistics	1	0	0	1		
731			Computer Science	5	0	1	6	
732			Intelligent Informatics	2	0	0	2	
733	I		Study of Information System (Inclu. Library and Information Science)	3	0	0	3	
			Information Science total	10	0	1	11	
741		Social System Engineering	5	0	0	5		
751		Natural Disaster Science	1	0	0	1		
761		Plasma Science and Technology	0	0	0	0		
772		Nuclear Fusion	0	0	0	0		

Table 25. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subj ect	Subd ivisio n	I t e m	Universities	Junior Colleges	Colleges of Technology	Total
773	N T E		Energy Science General	0	0	0	0
774			Nuclear Power Science	0	0	0	0
			Energy total	0	0	0	0
801	R D I		Environmental Dynamic Analysis	2	0	0	2
802			Environmental Influence Assessment (inclu. Radiobiology)	2	1	0	3
803			Environmental Preservation	5	0	0	5
	C I P		Environmental Science total	9	1	0	10
811			Biological Organic Chemistry	0	0	0	0
812			Structured Biochemistry	0	0	0	0
813	L I N		Functional Biochemistry	1	0	0	1
			Biological Chemistry total	1	0	0	1
821			Biophysics	1	0	0	1
822	A R Y		Molecular Biology	3	0	0	3
823			Cell Biology	1	0	0	1
824			Developmental Biology	2	0	0	2
	A R E		Basic Biology total	7	0	0	7
831			Neuroanatomy and Neuropathology	1	0	0	1
832			Neurochemistry and Neuropharmacology	1	0	0	1
833	A		Neuro Science in General	1	0	0	1
834			Neuro and Muscular Physiology	2	0	0	2
			Neuro Science (inclu. Brain Science) total	5	0	0	5
841			Laboratory Animal Science	1	0	0	1
851			Medical Organism Engineering and Material Science of Organism	1	0	0	1
			INTERDISCIPLINARY AREA Total	57	4	1	62
999			WIDE AREA Total	9	0	0	9
			Item n.a. Total	222	17	1	240
			Grand Total	653	59	6	718

Table 26. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (Private Institutions)

Code	Subj ect	Subd ivision	I t e m	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total
211	ARTS • HUMANITIES		Philosophy	31	5	0	0	36
212			Chinese Philosophy	7	0	0	0	7
213			Indian Philosophy (inclu. Buddhist Studies)	15	0	0	1	16
214			Religion	33	4	0	1	38
215			Ethics	5	2	0	0	7
216			History of Philosophy	17	3	0	0	20
217			Aesthetics (inclu. Arts)	108	33	0	1	142
218			Art History	25	1	0	1	27
		Philosophy total	241	48	0	4	293	
221			Experimental Psychology	15	1	0	0	16
222			Educational and Social	52	7	0	0	59
223			Sociology	115	7	0	0	122
224			Education	57	13	0	0	70
225			Cultural Anthropology (inclu. Ethnology and Folklore)	62	5	0	0	67
		Psychology • Sociology • Education Cultural Anthropology total		301	33	0	0	334
231			Japanese History	12	1	0	0	13
232			Oriental History	33	2	0	1	36
233			European History	57	5	0	1	63
234			Archaeology (inclu. Prehistory)	12	4	0	1	17
		History total		114	12	0	3	129
241			Japanese Language	7	2	0	0	9
242			Japanese Literature	27	4	0	0	31
243			Chinese Language and Literature	26	0	0	0	26
244			English Language and Literature	142	26	0	0	168
245			French Language and Literature	58	6	0	0	64
246			German Language and Literature	39	0	0	0	39
247			Other Foreign Languages and Literatures	52	2	0	0	54
248			Linguistics and Phonetics	79	10	0	0	89
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	16	4	0	0	20
		Literature total		446	54	0	0	500
	ARTS•HUMANITIES Total			1,102	147	0	7	1,256
261	LAW		Basic Science of Law	12	2	0	0	14
262			Public Law	24	1	0	0	25
263			International Law	28	0	0	0	28
264			Civil Law	31	0	0	0	31
265			Social Law	3	0	0	0	3
266			Criminal Law	12	0	0	0	12
267			Politics	73	0	0	0	73
	LAW Total		183	3	0	0	186	
271	ECONOMICS		General Theory of Economics	39	2	0	0	41
272			Economical Statistics	6	0	0	0	6
273			Economic Policy (inclu. Economic Condition)	76	1	0	0	77
274			Economic History	32	0	1	0	33
275			Public Finance, Money and Banking	13	1	0	0	14
276			Commercial Science	17	0	0	0	17
277			Business Administration	52	5	0	0	57
278			Accounting	28	1	0	0	29
	ECONOMICS Total		263	10	1	0	274	
301	SCIENCE		Algebra	17	1	0	0	18
302			Geometry	6	0	0	0	6
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	11	1	0	0	12
305			Basic Analysis	12	0	0	0	12
306			Larger-area Analysis	7	0	0	0	7
		Mathematics total		53	2	0	0	55
311		Astronomy	3	0	0	0	3	
321		Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	20	0	0	0	20	

Table 26. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (Private Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total
322	S C I E N C E		Solid-State Physics I (Optical Properties, Semiconductor and Dielectrics)	8	0	0	0	8
323			Solid-State Physics II (Magnetism, Metal Physics,	9	0	0	1	10
324			Physical Properties in General (inclu. Basic Theories)	9	1	0	0	10
325			Physics in General	5	0	0	0	5
			Physics total	51	1	0	1	53
331			Physics of Solid Earth	1	0	0	0	1
332			Meteorology, Oceanography and Hydrology	4	0	0	0	4
333			Aeronomy	3	0	0	0	3
334			Geology	2	0	0	1	3
335			Stratigraphy and Paleontology	2	0	0	0	2
336			Mineralogy, Petrology and Study of Mineral Deposit	0	0	0	0	0
337			Geochemistry	2	0	0	0	2
			Earth Science total	14	0	0	1	15
341			Physical Chemistry	6	1	0	0	7
342			Organic Chemistry	6	0	0	0	6
343			Inorganic Chemistry	3	1	0	0	4
344			Function, Properties and Materials in Chemistry	3	0	0	0	3
345			Substance Transformation	1	0	0	0	1
346			Separation, Refining and Identification	5	0	0	0	5
			Chemistry total	24	2	0	0	26
351			Genetics	3	0	0	0	3
352			Ecology	16	1	0	1	18
353			Plant Physiology	6	1	0	0	7
354			Morphology, Structure of Organism	3	0	0	1	4
355			Animal Physiology and	1	0	0	0	1
356			Morphology and Taxonomy	6	0	0	0	6
			Biology total	35	2	0	2	39
361			Physical Anthropology (inclu. Physiological Anthropology)	5	0	0	0	5
	SCIENCE Total			185	7	0	4	196
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	3	0	0	0	3
402			Surface Physics	5	0	0	0	5
403			Applied Optics and Quantum Optics	1	0	0	0	1
404			General Applied Physics	2	1	0	0	3
405			Fundamentals of Engineering	1	0	0	0	1
			Applied Physics-Fundamentals of Engineering total	12	1	0	0	13
411			Materials for Machines and Strength of Materials	7	0	0	0	7
412			Workshop Processes and Production Engineering	7	0	0	0	7
413			Design Engineering, Machine Elements and Tribology	5	0	0	0	5
414			Fluid Mechanics	12	0	0	0	12
415			Heat Engineering	3	1	0	0	4
416			Mechanics and Control Engineering	4	0	0	0	4
417			Intelligent Mechanics and Machine System	5	0	0	0	5
			Machine Engineering total	43	1	0	0	44
421			Electric Power Engineering and Electric Machinery	6	0	1	0	7
422			Electronic and Electric Materials Engineering	8	2	0	0	10
423			Electron Devices and Apparatus Engineering	18	0	0	0	18
424			Information and Communication Engineering	17	0	0	0	17

Table 26. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (Private Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total
425	E N G I N E E R I N G		System Engineering	5	0	0	0	5
427			Electronic Measurements	9	0	0	0	9
428			Control Engineering	3	0	0	0	3
			Electric and Electronic Engineering	66	2	1	0	69
431			Construction Materials and Dynamics in General Civil Engineering	7	0	0	0	7
432			Structural Engineering and Seismology	11	1	0	0	12
433			Ground Engineering	2	0	0	0	2
434			Hydraulics and River Engineering	5	0	0	0	5
435			Traffic Engineering and Regional Planning	8	0	0	0	8
436			Civil Environmental System	3	0	0	0	3
			Civil Engineering total	36	1	0	0	37
441		N	Building Structure and Materials	11	0	0	0	11
442			Building Science and Building Equipment	6	0	0	0	6
443			City Planning and Building Planning	37	3	0	0	40
444			Architectural History and Design	22	2	0	0	24
			Architecture total	76	5	0	0	81
451		N	Physical Metallurgy	2	0	0	0	2
452			Inorganic Materials and	3	1	0	0	4
453			Composed Materials and Properties	0	0	0	0	0
454			Structural and Functional Materials	2	0	0	0	2
455		R	Metallurgy and Material	5	0	0	0	5
456			Metal Productive Engineering	1	0	0	0	1
			Material Engineering total	13	1	0	0	14
461		I	Chemical Engineering in General	3	0	0	0	3
462			Reaction and Separation Engineering	1	0	0	0	1
463			Catalyst and Chemical Process	0	0	0	0	0
464			Bioengineering	3	0	0	0	3
465			Industrial Analytical Chemistry	1	0	0	0	1
			Process Engineering total	8	0	0	0	8
471			Industrial Physical Chemistry	2	0	0	0	2
472			Industrial Inorganic Chemistry	0	0	0	0	0
473			Industrial Organic Chemistry	0	0	0	0	0
474			Synthetic Chemistry	5	0	0	0	5
475			Polymer Synthesis	2	0	0	0	2
476			Polymer Structure and Property (inclu. Fiber)	6	0	0	0	6
			Industrial Chemistry total	15	0	0	0	15
481			Aeronautics	2	0	0	0	2
482			Ship Engineering	0	0	0	0	0
483			Marine Engineering	1	0	0	0	1
484			Resource Development Engineering	2	0	0	0	2
			Synthetic Engineering total	5	0	0	0	5
			ENGINEERING Total	274	11	1	0	286
501	A G R I C U L T U R E		Plant Breeding	1	0	0	0	1
502			Crop Science	0	0	0	0	0
503			Horticulture and Landscape Architecture	5	2	0	0	7
504			Plant Protection	2	0	0	0	2
505			Sericultural Science and Economic Entomology	0	0	0	1	1
			Agriculture total	8	2	0	1	11
511			Plant Fertilizer and Manure and Soil Science	3	0	0	0	3
512			Applied Microbiochemistry and Applied Biochemistry	9	0	0	0	9
513			Biological Productive Chemistry and Bioorganic Chemistry	3	1	0	0	4
514			Food Science and Nutritional Chemistry	6	1	0	0	7

