

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	Private Scientific Research Institutes		
211	ARTS · HUMANITIES		Philosophy	173	10	3	0	0	0		
212			Chinese Philosophy	44	2	0	0	0	0		
213			Indian Philosophy (inclu. Buddhist Studies)	112	13	3	2	0	4		
214			Religion	116	13	1	0	0	0		
215			Ethics	57	1	0	0	0	0		
216			History of Philosophy	69	6	0	0	0	0		
217			Aesthetics (inclu. Arts)	94	6	0	1	0	0		
218			Art History	47	5	0	0	1	0		
			Philosophy total		712	56	7	3	1	4	
221					Experimental Psychology	335	17	1	1	3	2
222					Educational and Social	563	47	0	8	5	1
223					Sociology (inclu. Social Welfare)	352	25	0	2	1	1
224					Education	360	37	0	1	8	0
225					Cultural Anthropology (inclu. Ethnology and Folklore)	208	15	0	15	0	0
			Psychology · Sociology · Education Cultural Anthropology total		1,818	141	1	27	17	4	
231					Japanese History	310	23	3	11	1	3
232					Oriental History	163	2	0	0	0	2
233					European History	156	4	1	0	0	0
234					Archaeology (inclu. Prehistory)	58	2	0	3	2	1
					History total		687	31	4	14	3
241					Japanese Language	79	5	0	0	0	0
242					Japanese Literature	215	28	5	7	1	0
243					Chinese Language and Literature	75	0	0	0	0	0
244					English Language and Literature	282	21	2	0	0	0
245					French Language and Literature	158	5	0	0	0	0
246	German Language and Literature	79			1	0	0	0	0		
247	Other Foreign Languages and Literatures	55			3	0	0	0	0		
248	Linguistics and Phonetics	284			17	3	2	0	1		
249	Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	73			4	0	0	0	0		
	Literature total				1,300	84	10	9	1	1	
	ARTS · HUMANITIES Total		4,517	312	22	53	22	15			
261	LAW		Basic Science of Law	89	2	0	0	0	0		
262			Public Law	126	4	1	0	0	0		
263			International Law	59	0	1	0	0	1		
264			Civil Law	182	1	0	0	0	4		
265			Social Law	42	3	0	0	0	1		
266			Criminal Law	67	2	0	0	0	0		
267			Politics	321	3	0	1	0	0		
	LAW Total		886	15	2	1	0	6			
271	ECONOMICS		General Theory of Economics	450	16	0	0	0	0		
272			Economical Statistics	93	0	0	0	0	0		
273			Economic Policy (inclu. Economic Condition)	412	9	0	0	0	0		
274			Economic History	205	4	0	0	0	0		
275			Public Finance, Money and Banking	193	9	0	1	0	0		
276			Commercial Science	105	4	0	0	0	0		
277			Business Administration	343	22	0	1	0	0		
278			Accounting	188	4	0	0	0	0		
	ECONOMICS Total		1,989	68	0	2	0	0			
301	SCIENCE		Algebra	455	7	20	0	0	0		
302			Geometry	409	7	22	0	0	0		
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	469	10	14	6	0	1		
305			Basic Analysis	332	6	14	0	0	0		
306			Larger-area Analysis	119	1	4	0	0	0		
			Mathematics total		1,784	31	74	6	0	1	
311			Astronomy	171	9	3	62	1	0		
321			Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	852	49	27	105	1	0		

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

Total
186
46
134
130
58
75
101
53
783
359
624
381
406
238
2,008
351
167
161
66
745
84
256
75
305
163
80
58
307
77
1,405
4,941
91
131
61
187
46
69
325
910
466
93
421
209
203
109
366
192
2,059
482
438
500
352
124
1,896
246
1,034