Table 26. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (Private Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total
	A		Agricultural Chemistry total	21	2	0	0	23
521			Forestry	8	0	0	0	8
522	G		Wood Science	1	0	0	0	1
			Forestry total	9	0	0	0	9
531	R		Fisheries in General	6	0	0	0	6
532			Fisheries Chemistry	3	0	0	0	3
			Fisheries total	9	0	0	0	9
541	I		Agricultural Economics	12	0	0	0	12
551	C		Irrigation, Drainage and Reclamation Engineering and Rural Planning	7	0	0	0	7
552	U		Agricultural Machinery	0	1	0	0	1
553	L		Biological Environment	1	0	0	0	1
			Agricultural Engineering total	8	1	0	0	9
561	T		Animal Science and Grassland Science	4	0	0	0	4
562	U		Applied Animal Science	5	0	0	0	5
563	R		Basic Veterinary Medicine and Basic Animal Science	10	0	0	0	10
564			Applied Veterinary Medicine	6	0	0	0	6
	E		Animal Science-Veterinary Medicine total	25	0	0	0	25
571			Biological Resource Science	2	0	0	0	2
572			Applied Molecular Cell Biology	2	0	0	0	2
			Interdisciplinary Agricultural Science total	4	0	0	0	4
			AGRICULTURE Total	96	5	0	1	102
601			Anatomy in General (inclu. Histology, Embryology)	8	0	0	0	8
602			Physiology in General	5	1	0	0	6
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	13	1	0	0	14
604			Pharmacology in General	11	1	0	0	12
605			Medical Chemistry in General	4	0	0	0	4
606			Pathological Medical Chemistry	4	0	0	0	4
	M		Physiology total	45	3	0	0	48
611			Hominal Pathology	5	0	0	0	5
612	E		Experimental Pathology	3	0	0	0	3
613	D		Parasitology (inclu. Medical Zoology)	3	0	0	0	3
614			Bacteriology (inclu. Eumycetes)	7	0	0	0	7
615	I		Virology	1	0	0	1	2
616			Immunology	7	0	0	0	7
	C		Pathology total	26	0	0	1	27
621			Hygiene	4	0	0	0	4
622	I		Public Health and Health Science	14	1	0	0	15
623			Legal Medicine	3	0	0	0	3
	N		Social Medicine total	21	1	0	0	22
631	E		Internal Medicine in General	9	0	0	0	9
632			Gastroenterology	7	0	0	0	7
633			Internal Medicine Respiratory System	6	0	0	0	6
634			Neurological Medicine	6	0	0	0	6
635			Cardioangiopathy	8	0	0	1	9
636			Pediatrics	6	0	0	0	6
637			Dermatology	1	0	0	0	1
638			Radiology	8	0	0	0	8
639			Neuropsychiatry	10	1	0	0	11
641			Hematology	5	0	0	0	5
642			Internal Medicine of Kidney	2	1	0	0	3
643			Embryology and Newborn	2	0	0	0	2
644			Endocrinology	0	0	0	0	0
645			Metabolic Science	0	0	0	0	0
			Internal Medicine total	70	2	0	1	73
651			Surgery in General	8	0	0	0	8
652			Gastroenterological Surgery	5	0	0	0	5
653			Thoracic Surgery	3	0	0	0	3

Table 26. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (Private Institutions)

Code	Subj ect	Subd ivision	I t e m	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total	
654	M		Neurosurgery	7	0	0	0	7	
655			Orthopedic Surgery	11	0	0	0	11	
656			Anesthesiology and Rescue Medicine	4	0	0	0	4	
657			Urology	5	0	0	0	5	
658			Obstetrics and Gynecology	5	0	0	0	5	
659			Oto-rhino-laryngology	0	0	0	0	0	
660			Ophthalmology	7	0	0	0	7	
661			Pediatric Surgery	1	0	0	0	1	
662			Formative Surgery	1	0	0	0	1	
			Surgery total	57	0	0	0	57	
671	E		Oral Anatomy and Morphological Basic Dentistry	6	0	0	0	6	
672	D		Functional Basic Dentistry	3	0	0	0	3	
673	I		Morbid Dentistry (inclu. Dental Radiology)	4	0	0	0	4	
674	C		Conservative Dentistry	3	0	0	0	3	
675			Prosthodontics and Dental Technology	15	0	0	0	15	
676	I		Oral Surgery	6	0	0	0	6	
677	N		Orthodontics, Pedodontics and Social Dentistry	12	0	0	0	12	
678			Periodontological Dentistry	6	0	0	0	6	
	E		Dentistry total	55	0	0	0	55	
681				Chemical Pharmaceutics	18	0	0	0	18
682		Physical Pharmaceutics		9	1	0	0	10	
683		Biopharmaceutics		20	0	0	0	20	
684		Molecular Pharmaceutics		5	0	0	0	5	
685		Environmental Pharmaceutics		5	0	0	0	5	
		Pharmaceutics total	57	1	0	0	58		
691			Medical Sociology	5	0	0	0	5	
692			Human Genetics	7	0	0	0	7	
693			Applied Pharmacology and Medical Pharmacology	6	0	0	0	6	
694			Pathological Examination	6	0	0	0	6	
696			Science of Basic and Local Nursing	4	2	0	0	6	
697			Science of Clinical Nursing	9	0	0	0	9	
			Medicine in General total	37	2	0	0	39	
	MEDICINE Total			368	9	0	2	379	
702	I N T E R D I S C I P L I N A R Y		History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	5	0	0	0	5	
703			Physical Education	43	9	0	0	52	
704				Human Geography	21	0	0	0	21
705				Physical Geography	10	0	0	0	10
			Geography total	31	0	0	0	31	
706				Home Science(inclu. Cloth/Living Environments)	20	9	0	0	29
707				Food Culture	1	2	0	0	3
			Domestic Science total	21	11	0	0	32	
708			Science of Cultural Property	2	0	0	0	2	
711				Science Education	7	1	0	0	8
712	Educational Engineering	11		1	0	0	12		
713	Curriculum Studies	22		10	0	0	32		
714	Japanese Language Education	7		0	0	0	7		
	Science Education·Curriculum Education total	47		12	0	0	59		
721	A R E A		Statistics	8	0	0	0	8	
731			Computer Science	23	1	1	0	25	
732		Intelligent Informatics	12	0	0	0	12		
733			Study of Information System (Inclu. Library and Information Science)	16	4	0	0	20	
			Information Science total	51	5	1	0	57	
741		Social System Engineering	23	0	0	0	23		
751		Natural Disaster Science	1	1	0	0	2		
761		I	Plasma Science and Technology	0	0	0	0	0	
772			Nuclear Fusion	1	0	0	0	1	

Table 26. Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (Private Institutions)

Code	Subj ect	Subd ivisi on	I t e m	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total
773	N T E R D I S C I P L I N A R Y A R E A		Energy Science General	3	0	0	0	3
774			Nuclear Power Science	2	0	0	0	2
			Energy total	6	0	0	0	6
801			Environmental Dynamic Analysis	8	0	0	0	8
802			Environmental Influence Assessment (inclu. Radiobiology)	3	0	0	1	4
803			Environmental Preservation	13	1	0	0	14
			Environmental Science total	24	1	0	1	26
811			Biological Organic Chemistry	4	0	0	1	5
812			Structured Biochemistry	1	0	0	0	1
813			Functional Biochemistry	6	0	0	0	6
			Biological Chemistry total	11	0	0	1	12
821			Biophysics	5	0	0	0	5
822			Molecular Biology	10	0	0	1	11
823			Cell Biology	6	0	0	1	7
824			Developmental Biology	1	0	0	0	1
			Basic Biology total	22	0	0	2	24
831			Neuroanatomy and Neuropathology	5	0	0	0	5
832			Neurochemistry and Neuropharmacology	6	0	0	0	6
833			Neuro Science in General	8	0	0	0	8
834			Neuro and Muscular Physiology	3	1	0	0	4
			Neuro Science (inclu. Brain Science) total	22	1	0	0	23
841			Laboratory Animal Science	0	0	0	0	0
851			Medical Organism Engineering and Material Science of Organism	14	1	0	0	15
			INTERDISCIPLINARY AREA Total		331	41	1	4
999	WIDE AREA Total			81	14	0	0	95
	Item n.a. Total			1,327	85	0	17	1,429
	Grand Total			4,210	332	3	35	4,580

Table 27. Number of Researchers Who Have Participated in International Conference, Etc., Overseas by Field of Specialization / by Institution Type (Japan)

Code	Subj ect	Subd ivisi on	I t e m	Universities	Junior Colleges	Colleges of Technology	Inter- University Research Institutes	Governmen t Research Institutes	Private Scientific Research Institutes	Total
211	ARTS • HUMANITIES	Philosophy	Philosophy	56	4	2	0	0	0	62
212			Chinese Philosophy	16	2	0	0	0	0	18
213			Indian Philosophy (inclu. Buddhist Studies)	45	4	2	0	0	1	52
214			Religion	52	3	1	0	0	0	56
215			Ethics	23	0	0	0	0	0	23
216			History of Philosophy	30	1	1	0	0	0	32
217			Aesthetics (inclu. Arts)	119	19	0	0	0	1	139
218			Art History	21	1	0	0	1	0	23
			Philosophy total	362	34	6	0	1	2	405
221		Psychology • Sociology • Education	Experimental Psychology	102	5	0	2	1	1	111
222			Educational and Social	206	15	0	1	0	0	222
223			Sociology	186	14	0	0	0	0	200
224			Education	170	19	0	4	0	0	193
225			Cultural Anthropology (inclu. Ethnology and Folklore)	73	2	0	1	1	0	77
			Psychology • Sociology • Education Cultural Anthropology total	737	55	0	8	2	1	803
231		History	Japanese History	41	1	1	0	0	0	43
232			Oriental History	71	3	1	0	1	0	76
233			European History	47	1	0	0	0	1	49
234			Archaeology (inclu. Prehistory)	34	0	0	0	1	2	37
			History total	193	5	2	0	2	3	205
241		Languages and Literatures	Japanese Language	30	1	0	0	2	0	33
242			Japanese Literature	63	4	1	0	0	0	68
243			Chinese Language and Literature	77	2	1	0	0	0	80
244			English Language and Literature	199	22	3	0	0	0	224
245			French Language and Literature	59	2	0	0	0	0	61
246			German Language and Literature	34	0	0	0	0	0	34
247			Other Foreign Languages and Literatures	78	8	1	0	0	0	87
248			Linguistics and Phonetics	172	12	4	0	1	0	189
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	34	3	0	0	0	0	37
			Literature total	746	54	10	0	3	0	813
			ARTS • HUMANITIES Total	2,038	148	18	8	8	6	2,226
261	LAW	Basic Science of Law	Basic Science of Law	27	2	0	0	0	0	29
262			Public Law	25	1	0	0	0	0	26
263			International Law	42	1	0	0	0	0	43
264			Civil Law	42	0	0	0	0	1	43
265			Social Law	15	1	0	0	0	0	16
266			Criminal Law	14	0	0	0	0	0	14
267			Politics	104	1	1	0	0	0	106
			LAW Total	269	6	1	0	0	1	277
271	ECONOMICS	General Theory of Economics	General Theory of Economics	98	3	0	0	0	0	101
272			Economical Statistics	27	0	0	0	0	0	27
273			Economic Policy (inclu. Economic Condition)	127	2	0	0	0	2	131
274			Economic History	33	0	0	0	0	0	33
275			Public Finance, Money and Banking	46	1	0	0	0	0	47
276			Commercial Science	32	1	0	0	0	0	33
277			Business Administration	136	9	0	0	0	0	145
278			Accounting	41	4	0	0	0	0	45
			ECONOMICS Total	540	20	0	0	0	2	562
301	SCIENCE	Mathematics	Algebra	71	1	3	0	0	0	75
302			Geometry	49	0	4	0	0	0	53
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	108	1	4	0	0	0	113
305			Basic Analysis	79	0	3	0	0	0	82
306			Larger-area Analysis	42	0	0	0	0	0	42
			Mathematics total	349	2	14	0	0	0	365
311			Astronomy	42	1	2	7	0	0	52
321			Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	156	3	1	25	1	0	186

Table 27. Number of Researchers Who Have Participated in International Conference, Etc., Overseas by Field of Specialization / by Institution Type (Japan)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Private Scientific Research Institutes	Total
322	S C I E N C E		Solid-State Physics I (Optical Properties, Semiconductor and Dielectrics)	103	0	2	0	0	0	105
323			Solid-State Physics II (Magnetism, Metal Physics,	96	1	3	0	0	1	101
324			Physical Properties in General (inclu. Basic Theories)	68	2	1	0	0	0	71
325			Physics in General	57	2	5	1	0	0	65
			Physics total	480	8	12	26	1	1	528
331			Physics of Solid Earth	59	1	0	0	0	0	60
332			Meteorology, Oceanography and Hydrology	60	0	3	0	0	0	63
333			Aeronomy	16	0	1	0	0	0	17
334			Geology	42	0	0	0	0	0	42
335			Stratigraphy and Paleontology	19	0	0	0	0	0	19
336			Mineralogy, Petrology and Study of Mineral Deposit	44	0	0	0	1	0	45
337			Geochemistry	26	0	1	0	0	0	27
			Earth Science total	266	1	5	0	1	0	273
341			Physical Chemistry	125	3	0	2	0	0	130
342			Organic Chemistry	80	1	2	0	0	2	85
343			Inorganic Chemistry	58	1	0	0	0	0	59
344			Function, Properties and Materials in Chemistry	77	1	0	0	0	0	78
345			Substance Transformation	16	0	0	0	0	0	16
346			Separation, Refining and Identification	42	0	2	0	0	0	44
			Chemistry total	398	6	4	2	0	2	412
351			Genetics	49	0	0	0	0	1	50
352			Ecology	79	0	0	0	0	3	82
353			Plant Physiology	52	0	0	0	0	1	53
354			Morphology, Structure of Organism	33	1	0	0	0	1	35
355			Animal Physiology and	35	0	0	0	0	1	36
356			Morphology and Taxonomy	33	0	0	0	5	2	40
			Biology total	281	1	0	0	5	9	296
361			Physical Anthropology (inclu. Physiological Anthropology)	31	0	0	0	0	0	31
	SCIENCE Total			1,847	19	37	35	7	12	1,957
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	62	0	1	0	0	0	63
402			Surface Physics	45	0	0	0	0	0	45
403			Applied Optics and Quantum Optics	84	0	2	1	0	0	87
404			General Applied Physics	31	2	2	3	0	2	40
405			Fundamentals of Engineering	23	0	1	0	0	0	24
			Applied Physics-Fundamentals of Engineering total	245	2	6	4	0	2	259
411			Materials for Machines and Strength of Materials	117	0	11	0	0	0	128
412			Workshop Processes and Production Engineering	72	1	10	0	0	0	83
413			Design Engineering, Machine Elements and Tribology	55	2	5	1	0	1	64
414			Fluid Mechanics	113	0	9	0	0	0	122
415			Heat Engineering	96	2	8	1	0	0	107
416			Mechanics and Control Engineering	62	0	15	0	0	0	77
417			Intelligent Mechanics and Machine System	93	0	5	1	0	0	99
			Machine Engineering total	608	5	63	3	0	1	680
421			Electric Power Engineering and Electric Machinery	129	0	17	1	0	0	147
422			Electronic and Electric Materials Engineering	125	2	9	0	0	0	136
423			Electron Devices and Apparatus Engineering	122	0	11	0	0	0	133
424			Information and Communication Engineering	225	3	15	1	0	0	244

Table 27. Number of Researchers Who Have Participated in International Conference, Etc., Overseas by Field of Specialization / by Institution Type (Japan)

Code	Subj ect	Subd ivisi on	I t e m	Universities	Junior Colleges	Colleges of Technology	Inter- University Research Institutes	Governmen t Research Institutes	Private Scientific Research Institutes	Total
425	E N G I N E E R I N G		System Engineering	46	0	2	0	0	0	48
427			Electronic Measurements	100	1	12	0	0	0	113
428			Control Engineering	83	0	6	0	0	0	89
			Electric and Electronic Engineering	830	6	72	2	0	0	910
431			Construction Materials and Dynamics in General Civil Engineering	42	0	2	0	0	0	44
432			Structural Engineering and Seismology	69	3	4	0	0	0	76
433			Ground Engineering	70	0	8	0	0	1	79
434			Hydraulics and River Engineering	76	0	7	0	0	0	83
435			Traffic Engineering and Regional Planning	55	0	5	0	0	0	60
436			Civil Environmental System	53	0	3	0	0	0	56
			Civil Engineering total	365	3	29	0	0	1	398
441		G	Building Structure and Materials	79	0	2	0	0	0	81
442			Building Science and Building Equipment	58	1	0	0	0	1	60
443			City Planning and Building Planning	101	5	2	0	0	0	108
444			Architectural History and Design	20	1	0	0	0	0	21
			Architecture total	258	7	4	0	0	1	270
451		N	Physical Metallurgy	52	0	5	0	0	0	57
452			Inorganic Materials and	71	1	5	0	0	0	77
453			Composed Materials and Properties	20	1	3	0	0	0	24
454			Structural and Functional Materials	54	1	2	0	0	0	57
455		R	Metallurgy and Material	70	3	5	0	0	0	78
456			Metal Productive Engineering	22	0	1	0	0	0	23
			Material Engineering total	289	6	21	0	0	0	316
461		G	Chemical Engineering in General	61	0	1	0	0	0	62
462			Reaction and Separation Engineering	30	0	0	0	0	0	30
463			Catalyst and Chemical Process	31	0	0	0	0	0	31
464			Bioengineering	55	0	4	0	0	1	60
465			Industrial Analytical Chemistry	26	0	1	0	0	0	27
			Process Engineering total	203	0	6	0	0	1	210
471			Industrial Physical Chemistry	44	0	0	0	0	0	44
472			Industrial Inorganic Chemistry	23	0	0	0	0	0	23
473			Industrial Organic Chemistry	21	0	0	0	0	0	21
474			Synthetic Chemistry	46	0	3	0	0	0	49
475			Polymer Synthesis	49	0	1	0	0	0	50
476			Polymer Structure and Property (inclu. Fiber)	52	4	0	0	0	0	56
			Industrial Chemistry total	235	4	4	0	0	0	243
481			Aeronautics	29	0	1	0	0	0	30
482			Ship Engineering	27	0	5	0	0	0	32
483			Marine Engineering	13	0	0	0	0	0	13
484			Resource Development Engineering	33	0	2	0	0	0	35
			Synthetic Engineering total	102	0	8	0	0	0	110
			ENGINEERING Total	3,135	33	213	9	0	6	3,396
501	A G R I C U L T U R E		Plant Breeding	29	1	0	0	0	0	30
502			Crop Science	21	0	1	0	0	1	23
503			Horticulture and Landscape Architecture	53	4	0	0	1	0	58
504			Plant Protection	38	1	0	0	0	0	39
505			Sericultural Science and Economic Entomology	9	0	0	0	0	0	9
			Agriculture total	150	6	1	0	1	1	159
511			Plant Fertilizer and Manure and Soil Science	27	0	0	0	0	0	27
512			Applied Microbiochemistry and Applied Biochemistry	106	0	4	0	0	0	110
513			Biological Productive Chemistry and Bioorganic Chemistry	45	0	0	0	0	1	46
514			Food Science and Nutritional Chemistry	78	12	0	0	0	0	90

Table 27. Number of Researchers Who Have Participated in International Conference, Etc., Overseas by Field of Specialization / by Institution Type (Japan)

Code	Subj ect	Subd ivisi on	I t e m	Universities	Junior Colleges	Colleges of Technology	Inter- University Research Institutes	Governmen t Research Institutes	Private Scientific Research Institutes	Total
	A		Agricultural Chemistry total	256	12	4	0	0	1	273
521			Forestry	52	0	0	0	0	0	52
522	G		Wood Science	52	0	0	0	0	0	52
			Forestry total	104	0	0	0	0	0	104
531	R		Fisheries in General	84	0	0	0	0	1	85
532			Fisheries Chemistry	27	0	0	0	0	0	27
			Fisheries total	111	0	0	0	0	1	112
541	I		Agricultural Economics	35	0	0	0	0	0	35
551	C		Irrigation, Drainage and Reclamation Engineering and Rural Planning	48	1	0	0	0	0	49
552	U		Agricultural Machinery	20	1	0	0	0	0	21
553	L		Biological Environment	12	0	0	0	0	0	12
			Agricultural Engineering total	80	2	0	0	0	0	82
561	T		Animal Science and Grassland Science	24	1	0	0	0	0	25
562	U		Applied Animal Science	36	0	0	0	0	0	36
563	R		Basic Veterinary Medicine and Basic Animal Science	37	0	0	0	0	1	38
564			Applied Veterinary Medicine	49	0	0	0	0	1	50
	E		Animal Science·Veterinary Medicine total	146	1	0	0	0	2	149
571			Biological Resource Science	19	0	0	0	0	0	19
572			Applied Molecular Cell Biology	18	1	0	0	0	0	19
			Interdisciplinary Agricultural Science total	37	1	0	0	0	0	38
			AGRICULTURE Total	919	22	5	0	1	5	952
601			Anatomy in General (inclu. Histology, Embryology)	72	1	0	0	0	0	73
602			Physiology in General	78	2	0	0	0	0	80
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	44	4	0	0	0	0	48
604			Pharmacology in General	73	0	0	0	0	0	73
605			Medical Chemistry in General	50	0	0	0	0	0	50
606			Pathological Medical Chemistry	34	1	0	0	0	0	35
	M		Physiology total	351	8	0	0	0	0	359
611			Hominal Pathology	77	1	0	0	0	0	78
612	E		Experimental Pathology	40	0	0	0	0	1	41
613	D		Parasitology (inclu. Medical Zoology)	34	2	0	0	0	0	36
614			Bacteriology (inclu. Eumycetes)	58	2	0	0	0	0	60
615	I		Virology	42	0	0	0	0	2	44
616			Immunology	67	1	0	0	0	2	70
	C		Pathology total	318	6	0	0	0	5	329
621			Hygiene	64	1	0	0	0	1	66
622	I		Public Health and Health Science	130	8	0	0	0	1	139
623			Legal Medicine	38	0	0	0	0	0	38
	N		Social Medicine total	232	9	0	0	0	2	243
631			Internal Medicine in General	102	2	0	0	0	1	105
632	E		Gastroenterology	119	0	0	0	0	2	121
633			Internal Medicine Respiratory System	51	0	0	0	0	2	53
634			Neurological Medicine	78	0	0	0	0	0	78
635			Cardioangiology	148	3	0	0	0	1	152
636			Pediatrics	105	0	0	0	0	0	105
637			Dermatology	57	0	0	0	0	0	57
638			Radiology	126	3	0	0	0	1	130
639			Neuropsychiatry	73	2	0	0	0	0	75
641			Hematology	82	1	0	0	0	0	83
642			Internal Medicine of Kidney	61	1	0	0	0	0	62
643			Embryology and Newborn	7	0	0	0	0	0	7
644			Endocrinology	34	0	0	0	0	0	34
645			Metabolic Science	49	0	0	0	0	0	49
			Internal Medicine total	1,092	12	0	0	0	7	1,111
651			Surgery in General	90	0	0	0	0	1	91
652			Gastroenterological Surgery	91	0	0	0	0	2	93
653			Thoracic Surgery	56	0	0	0	0	0	56

Table 27. Number of Researchers Who Have Participated in International Conference, Etc., Overseas by Field of Specialization / by Institution Type (Japan)

Code	Subj ect	Subd ivisi on	I t e m	Universities	Junior Colleges	Colleges of Technology	Inter- University Research Institutes	Governmen t Research Institutes	Private Scientific Research Institutes	Total	
654	M		Neurosurgery	79	0	0	0	0	0	79	
655			Orthopedic Surgery	150	4	0	0	0	0	154	
656			Anesthesiology and Rescue Medicine	95	0	0	0	0	0	95	
657			Urology	88	0	0	0	0	1	89	
658			Obstetrics and Gynecology	79	0	0	0	0	0	79	
659			Oto-rhino-laryngology	60	0	0	0	0	0	60	
660			Ophthalmology	51	0	0	0	0	0	51	
661			Pediatric Surgery	20	0	0	0	0	0	20	
662			Formative Surgery	27	0	0	0	0	0	27	
			Surgery total	886	4	0	0	0	4	894	
671	E		Oral Anatomy and Morphological Basic Dentistry	63	1	0	0	0	0	64	
672	D		Functional Basic Dentistry	48	0	0	0	0	0	48	
673	I		Morbid Dentistry (inclu. Dental Radiology)	55	0	0	0	0	0	55	
674	C		Conservative Dentistry	83	3	0	0	0	0	86	
675	I		Prosthodontics and Dental Technology	148	2	0	0	0	0	150	
676	I		Oral Surgery	123	0	0	0	0	1	124	
677	N		Orthodontics, Pedodontics and Social Dentistry	128	1	0	0	0	0	129	
678	E		Periodontological Dentistry	39	0	0	0	0	0	39	
	Dentistry total		687	7	0	0	0	1	695		
681			Chemical Pharmaceuticals	100	0	0	0	0	0	100	
682			Physical Pharmaceuticals	45	1	0	0	0	0	46	
683			Biopharmaceutics	105	1	0	0	0	1	107	
684			Molecular Pharmaceuticals	40	0	0	0	0	0	40	
685			Environmental Pharmaceuticals	23	0	0	0	0	0	23	
		Pharmaceutics total	313	2	0	0	0	1	316		
691			Medical Sociology	53	2	0	0	0	0	55	
692			Human Genetics	36	0	0	0	0	1	37	
693			Applied Pharmacology and Medical Pharmacology	40	0	0	0	0	0	40	
694			Pathological Examination	32	3	0	0	0	0	35	
696	Science of Basic and Local Nursing		63	3	1	0	0	0	67		
697	Science of Clinical Nursing		83	4	0	0	0	0	87		
	Medicine in General total	307	12	1	0	0	1	321			
	MEDICINE Total	4,186	60	1	0	0	21	4,268			
702	I N T E R D I S C I P L I N A R Y		History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	20	0	0	0	2	0	22	
703			Physical Education	192	14	4	0	0	0	210	
704			Human Geography	38	0	0	0	0	0	38	
705			Physical Geography	32	0	0	0	0	0	32	
			Geography total	70	0	0	0	0	0	70	
706			Home Science(inclu. Cloth/Living Environments)	54	21	0	0	0	0	75	
707			Food Culture	29	15	0	0	0	0	44	
			Domestic Science total	83	36	0	0	0	0	119	
708			Science of Cultural Property	5	1	0	0	1	0	7	
711			Science Education	37	2	2	0	0	0	41	
712			Educational Engineering	53	2	6	6	0	0	67	
713			Curriculum Studies	92	13	3	0	0	0	108	
714			Japanese Language Education	43	1	0	0	0	0	44	
			Science Education·Curriculum Education total	225	18	11	6	0	0	260	
721		A R E A	Statistics	34	0	0	0	0	0	34	
731			Computer Science	175	0	11	0	0	0	186	
732			Intelligent Informatics	221	5	15	0	0	0	241	
733				Study of Information System (Inclu. Library and Information Science)	124	6	2	2	0	1	135
				Information Science total	520	11	28	2	0	1	562
741	Social System Engineering			121	2	1	0	1	0	125	
751	Natural Disaster Science			14	1	0	0	0	0	15	
761	Plasma Science and Technology			61	0	1	0	0	0	62	
772	I		Nuclear Fusion	19	1	1	0	0	0	21	

Table 27. Number of Researchers Who Have Participated in International Conference, Etc., Overseas by Field of Specialization / by Institution Type (Japan)

Code	Subj ect	Subd ivision	I t e m	Universities	Junior Colleges	Colleges of Technology	Inter- University Research Institutes	Governmen t Research Institutes	Private Scientific Research Institutes	Total
773	N T E R D I S C I P L I N A R Y A R E A		Energy Science General	32	0	1	0	0	0	33
774			Nuclear Power Science	46	0	0	1	0	0	47
			Energy total	97	1	2	1	0	0	101
801			Environmental Dynamic Analysis	48	0	1	0	0	0	49
802			Environmental Influence Assessment (inclu. Radiobiology)	45	2	0	0	0	1	48
803			Environmental Preservation	78	0	3	0	0	2	83
			Environmental Science total	171	2	4	0	0	3	180
811			Biological Organic Chemistry	41	0	1	0	0	2	44
812			Structured Biochemistry	37	0	0	1	0	1	39
813			Functional Biochemistry	56	1	0	0	0	0	57
			Biological Chemistry total	134	1	1	1	0	3	140
821			Biophysics	53	0	1	0	0	0	54
822			Molecular Biology	115	1	0	0	0	1	117
823			Cell Biology	72	0	0	0	0	2	74
824			Developmental Biology	35	0	0	0	0	2	37
			Basic Biology total	275	1	1	0	0	5	282
831			Neuroanatomy and Neuropathology	32	0	0	0	0	0	32
832			Neurochemistry and Neuropharmacology	50	0	0	0	0	1	51
833			Neuro Science in General	84	1	0	0	0	0	85
834			Neuro and Muscular Physiology	52	2	0	0	0	0	54
			Neuro Science (inclu. Brain Science) total	218	3	0	0	0	1	222
841			Laboratory Animal Science	14	0	0	0	0	2	16
851			Medical Organism Engineering and Material Science of Organism	131	3	4	0	0	1	139
			INTERDISCIPLINARY AREA Total	2,385	94	57	10	4	16	2,566
999			WIDE AREA Total	231	19	0	1	0	0	251
			Item n.a. Total	8,253	177	211	45	17	44	8,747
			Grand Total	23,803	598	543	108	37	113	25,202

Table 28. Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Institution Type (National Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Total
211	ARTS • HUMANITIES		Philosophy	17	0	1	0	0	18
212			Chinese Philosophy	6	0	0	0	0	6
213			Indian Philosophy (inclu. Buddhist Studies)	8	0	2	0	0	10
214			Religion	6	0	0	0	0	6
215			Ethics	12	0	0	0	0	12
216			History of Philosophy	7	0	1	0	0	8
217			Aesthetics (inclu. Arts)	32	1	0	0	0	33
218			Art History	6	0	0	0	1	7
		Philosophy total	94	1	4	0	1	100	
221			Experimental Psychology	55	0	0	2	1	58
222			Educational and Social	82	1	0	1	0	84
223			Sociology	39	0	0	0	0	39
224			Education	85	0	0	4	0	89
225			Cultural Anthropology (inclu. Ethnology and Folklore)	26	0	0	1	1	28
		Psychology • Sociology • Education Cultural Anthropology total	287	1	0	8	2	298	
231			Japanese History	15	0	1	0	0	16
232			Oriental History	25	0	1	0	1	27
233			European History	9	0	0	0	0	9
234			Archaeology (inclu. Prehistory)	11	0	0	0	1	12
		History total	60	0	2	0	2	64	
241			Japanese Language	13	0	0	0	2	15
242			Japanese Literature	12	0	1	0	0	13
243			Chinese Language and Literature	21	1	1	0	0	23
244			English Language and Literature	49	0	3	0	0	52
245			French Language and Literature	21	0	0	0	0	21
246			German Language and Literature	8	0	0	0	0	8
247			Other Foreign Languages and Literatures	22	0	1	0	0	23
248			Linguistics and Phonetics	42	0	4	0	1	47
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	10	0	0	0	0	10
		Literature total	198	1	10	0	3	212	
	ARTS • HUMANITIES Total	639	3	16	8	8	674		
261	LAW	Basic Science of Law	8	0	0	0	0	8	
262		Public Law	10	0	0	0	0	10	
263		International Law	9	0	0	0	0	9	
264		Civil Law	10	0	0	0	0	10	
265		Social Law	7	0	0	0	0	7	
266		Criminal Law	4	0	0	0	0	4	
267		Politics	21	0	1	0	0	22	
	LAW Total	69	0	1	0	0	70		
271	ECONOMICS	General Theory of Economics	33	0	0	0	0	33	
272		Economical Statistics	7	0	0	0	0	7	
273		Economic Policy (inclu. Economic Condition)	35	0	0	0	0	35	
274		Economic History	5	0	0	0	0	5	
275		Public Finance, Money and Banking	16	0	0	0	0	16	
276		Commercial Science	4	0	0	0	0	4	
277		Business Administration	23	0	0	0	0	23	
278		Accounting	6	0	0	0	0	6	
	ECONOMICS Total	129	0	0	0	0	129		
301	SCIENCE	Algebra	30	0	3	0	0	33	
302		Geometry	34	0	4	0	0	38	
304		Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	61	0	4	0	0	65	
305		Basic Analysis	45	0	3	0	0	48	
306		Larger-area Analysis	27	0	0	0	0	27	
		Mathematics total	197	0	14	0	0	211	
311		Astronomy	30	0	2	7	0	39	
321		Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	104	0	1	25	1	131	

Table 28. Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Institution Type (National Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Total
322			Solid-State Physics I (Optical Properties, Semiconductor and Dielectrics)	65	0	2	0	0	67
323			Solid-State Physics II (Magnetism, Metal Physics,	65	0	3	0	0	68
324			Physical Properties in General (inclu. Basic Theories)	43	0	1	0	0	44
325			Physics in General	38	0	5	1	0	44
			Physics total	315	0	12	26	1	354
331			Physics of Solid Earth	51	0	0	0	0	51
332			Meteorology, Oceanography and Hydrology	45	0	3	0	0	48
333	S		Aeronomy	9	0	1	0	0	10
334			Geology	33	0	0	0	0	33
335	C		Stratigraphy and Paleontology	18	0	0	0	0	18
336	I		Mineralogy, Petrology and Study of Mineral Deposit	38	0	0	0	1	39
337			Geochemistry	19	0	1	0	0	20
	E		Earth Science total	213	0	5	0	1	219
341			Physical Chemistry	78	0	0	2	0	80
342	N		Organic Chemistry	57	0	2	0	0	59
343			Inorganic Chemistry	37	0	0	0	0	37
344	C		Function, Properties and Materials in Chemistry	53	0	0	0	0	53
345	E		Substance Transformation	10	0	0	0	0	10
346			Separation, Refining and Identification	25	0	2	0	0	27
			Chemistry total	260	0	4	2	0	266
351			Genetics	40	0	0	0	0	40
352			Ecology	61	0	0	0	0	61
353			Plant Physiology	34	0	0	0	0	34
354			Morphology, Structure of	23	0	0	0	0	23
355			Animal Physiology and	26	0	0	0	0	26
356			Morphology and Taxonomy	24	0	0	0	5	29
			Biology total	208	0	0	0	5	213
361			Physical Anthropology (inclu. Physiological Anthropology)	20	0	0	0	0	20
			SCIENCE Total	1,243	0	37	35	7	1,322
401			Applied Physics of Property and Crystallography	36	0	1	0	0	37
402	E		Surface Physics	31	0	0	0	0	31
403			Applied Optics and Quantum	54	0	2	1	0	57
404	N		General Applied Physics	20	0	2	3	0	25
405			Fundamentals of Engineering	13	0	0	0	0	13
	G		Applied Physics·Fundamentals of Engineering total	154	0	5	4	0	163
411	I		Materials for Machines and Strength of Materials	62	0	11	0	0	73
412	N		Workshop Processes and Production Engineering	40	0	10	0	0	50
413	E		Design Engineering, Machine Elements and Tribology	34	1	5	1	0	41
414	E		Fluid Mechanics	68	0	9	0	0	77
415			Heat Engineering	65	0	7	1	0	73
416	R		Mechanics and Control	39	0	13	0	0	52
417	I		Intelligent Mechanics and Machine System	61	0	5	1	0	67
			Machine Engineering total	369	1	60	3	0	433
421	N		Electric Power Engineering and Electric Machinery	70	0	15	1	0	86
422	G		Electronic and Electric Materials Engineering	72	0	9	0	0	81
423			Electron Devices and Apparatus Engineering	70	0	10	0	0	80
424			Information and Communication Engineering	122	0	12	1	0	135
425			System Engineering	22	0	2	0	0	24
427			Electronic Measurements	55	0	12	0	0	67
428			Control Engineering	47	0	5	0	0	52

Table 28. Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Institution Type (National Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Total
			Electric and Electronic Engineering	458	0	65	2	0	525
431			Construction Materials and Dynamics in General Civil Engineering	28	0	2	0	0	30
432			Structural Engineering and Seismology	41	0	4	0	0	45
433			Ground Engineering	48	0	8	0	0	56
434			Hydraulics and River Engineering	50	0	5	0	0	55
435			Traffic Engineering and Regional Planning	31	0	5	0	0	36
436			Civil Environmental System	35	0	3	0	0	38
			Civil Engineering total	233	0	27	0	0	260
441			Building Structure and Materials	40	0	2	0	0	42
442			Building Science and Building Equipment	29	0	0	0	0	29
443			City Planning and Building	51	0	2	0	0	53
444			Architectural History and Design	11	0	0	0	0	11
			Architecture total	131	0	4	0	0	135
451			Physical Metallurgy	39	0	5	0	0	44
452			Inorganic Materials and	47	0	5	0	0	52
453			Composed Materials and	11	0	3	0	0	14
454			Structural and Functional	42	0	1	0	0	43
455			Metallurgy and Material	50	1	4	0	0	55
456			Metal Productive Engineering	18	0	1	0	0	19
			Material Engineering total	207	1	19	0	0	227
461			Chemical Engineering in General	46	0	1	0	0	47
462			Reaction and Separation Engineering	22	0	0	0	0	22
463			Catalyst and Chemical Process	24	0	0	0	0	24
464			Bioengineering	40	0	4	0	0	44
465			Industrial Analytical Chemistry	17	0	1	0	0	18
			Process Engineering total	149	0	6	0	0	155
471			Industrial Physical Chemistry	33	0	0	0	0	33
472			Industrial Inorganic Chemistry	17	0	0	0	0	17
473			Industrial Organic Chemistry	17	0	0	0	0	17
474			Synthetic Chemistry	34	0	3	0	0	37
475			Polymer Synthesis	39	0	1	0	0	40
476			Polymer Structure and Property (inclu. Fiber)	37	0	0	0	0	37
			Industrial Chemistry total	177	0	4	0	0	181
481			Aeronautics	24	0	1	0	0	25
482			Ship Engineering	20	0	4	0	0	24
483			Marine Engineering	9	0	0	0	0	9
484			Resource Development	28	0	2	0	0	30
			Synthetic Engineering total	81	0	7	0	0	88
			ENGINEERING Total	1,959	2	197	9	0	2,167
501			Plant Breeding	21	0	0	0	0	21
502			Crop Science	17	0	1	0	0	18
503			Horticulture and Landscape Architecture	32	0	0	0	1	33
504			Plant Protection	30	0	0	0	0	30
505			Sericultural Science and Economic Entomology	8	0	0	0	0	8
			Agriculture total	108	0	1	0	1	110
511			Plant Fertilizer and Manure and Soil Science	20	0	0	0	0	20
512			Applied Microbiochemistry and Applied Biochemistry	63	0	4	0	0	67
513			Biological Productive Chemistry and Bioorganic Chemistry	33	0	0	0	0	33
514			Food Science and Nutritional Chemistry	43	0	0	0	0	43
			Agricultural Chemistry total	159	0	4	0	0	163
521			Forestry	44	0	0	0	0	44
522			Wood Science	48	0	0	0	0	48
			Forestry total	92	0	0	0	0	92
531			Fisheries in General	60	0	0	0	0	60
532			Fisheries Chemistry	22	0	0	0	0	22
			Fisheries total	82	0	0	0	0	82

Table 28. Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Institution Type (National Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Total
541	C U L T U R E A		Agricultural Economics	19	0	0	0	0	19
551			Irrigation, Drainage and Reclamation Engineering and	41	0	0	0	0	41
552			Agricultural Machinery	17	0	0	0	0	17
553			Biological Environment	10	0	0	0	0	10
			Agricultural Engineering total	68	0	0	0	0	68
561			Animal Science and Grassland Science	19	0	0	0	0	19
562			Applied Animal Science	28	0	0	0	0	28
563			Basic Veterinary Medicine and Basic Animal Science	24	0	0	0	0	24
564			Applied Veterinary Medicine	27	0	0	0	0	27
			Animal Science·Veterinary Medicine total	98	0	0	0	0	98
571			Biological Resource Science	13	0	0	0	0	13
572			Applied Molecular Cell Biology	13	0	0	0	0	13
			Interdisciplinary Agricultural Science total	26	0	0	0	0	26
			AGRICULTURE Total	652	0	5	0	1	658
601	M E D I C I N E		Anatomy in General (inclu. Histology, Embryology)	36	0	0	0	0	36
602			Physiology in General	40	0	0	0	0	40
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	17	0	0	0	0	17
604			Pharmacology in General	35	0	0	0	0	35
605			Medical Chemistry in General	27	0	0	0	0	27
606			Pathological Medical Chemistry	18	0	0	0	0	18
			Physiology total	173	0	0	0	0	173
611			Hominal Pathology	37	0	0	0	0	37
612			Experimental Pathology	25	0	0	0	0	25
613			Parasitology (inclu. Medical)	21	0	0	0	0	21
614			Bacteriology (inclu. Eumycetes)	24	1	0	0	0	25
615			Virology	32	0	0	0	0	32
616			Immunology	42	0	0	0	0	42
			Pathology total	181	1	0	0	0	182
621			Hygiene	22	0	0	0	0	22
622			Public Health and Health Science	63	2	0	0	0	65
623			Legal Medicine	15	0	0	0	0	15
			Social Medicine total	100	2	0	0	0	102
631			Internal Medicine in General	45	1	0	0	0	46
632			Gastroenterology	54	0	0	0	0	54
633			Internal Medicine Respiratory System	23	0	0	0	0	23
634			Neurological Medicine	43	0	0	0	0	43
635			Cardioangiology	71	0	0	0	0	71
636			Pediatrics	55	0	0	0	0	55
637			Dermatology	31	0	0	0	0	31
638			Radiology	71	0	0	0	0	71
639			Neuropsychiatry	31	0	0	0	0	31
641			Hematology	43	0	0	0	0	43
642			Internal Medicine of Kidney	32	0	0	0	0	32
643			Embryology and Newborn	3	0	0	0	0	3
644			Endocrinology	21	0	0	0	0	21
645			Metabolic Science	27	0	0	0	0	27
			Internal Medicine total	550	1	0	0	0	551
651			Surgery in General	35	0	0	0	0	35
652			Gastroenterological Surgery	37	0	0	0	0	37
653			Thoracic Surgery	24	0	0	0	0	24
654			Neurosurgery	39	0	0	0	0	39
655			Orthopedic Surgery	78	0	0	0	0	78
656			Anesthesiology and Rescue Medicine	50	0	0	0	0	50
657			Urology	47	0	0	0	0	47
658			Obstetrics and Gynecology	38	0	0	0	0	38
659			Oto-rhino-laryngology	25	0	0	0	0	25
660			Ophthalmology	31	0	0	0	0	31
661			Pediatric Surgery	13	0	0	0	0	13

Table 28. Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Institution Type (National Institutions)

Code	Subj ect	Subd ivisi on	I t e m	Universities	Junior Colleges	Colleges of Technology	Inter- University Research Institutes	Government Research Institutes	Total
662	M		Formative Surgery	6	0	0	0	0	6
			Surgery total	423	0	0	0	0	423
671	E		Oral Anatomy and Morphological Basic Dentistry	30	0	0	0	0	30
672	D		Functional Basic Dentistry	20	0	0	0	0	20
673	I		Morbid Dentistry (inclu. Dental Radiology)	20	0	0	0	0	20
674	C		Conservative Dentistry	34	0	0	0	0	34
675			Prosthodontics and Dental Technology	63	0	0	0	0	63
676	I		Oral Surgery	58	0	0	0	0	58
677	N		Orthodontics, Pedodontics and Social Dentistry	63	0	0	0	0	63
678			Periodontological Dentistry	19	0	0	0	0	19
	E		Dentistry total	307	0	0	0	0	307
681			Chemical Pharmaceutics	32	0	0	0	0	32
682			Physical Pharmaceutics	12	0	0	0	0	12
683			Biopharmaceutics	29	0	0	0	0	29
684			Molecular Pharmaceutics	16	0	0	0	0	16
685			Environmental Pharmaceutics	6	0	0	0	0	6
			Pharmaceutics total	95	0	0	0	0	95
691			Medical Sociology	22	1	0	0	0	23
692			Human Genetics	14	0	0	0	0	14
693			Applied Pharmacology and Medical Pharmacology	16	0	0	0	0	16
694			Pathological Examination	20	0	0	0	0	20
696			Science of Basic and Local Nursing	28	0	1	0	0	29
697			Science of Clinical Nursing	41	0	0	0	0	41
			Medicine in General total	141	1	1	0	0	143
			MEDICINE Total	1,970	5	1	0	0	1,976
702	I N T E R D I S C I P L I N A R Y		History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	7	0	0	0	2	9
703			Physical Education	92	1	4	0	0	97
704			Human Geography	16	0	0	0	0	16
705			Physical Geography	20	0	0	0	0	20
			Geography total	36	0	0	0	0	36
706			Home Science(inclu. Cloth/Living Environments)	22	0	0	0	0	22
707			Food Culture	7	0	0	0	0	7
			Domestic Science total	29	0	0	0	0	29
708			Science of Cultural Property	3	1	0	0	1	5
711			Science Education	24	0	1	0	0	25
712			Educational Engineering	24	0	6	6	0	36
713			Curriculum Studies	59	1	3	0	0	63
714			Japanese Language Education	19	0	0	0	0	19
			Science Education·Curriculum Education total	126	1	10	6	0	143
721	A R E A		Statistics	14	0	0	0	0	14
731			Computer Science	102	0	10	0	0	112
732			Intelligent Informatics	132	0	14	0	0	146
733			Study of Information System (Inclu. Library and Information)	55	1	2	2	0	60
			Information Science total	289	1	26	2	0	318
741			Social System Engineering	56	0	1	0	1	58
751			Natural Disaster Science	10	0	0	0	0	10
761			Plasma Science and Technology	48	0	1	0	0	49
772	I N T E R D I S C I P L I N A R Y		Nuclear Fusion	14	0	1	0	0	15
773			Energy Science General	24	0	1	0	0	25
774			Nuclear Power Science	40	0	0	1	0	41
			Energy total	78	0	2	1	0	81
801	R E S E A R C H		Environmental Dynamic Analysis	27	0	1	0	0	28
802			Environmental Influence Assessment (inclu. Radiobiology)	30	0	0	0	0	30
803			Environmental Preservation	42	0	3	0	0	45
			Environmental Science total	99	0	4	0	0	103
811	I N T E R D I S C I P L I N A R Y		Biological Organic Chemistry	27	0	1	0	0	28
812			Structured Biochemistry	26	0	0	1	0	27

Table 28. Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Institution Type (National Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Total
813	L I N E A R Y A R E A		Functional Biochemistry	24	0	0	0	0	24
			Biological Chemistry total	77	0	1	1	0	79
821			Biophysics	33	0	1	0	0	34
822			Molecular Biology	82	0	0	0	0	82
823			Cell Biology	46	0	0	0	0	46
824			Developmental Biology	24	0	0	0	0	24
			Basic Biology total	185	0	1	0	0	186
831			Neuroanatomy and	21	0	0	0	0	21
832			Neurochemistry and Neuropharmacology	25	0	0	0	0	25
833			Neuro Science in General	47	0	0	0	0	47
834			Neuro and Muscular Physiology	23	0	0	0	0	23
			Neuro Science (inclu. Brain Science) total	116	0	0	0	0	116
841			Laboratory Animal Science	10	0	0	0	0	10
851			Medical Organism Engineering and Material Science of Organism	70	0	3	0	0	73
	INTERDISCIPLINARY AREA Total			1,345	4	53	10	4	1,416
999	WIDE AREA Total			102	5	0	1	0	108
	Item n.a. Total			4,834	4	198	45	17	5,098
	Grand Total			12,942	23	508	108	37	13,618

Table 29. Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Total
211	ARTS • HUMANITIES		Philosophy	1	0	1	2
212			Chinese Philosophy	1	1	0	2
213			Indian Philosophy (inclu. Buddhist Studies)	1	1	0	2
214			Religion	1	0	1	2
215			Ethics	5	0	0	5
216			History of Philosophy	0	0	0	0
217			Aesthetics (inclu. Arts)	14	1	0	15
218			Art History	3	1	0	4
			Philosophy total	26	4	2	32
221			Experimental Psychology	8	2	0	10
222			Educational and Social	4	1	0	5
223			Sociology	17	1	0	18
224			Education	5	0	0	5
225			Cultural Anthropology (inclu. Ethnology and Folklore)	4	0	0	4
			Psychology • Sociology • Education Cultural Anthropology total	38	4	0	42
231			Japanese History	3	0	0	3
232			Oriental History	3	0	0	3
233			European History	4	0	0	4
234			Archaeology (inclu. Prehistory)	0	0	0	0
			History total	10	0	0	10
241			Japanese Language	0	0	0	0
242			Japanese Literature	1	0	0	1
243			Chinese Language and Literature	3	0	0	3
244			English Language and Literature	9	0	0	9
245			French Language and Literature	3	0	0	3
246			German Language and Literature	4	0	0	4
247			Other Foreign Languages and Literatures	3	1	0	4
248			Linguistics and Phonetics	14	2	0	16
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	0	1	0	1
			Literature total	37	4	0	41
			ARTS • HUMANITIES Total	111	12	2	125
261	LAW		Basic Science of Law	1	0	0	1
262			Public Law	1	0	0	1
263			International Law	4	0	0	4
264			Civil Law	1	0	0	1
265			Social Law	0	0	0	0
266			Criminal Law	0	0	0	0
267			Politics	9	0	0	9
			LAW Total	16	0	0	16
271	ECONOMICS		General Theory of Economics	10	0	0	10
272			Economical Statistics	3	0	0	3
273			Economic Policy (inclu. Economic Condition)	7	1	0	8
274			Economic History	2	0	0	2
275			Public Finance, Money and Banking	1	1	0	2
276			Commercial Science	1	0	0	1
277			Business Administration	7	0	0	7
278			Accounting	3	1	0	4
			ECONOMICS Total	34	3	0	37
301	SCIENCE		Algebra	11	0	0	11
302			Geometry	2	0	0	2
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	6	0	0	6
305			Basic Analysis	6	0	0	6
306			Larger-area Analysis	2	0	0	2
			Mathematics total	27	0	0	27
311			Astronomy	0	0	0	0
321			Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	6	1	0	7

Table 29. Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subj ect	Subd ivisi on	I t e m	Universities	Junior Colleges	Colleges of Technology	Total
322	S C I E N C E		Solid-State Physics I (Optical Properties, Semiconductor and Dielectrics)	5	0	0	5
323			Solid-State Physics II (Magnetism, Metal Physics,	5	0	0	5
324			Physical Properties in General (inclu. Basic Theories)	4	0	0	4
325			Physics in General	2	0	0	2
			Physics total	22	1	0	23
331			Physics of Solid Earth	2	0	0	2
332			Meteorology, Oceanography and Hydrology	3	0	0	3
333			Aeronomy	0	0	0	0
334			Geology	2	0	0	2
335			Stratigraphy and Paleontology	0	0	0	0
336			Mineralogy, Petrology and Study of Mineral Deposit	2	0	0	2
337			Geochemistry	0	0	0	0
			Earth Science total	9	0	0	9
341			Physical Chemistry	14	0	0	14
342			Organic Chemistry	8	0	0	8
343			Inorganic Chemistry	4	1	0	5
344			Function, Properties and Materials in Chemistry	5	0	0	5
345			Substance Transformation	1	0	0	1
346			Separation, Refining and Identification	2	0	0	2
			Chemistry total	34	1	0	35
351			Genetics	5	0	0	5
352			Ecology	4	0	0	4
353			Plant Physiology	10	0	0	10
354			Morphology, Structure of Organism	2	0	0	2
355			Animal Physiology and	3	0	0	3
356			Morphology and Taxonomy	2	0	0	2
			Biology total	26	0	0	26
361			Physical Anthropology (inclu. Physiological Anthropology)	3	0	0	3
			SCIENCE Total	121	2	0	123
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	10	0	0	10
402			Surface Physics	2	0	0	2
403			Applied Optics and Quantum Optics	7	0	0	7
404			General Applied Physics	1	0	0	1
405			Fundamentals of Engineering	0	0	1	1
			Applied Physics-Fundamentals of Engineering total	20	0	1	21
411			Materials for Machines and Strength of Materials	9	0	0	9
412			Workshop Processes and Production Engineering	5	1	0	6
413			Design Engineering, Machine Elements and Tribology	1	0	0	1
414			Fluid Mechanics	7	0	0	7
415			Heat Engineering	5	0	1	6
416			Mechanics and Control Engineering	2	0	2	4
417			Intelligent Mechanics and Machine System	5	0	0	5
			Machine Engineering total	34	1	3	38
421	G		Electric Power Engineering and Electric Machinery	5	0	2	7
422			Electronic and Electric Materials Engineering	4	0	0	4
423			Electron Devices and Apparatus Engineering	6	0	1	7
424			Information and Communication Engineering	20	1	1	22

Table 29. Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subj ect	Subd ivisi on	I t e m	Universities	Junior Colleges	Colleges of Technology	Total
425	E N G I N E E R I N G		System Engineering	0	0	0	0
427			Electronic Measurements	1	0	0	1
428			Control Engineering	10	0	1	11
			Electric and Electronic Engineering	46	1	5	52
431			Construction Materials and Dynamics in General Civil Engineering	0	0	0	0
432			Structural Engineering and Seismology	4	0	0	4
433			Ground Engineering	4	0	0	4
434			Hydraulics and River Engineering	1	0	2	3
435			Traffic Engineering and Regional Planning	2	0	0	2
436			Civil Environmental System	4	0	0	4
			Civil Engineering total	15	0	2	17
441		N	Building Structure and Materials	7	0	0	7
442			Building Science and Building Equipment	6	1	0	7
443			City Planning and Building Planning	7	0	0	7
444		I	Architectural History and Design	0	0	0	0
			Architecture total	20	1	0	21
451		N	Physical Metallurgy	3	0	0	3
452			Inorganic Materials and	2	0	0	2
453			Composed Materials and Properties	2	0	0	2
454		E	Structural and Functional Materials	2	0	1	3
455		R	Metallurgy and Material	3	0	1	4
456			Metal Productive Engineering	0	0	0	0
			Material Engineering total	12	0	2	14
461		I	Chemical Engineering in General	3	0	0	3
462			Reaction and Separation Engineering	4	0	0	4
463			Catalyst and Chemical Process	2	0	0	2
464			Bioengineering	5	0	0	5
465			Industrial Analytical Chemistry	3	0	0	3
			Process Engineering total	17	0	0	17
471			Industrial Physical Chemistry	5	0	0	5
472			Industrial Inorganic Chemistry	1	0	0	1
473			Industrial Organic Chemistry	1	0	0	1
474			Synthetic Chemistry	1	0	0	1
475			Polymer Synthesis	2	0	0	2
476			Polymer Structure and Property (inclu. Fiber)	3	0	0	3
			Industrial Chemistry total	13	0	0	13
481			Aeronautics	0	0	0	0
482			Ship Engineering	4	0	1	5
483			Marine Engineering	1	0	0	1
484			Resource Development Engineering	0	0	0	0
			Synthetic Engineering total	5	0	1	6
			ENGINEERING Total	182	3	14	199
501	A G R I C U L T U R E		Plant Breeding	4	1	0	5
502			Crop Science	1	0	0	1
503			Horticulture and Landscape Architecture	13	1	0	14
504			Plant Protection	0	0	0	0
505			Sericultural Science and Economic Entomology	0	0	0	0
			Agriculture total	18	2	0	20
511			Plant Fertilizer and Manure and Soil Science	3	0	0	3
512			Applied Microbiochemistry and Applied Biochemistry	9	0	0	9
513			Biological Productive Chemistry and Bioorganic Chemistry	4	0	0	4
514			Food Science and Nutritional Chemistry	12	1	0	13

Table 29. Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Total
	A		Agricultural Chemistry total	28	1	0	29
521			Forestry	3	0	0	3
522	G		Wood Science	3	0	0	3
			Forestry total	6	0	0	6
531	R		Fisheries in General	2	0	0	2
532			Fisheries Chemistry	0	0	0	0
			Fisheries total	2	0	0	2
541	I		Agricultural Economics	2	0	0	2
551	C		Irrigation, Drainage and Reclamation Engineering and Rural Planning	1	1	0	2
552	U		Agricultural Machinery	0	0	0	0
553	L		Biological Environment	1	0	0	1
			Agricultural Engineering total	2	1	0	3
561	T		Animal Science and Grassland Science	0	1	0	1
562	U		Applied Animal Science	0	0	0	0
563	R		Basic Veterinary Medicine and Basic Animal Science	2	0	0	2
564			Applied Veterinary Medicine	5	0	0	5
	E		Animal Science·Veterinary Medicine total	7	1	0	8
571			Biological Resource Science	2	0	0	2
572			Applied Molecular Cell Biology	2	0	0	2
			Interdisciplinary Agricultural Science total	4	0	0	4
			AGRICULTURE Total	69	5	0	74
601			Anatomy in General (inclu. Histology, Embryology)	7	0	0	7
602			Physiology in General	9	0	0	9
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	6	0	0	6
604			Pharmacology in General	4	0	0	4
605			Medical Chemistry in General	4	0	0	4
606			Pathological Medical Chemistry	1	0	0	1
	M		Physiology total	31	0	0	31
611			Hominal Pathology	5	0	0	5
612	E		Experimental Pathology	2	0	0	2
613	D		Parasitology (inclu. Medical Zoology)	4	0	0	4
614			Bacteriology (inclu. Eumycetes)	6	0	0	6
615	I		Virology	3	0	0	3
616			Immunology	1	1	0	2
			Pathology total	21	1	0	22
621	C		Hygiene	7	1	0	8
622	I		Public Health and Health Science	15	0	0	15
623			Legal Medicine	4	0	0	4
			Social Medicine total	26	1	0	27
631	N		Internal Medicine in General	15	0	0	15
632	E		Gastroenterology	16	0	0	16
633			Internal Medicine Respiratory System	4	0	0	4
634			Neurological Medicine	6	0	0	6
635			Cardioangiopathy	15	1	0	16
636			Pediatrics	10	0	0	10
637			Dermatology	8	0	0	8
638			Radiology	3	0	0	3
639			Neuropsychiatry	5	1	0	6
641			Hematology	5	1	0	6
642			Internal Medicine of Kidney	3	0	0	3
643			Embryology and Newborn	3	0	0	3
644			Endocrinology	4	0	0	4
645			Metabolic Science	5	0	0	5
			Internal Medicine total	102	3	0	105
651			Surgery in General	7	0	0	7
652			Gastroenterological Surgery	9	0	0	9
653			Thoracic Surgery	4	0	0	4

Table 29. Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Total
654	M		Neurosurgery	6	0	0	6
655			Orthopedic Surgery	16	1	0	17
656			Anesthesiology and Rescue Medicine	15	0	0	15
657			Urology	9	0	0	9
658			Obstetrics and Gynecology	7	0	0	7
659			Oto-rhino-laryngology	6	0	0	6
660			Ophthalmology	2	0	0	2
661			Pediatric Surgery	1	0	0	1
662			Formative Surgery	2	0	0	2
			Surgery total	84	1	0	85
671	E		Oral Anatomy and Morphological Basic Dentistry	3	0	0	3
672	D		Functional Basic Dentistry	1	0	0	1
673	I		Morbid Dentistry (inclu. Dental Radiology)	3	0	0	3
674	C		Conservative Dentistry	2	1	0	3
675			Prosthodontics and Dental Technology	2	0	0	2
676	I		Oral Surgery	9	0	0	9
677	N		Orthodontics, Pedodontics and Social Dentistry	1	0	0	1
678			Periodontological Dentistry	1	0	0	1
	E		Dentistry total	22	1	0	23
681			Chemical Pharmaceutics	7	0	0	7
682			Physical Pharmaceutics	1	0	0	1
683			Biopharmaceutics	7	0	0	7
684			Molecular Pharmaceutics	1	0	0	1
685			Environmental Pharmaceutics	1	0	0	1
		Pharmaceutics total	17	0	0	17	
691			Medical Sociology	7	1	0	8
692			Human Genetics	0	0	0	0
693			Applied Pharmacology and Medical Pharmacology	0	0	0	0
694			Pathological Examination	0	2	0	2
696			Science of Basic and Local Nursing	20	1	0	21
697			Science of Clinical Nursing	26	2	0	28
			Medicine in General total	53	6	0	59
	MEDICINE Total			356	13	0	369
702	I N T E R D I S C I P L I N A R Y		History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	2	0	0	2
703			Physical Education	17	2	0	19
704			Human Geography	2	0	0	2
705			Physical Geography	3	0	0	3
			Geography total	5	0	0	5
706			Home Science(inclu. Cloth/Living Environments)	1	4	0	5
707			Food Culture	6	2	0	8
		Domestic Science total	7	6	0	13	
708		Science of Cultural Property	0	0	0	0	
711			Science Education	0	0	1	1
712			Educational Engineering	4	0	0	4
713			Curriculum Studies	4	2	0	6
714			Japanese Language Education	2	0	0	2
	A R E A	Science Education·Curriculum Education total	10	2	1	13	
721		Statistics	3	0	0	3	
731			Computer Science	16	0	0	16
732			Intelligent Informatics	15	0	0	15
733		I	Study of Information System (Inclu. Library and Information Science)	8	1	0	9
	Information Science total		39	1	0	40	
741	Social System Engineering		6	2	0	8	
751	Natural Disaster Science		1	0	0	1	
761	Plasma Science and Technology		3	0	0	3	
772			Nuclear Fusion	0	0	0	0

Table 29. Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Institution Type (Municipal Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Total
773	N T E R D I S C I P L I N A R Y A R E A		Energy Science General	1	0	0	1
774			Nuclear Power Science	1	0	0	1
			Energy total	2	0	0	2
801			Environmental Dynamic Analysis	3	0	0	3
802			Environmental Influence Assessment (inclu. Radiobiology)	6	2	0	8
803			Environmental Preservation	6	0	0	6
			Environmental Science total	15	2	0	17
811			Biological Organic Chemistry	5	0	0	5
812			Structured Biochemistry	0	0	0	0
813			Functional Biochemistry	4	0	0	4
			Biological Chemistry total	9	0	0	9
821			Biophysics	7	0	0	7
822			Molecular Biology	6	1	0	7
823			Cell Biology	7	0	0	7
824			Developmental Biology	5	0	0	5
			Basic Biology total	25	1	0	26
831			Neuroanatomy and Neuropathology	2	0	0	2
832			Neurochemistry and Neuropharmacology	4	0	0	4
833			Neuro Science in General	10	0	0	10
834			Neuro and Muscular Physiology	4	0	0	4
			Neuro Science (inclu. Brain Science) total	20	0	0	20
841			Laboratory Animal Science	2	0	0	2
851			Medical Organism Engineering and Material Science of Organism	4	0	1	5
			INTERDISCIPLINARY AREA Total	170	16	2	188
999			WIDE AREA Total	15	2	0	17
			Item n.a. Total	517	24	6	547
			Grand Total	1,591	80	24	1,695

Table 30. Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Institution Type (Private Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total
211	ARTS • HUMANITIES		Philosophy	38	4	0	0	42
212			Chinese Philosophy	9	1	0	0	10
213			Indian Philosophy (inclu. Buddhist Studies)	36	3	0	1	40
214			Religion	45	3	0	0	48
215			Ethics	6	0	0	0	6
216			History of Philosophy	23	1	0	0	24
217			Aesthetics (inclu. Arts)	73	17	0	1	91
218			Art History	12	0	0	0	12
			Philosophy total	242	29	0	2	273
221			Experimental Psychology	39	3	0	1	43
222			Educational and Social	120	13	0	0	133
223			Sociology	130	13	0	0	143
224			Education	80	19	0	0	99
225			Cultural Anthropology (inclu. Ethnology and Folklore)	43	2	0	0	45
			Psychology • Sociology • Education Cultural Anthropology total	412	50	0	1	463
231			Japanese History	23	1	0	0	24
232			Oriental History	43	3	0	0	46
233			European History	34	1	0	1	36
234			Archaeology (inclu. Prehistory)	23	0	0	2	25
			History total	123	5	0	3	131
241			Japanese Language	17	1	0	0	18
242			Japanese Literature	50	4	0	0	54
243			Chinese Language and Literature	53	1	0	0	54
244			English Language and Literature	141	22	0	0	163
245			French Language and Literature	35	2	0	0	37
246			German Language and Literature	22	0	0	0	22
247			Other Foreign Languages and Literatures	53	7	0	0	60
248			Linguistics and Phonetics	116	10	0	0	126
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	24	2	0	0	26
			Literature total	511	49	0	0	560
			ARTS • HUMANITIES Total	1,288	133	0	6	1,427
261	LAW		Basic Science of Law	18	2	0	0	20
262			Public Law	14	1	0	0	15
263			International Law	29	1	0	0	30
264			Civil Law	31	0	0	1	32
265			Social Law	8	1	0	0	9
266			Criminal Law	10	0	0	0	10
267			Politics	74	1	0	0	75
			LAW Total	184	6	0	1	191
271	ECONOMICS		General Theory of Economics	55	3	0	0	58
272			Economical Statistics	17	0	0	0	17
273			Economic Policy (inclu. Economic Condition)	85	1	0	2	88
274			Economic History	26	0	0	0	26
275			Public Finance, Money and Banking	29	0	0	0	29
276			Commercial Science	27	1	0	0	28
277			Business Administration	106	9	0	0	115
278			Accounting	32	3	0	0	35
			ECONOMICS Total	377	17	0	2	396
301	SCIENCE		Algebra	30	1	0	0	31
302			Geometry	13	0	0	0	13
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	41	1	0	0	42
305			Basic Analysis	28	0	0	0	28
306			Larger-area Analysis	13	0	0	0	13
			Mathematics total	125	2	0	0	127
311			Astronomy	12	1	0	0	13
321			Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	46	2	0	0	48

Table 30. Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Institution Type (Private Institutions)

Code	Subj ect	Subd ivisi on	I t e m	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total
322	S C I E N C E		Solid-State Physics I (Optical Properties, Semiconductor and Dielectrics)	33	0	0	0	33
323			Solid-State Physics II (Magnetism, Metal Physics,	26	1	0	1	28
324			Physical Properties in General (inclu. Basic Theories)	21	2	0	0	23
325			Physics in General	17	2	0	0	19
			Physics total	143	7	0	1	151
331			Physics of Solid Earth	6	1	0	0	7
332			Meteorology, Oceanography and Hydrology	12	0	0	0	12
333			Aeronomy	7	0	0	0	7
334			Geology	7	0	0	0	7
335			Stratigraphy and Paleontology	1	0	0	0	1
336			Mineralogy, Petrology and Study of Mineral Deposit	4	0	0	0	4
337			Geochemistry	7	0	0	0	7
			Earth Science total	44	1	0	0	45
341			Physical Chemistry	33	3	0	0	36
342			Organic Chemistry	15	1	0	2	18
343			Inorganic Chemistry	17	0	0	0	17
344			Function, Properties and Materials in Chemistry	19	1	0	0	20
345			Substance Transformation	5	0	0	0	5
346			Separation, Refining and Identification	15	0	0	0	15
			Chemistry total	104	5	0	2	111
351			Genetics	4	0	0	1	5
352			Ecology	14	0	0	3	17
353			Plant Physiology	8	0	0	1	9
354			Morphology, Structure of Organism	8	1	0	1	10
355			Animal Physiology and	6	0	0	1	7
356			Morphology and Taxonomy	7	0	0	2	9
			Biology total	47	1	0	9	57
361			Physical Anthropology (inclu. Physiological Anthropology)	8	0	0	0	8
			SCIENCE Total	483	17	0	12	512
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	16	0	0	0	16
402			Surface Physics	12	0	0	0	12
403			Applied Optics and Quantum Optics	23	0	0	0	23
404			General Applied Physics	10	2	0	2	14
405			Fundamentals of Engineering	10	0	0	0	10
			Applied Physics-Fundamentals of Engineering total	71	2	0	2	75
411			Materials for Machines and Strength of Materials	46	0	0	0	46
412			Workshop Processes and Production Engineering	27	0	0	0	27
413			Design Engineering, Machine Elements and Tribology	20	1	0	1	22
414			Fluid Mechanics	38	0	0	0	38
415			Heat Engineering	26	2	0	0	28
416			Mechanics and Control Engineering	21	0	0	0	21
417			Intelligent Mechanics and Machine System	27	0	0	0	27
			Machine Engineering total	205	3	0	1	209
421			Electric Power Engineering and Electric Machinery	54	0	0	0	54
422			Electronic and Electric Materials Engineering	49	2	0	0	51
423			Electron Devices and Apparatus Engineering	46	0	0	0	46
424			Information and Communication Engineering	83	2	2	0	87

Table 30. Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Institution Type (Private Institutions)

Code	Subj ect	Subd ivisi on	I t e m	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total
425	E N G I N E E R I N G		System Engineering	24	0	0	0	24
427			Electronic Measurements	44	1	0	0	45
428			Control Engineering	26	0	0	0	26
			Electric and Electronic Engineering	326	5	2	0	333
431			Construction Materials and Dynamics in General Civil Engineering	14	0	0	0	14
432			Structural Engineering and Seismology	24	3	0	0	27
433			Ground Engineering	18	0	0	1	19
434			Hydraulics and River Engineering	25	0	0	0	25
435			Traffic Engineering and Regional Planning	22	0	0	0	22
436			Civil Environmental System	14	0	0	0	14
			Civil Engineering total	117	3	0	1	121
441		N	Building Structure and Materials	32	0	0	0	32
442			Building Science and Building Equipment	23	0	0	1	24
443			City Planning and Building Planning	43	5	0	0	48
444		I	Architectural History and Design	9	1	0	0	10
			Architecture total	107	6	0	1	114
451		N	Physical Metallurgy	10	0	0	0	10
452			Inorganic Materials and	22	1	0	0	23
453			Composed Materials and Properties	7	1	0	0	8
454		E	Structural and Functional Materials	10	1	0	0	11
455		R	Metallurgy and Material	17	2	0	0	19
456			Metal Productive Engineering	4	0	0	0	4
			Material Engineering total	70	5	0	0	75
461		I N D U S T R I A L	Chemical Engineering in General	12	0	0	0	12
462			Reaction and Separation Engineering	4	0	0	0	4
463			Catalyst and Chemical Process	5	0	0	0	5
464			Bioengineering	10	0	0	1	11
465			Industrial Analytical Chemistry	6	0	0	0	6
			Process Engineering total	37	0	0	1	38
471			Industrial Physical Chemistry	6	0	0	0	6
472			Industrial Inorganic Chemistry	5	0	0	0	5
473			Industrial Organic Chemistry	3	0	0	0	3
474			Synthetic Chemistry	11	0	0	0	11
475			Polymer Synthesis	8	0	0	0	8
476			Polymer Structure and Property (inclu. Fiber)	12	4	0	0	16
			Industrial Chemistry total	45	4	0	0	49
481			Aeronautics	5	0	0	0	5
482			Ship Engineering	3	0	0	0	3
483			Marine Engineering	3	0	0	0	3
484			Resource Development Engineering	5	0	0	0	5
			Synthetic Engineering total	16	0	0	0	16
			ENGINEERING Total	994	28	2	6	1,030
501	A G R I C U L T U R E		Plant Breeding	4	0	0	0	4
502			Crop Science	3	0	0	1	4
503			Horticulture and Landscape Architecture	8	3	0	0	11
504			Plant Protection	8	1	0	0	9
505			Sericultural Science and Economic Entomology	1	0	0	0	1
			Agriculture total	24	4	0	1	29
511			Plant Fertilizer and Manure and Soil Science	4	0	0	0	4
512			Applied Microbiochemistry and Applied Biochemistry	34	0	0	0	34
513			Biological Productive Chemistry and Bioorganic Chemistry	8	0	0	1	9
514			Food Science and Nutritional Chemistry	23	11	0	0	34

Table 30. Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Institution Type (Private Institutions)

Code	Subj ect	Subd ivisi on	I t e m	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total
	A		Agricultural Chemistry total	69	11	0	1	81
521			Forestry	5	0	0	0	5
522	G		Wood Science	1	0	0	0	1
			Forestry total	6	0	0	0	6
531	R		Fisheries in General	22	0	0	1	23
532			Fisheries Chemistry	5	0	0	0	5
			Fisheries total	27	0	0	1	28
541	I		Agricultural Economics	14	0	0	0	14
551	C		Irrigation, Drainage and Reclamation Engineering and Rural Planning	6	0	0	0	6
552	U		Agricultural Machinery	3	1	0	0	4
553	L		Biological Environment	1	0	0	0	1
			Agricultural Engineering total	10	1	0	0	11
561	T		Animal Science and Grassland Science	5	0	0	0	5
562	U		Applied Animal Science	8	0	0	0	8
563	R		Basic Veterinary Medicine and Basic Animal Science	11	0	0	1	12
564			Applied Veterinary Medicine	17	0	0	1	18
	E		Animal Science·Veterinary Medicine total	41	0	0	2	43
571			Biological Resource Science	4	0	0	0	4
572			Applied Molecular Cell Biology	3	1	0	0	4
			Interdisciplinary Agricultural Science total	7	1	0	0	8
			AGRICULTURE Total	198	17	0	5	220
601			Anatomy in General (inclu. Histology, Embryology)	29	1	0	0	30
602			Physiology in General	29	2	0	0	31
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	21	4	0	0	25
604			Pharmacology in General	34	0	0	0	34
605			Medical Chemistry in General	19	0	0	0	19
606			Pathological Medical Chemistry	15	1	0	0	16
	M		Physiology total	147	8	0	0	155
611			Hominal Pathology	35	1	0	0	36
612	E		Experimental Pathology	13	0	0	1	14
613	D		Parasitology (inclu. Medical Zoology)	9	2	0	0	11
614			Bacteriology (inclu. Eumycetes)	28	1	0	0	29
615	I		Virology	7	0	0	2	9
616			Immunology	24	0	0	2	26
	C		Pathology total	116	4	0	5	125
621			Hygiene	35	0	0	1	36
622	I		Public Health and Health Science	52	6	0	1	59
623			Legal Medicine	19	0	0	0	19
	N		Social Medicine total	106	6	0	2	114
631	E		Internal Medicine in General	42	1	0	1	44
632			Gastroenterology	49	0	0	2	51
633			Internal Medicine Respiratory System	24	0	0	2	26
634			Neurological Medicine	29	0	0	0	29
635			Cardioangiolog	62	2	0	1	65
636			Pediatrics	40	0	0	0	40
637			Dermatology	18	0	0	0	18
638			Radiology	52	3	0	1	56
639			Neuropsychiatry	37	1	0	0	38
641			Hematology	34	0	0	0	34
642			Internal Medicine of Kidney	26	1	0	0	27
643			Embryology and Newborn	1	0	0	0	1
644			Endocrinology	9	0	0	0	9
645			Metabolic Science	17	0	0	0	17
			Internal Medicine total	440	8	0	7	455
651			Surgery in General	48	0	0	1	49
652			Gastroenterological Surgery	45	0	0	2	47
653			Thoracic Surgery	28	0	0	0	28

Table 30. Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Institution Type (Private Institutions)

Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total
654	M		Neurosurgery	34	0	0	0	34
655			Orthopedic Surgery	56	3	0	0	59
656			Anesthesiology and Rescue Medicine	30	0	0	0	30
657			Urology	32	0	0	1	33
658			Obstetrics and Gynecology	34	0	0	0	34
659			Oto-rhino-laryngology	29	0	0	0	29
660			Ophthalmology	18	0	0	0	18
661			Pediatric Surgery	6	0	0	0	6
662			Formative Surgery	19	0	0	0	19
			Surgery total	379	3	0	4	386
671	E		Oral Anatomy and Morphological Basic Dentistry	30	1	0	0	31
672	D		Functional Basic Dentistry	27	0	0	0	27
673	I		Morbid Dentistry (inclu. Dental Radiology)	32	0	0	0	32
674	C		Conservative Dentistry	47	2	0	0	49
675			Prosthodontics and Dental Technology	83	2	0	0	85
676	I		Oral Surgery	56	0	0	1	57
677	N		Orthodontics, Pedodontics and Social Dentistry	64	1	0	0	65
678			Periodontological Dentistry	19	0	0	0	19
	E		Dentistry total	358	6	0	1	365
681			Chemical Pharmaceuticals	61	0	0	0	61
682			Physical Pharmaceuticals	32	1	0	0	33
683			Biopharmaceutics	69	1	0	1	71
684			Molecular Pharmaceuticals	23	0	0	0	23
685			Environmental Pharmaceuticals	16	0	0	0	16
			Pharmaceutics total	201	2	0	1	204
691			Medical Sociology	24	0	0	0	24
692			Human Genetics	22	0	0	1	23
693			Applied Pharmacology and Medical Pharmacology	24	0	0	0	24
694			Pathological Examination	12	1	0	0	13
696			Science of Basic and Local Nursing	15	2	0	0	17
697			Science of Clinical Nursing	16	2	0	0	18
			Medicine in General total	113	5	0	1	119
	MEDICINE Total		1,860	42	0	21	1,923	
702	I N T E R D I S C I P L I N A R Y		History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	11	0	0	0	11
703			Physical Education	83	11	0	0	94
704			Human Geography	20	0	0	0	20
705			Physical Geography	9	0	0	0	9
			Geography total	29	0	0	0	29
706			Home Science(inclu. Cloth/Living Environments)	31	17	0	0	48
707			Food Culture	16	13	0	0	29
			Domestic Science total	47	30	0	0	77
708			Science of Cultural Property	2	0	0	0	2
711			Science Education	13	2	0	0	15
712	A R E A		Educational Engineering	25	2	0	0	27
713			Curriculum Studies	29	10	0	0	39
714			Japanese Language Education	22	1	0	0	23
			Science Education·Curriculum Education total	89	15	0	0	104
721	Statistics	17	0	0	0	17		
731	I		Computer Science	57	0	1	0	58
732			Intelligent Informatics	74	5	1	0	80
733			Study of Information System (Inclu. Library and Information Science)	61	4	0	1	66
			Information Science total	192	9	2	1	204
741			Social System Engineering	59	0	0	0	59
751			Natural Disaster Science	3	1	0	0	4
761			Plasma Science and Technology	10	0	0	0	10
772			Nuclear Fusion	5	1	0	0	6

Table 30. Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Institution Type (Private Institutions)

Code	Subj ect	Subd ivisi on	I t e m	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total
773	N T E R D I S C I P L I N A R Y A R E A		Energy Science General	7	0	0	0	7
774			Nuclear Power Science	5	0	0	0	5
			Energy total	17	1	0	0	18
801			Environmental Dynamic Analysis	18	0	0	0	18
802			Environmental Influence Assessment (inclu. Radiobiology)	9	0	0	1	10
803			Environmental Preservation	30	0	0	2	32
			Environmental Science total	57	0	0	3	60
811			Biological Organic Chemistry	9	0	0	2	11
812			Structured Biochemistry	11	0	0	1	12
813			Functional Biochemistry	28	1	0	0	29
			Biological Chemistry total	48	1	0	3	52
821			Biophysics	13	0	0	0	13
822			Molecular Biology	27	0	0	1	28
823			Cell Biology	19	0	0	2	21
824			Developmental Biology	6	0	0	2	8
			Basic Biology total	65	0	0	5	70
831			Neuroanatomy and Neuropathology	9	0	0	0	9
832			Neurochemistry and Neuropharmacology	21	0	0	1	22
833			Neuro Science in General	27	1	0	0	28
834			Neuro and Muscular Physiology	25	2	0	0	27
		Neuro Science (inclu. Brain Science) total	82	3	0	1	86	
841			Laboratory Animal Science	2	0	0	2	4
851		Medical Organism Engineering and Material Science of Organism	57	3	0	1	61	
	INTERDISCIPLINARY AREA Total			870	74	2	16	962
999	WIDE AREA Total			114	12	0	0	126
	Item n.a. Total			2,902	149	7	44	3,102
	Grand Total			9,270	495	11	113	9,889