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	Private Scientific Research Institutes
322	S C I E N C E		Solid State Physics I (Optical Properties, Semiconductor and Dielectrics)	524	6	23	11	0	1
323			Solid State Physics II (Magnetism, Metal Physics,	608	7	16	11	0	0
324			Physical Properties in General (inclu. Basic Theories)	392	13	22	18	0	1
325			Physics in General	291	10	12	18	0	2
			Physics total	2,667	85	100	163	1	4
331			Physics of Solid Earth	282	4	0	12	1	1
332			Meteorology, Oceanography and Hydrology	260	2	6	10	0	0
333			Aeronomy	83	2	2	13	0	0
334			Geology	177	3	0	0	3	3
335			Stratigraphy and Paleontology	107	2	0	2	9	2
336	Mineralogy, Petrology and Study of Mineral Deposit	239	0	0	3	3	0		
337	Geochemistry	154	2	2	4	1	0		
	Earth Science total	1,302	15	10	44	17	6		
341	C H E M I S T R Y		Physical Chemistry	709	15	18	46	2	1
342			Organic Chemistry	621	8	21	7	0	18
343			Inorganic Chemistry	293	6	8	12	1	0
344			Function, Properties and Materials in Chemistry	285	8	11	8	1	0
345			Substance Transformation	29	0	3	0	0	0
346			Separation, Refining and Identification	213	7	10	2	0	0
	Chemistry total	2,150	44	71	75	4	19		
351	B I O L O G Y		Genetics	174	7	0	21	0	3
352			Ecology	382	27	1	6	1	5
353			Plant Physiology	300	15	1	13	0	1
354			Morphology, Structure of Organism	128	8	0	7	1	1
355			Animal Physiology and	189	5	0	4	0	2
356			Morphology and Taxonomy	215	6	0	4	26	7
	Biology total	1,388	68	2	55	28	19		
361			Physical Anthropology (inclu. Physiological Anthropology)	88	4	0	0	4	0
	SCIENCE Total			9,550	256	260	405	55	49
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	266	4	13	2	0	2
402			Surface Physics	170	1	12	1	0	0
403			Applied Optics and Quantum Optics	293	4	22	5	0	0
404			General Applied Physics	104	4	12	2	0	3
405			Fundamentals of Engineering	82	3	9	0	0	0
	Applied Physics·Fundamentals of Engineering total	915	16	68	10	0	5		
411	G I N E E R I N G		Materials for Machines and Strength of Materials	530	11	77	1	0	0
412			Workshop Processes and Production Engineering	364	6	44	1	1	0
413			Design Engineering, Machine Elements and Tribology	225	3	25	2	0	0
414			Fluid Mechanics	461	9	48	1	0	0
415			Heat Engineering	475	7	58	5	0	0
416			Mechanics and Control Engineering	388	6	49	3	0	0
417			Intelligent Mechanics and Machine System	311	7	17	0	0	0
			Machine Engineering total	2,754	49	318	13	1	0
421	E L E C T R I C E N G I N E E R I N G		Electric Power Engineering and Electric Machinery	416	8	59	7	0	0
422			Electronic and Electric Materials Engineering	455	10	45	3	0	3
423			Electron Devices and Apparatus Engineering	445	9	47	3	0	1
424			Information and Communication Engineering	913	28	71	17	0	1
425			System Engineering	240	12	10	3	0	1

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Total
565
642
446
333
3,020
300
278
100
186
122
245
163
1,394
791
675
320
313
32
232
2,363
205
422
330
145
200
258
1,560
96
10,575
287
184
324
125
94
1,014
619
416
255
519
545
446
335
3,135
490
516
505
1,030
266

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	Private Scientific Research Institutes		
427	E N G I N E E R I N G		Electronic Measurements	179	4	31	1	0	0		
428			Control Engineering	210	3	24	1	0	0		
			Electric and Electronic Engineering	2,858	74	287	35	0	6		
431			Construction Materials and Dynamics in General Civil Engineering	163	2	25	0	0	0		
432			Structural Engineering and Seismology	244	7	28	0	0	1		
433			Ground Engineering	238	3	23	0	0	0		
434			Hydraulics and River Engineering	259	2	22	0	0	2		
435			Traffic Engineering and Regional Planning	193	4	12	0	0	0		
436			Civil Environmental System	159	1	16	0	0	1		
			Civil Engineering total	1,256	19	126	0	0	4		
441			A R C H I T E C T U R E		Building Structure and Materials	427	7	18	0	1	1
442					Building Science and Building Equipment	220	14	5	0	0	2
443					City Planning and Building Planning	412	20	17	0	0	0
444					Architectural History and Design	156	16	9	1	4	0
			Architecture total	1,215	57	49	1	5	3		
451			M A T E R I A L E N G I N E E R I N G		Physical Metallurgy	217	0	13	0	0	2
452					Inorganic Materials and Composed Materials and Properties	327	2	16	0	0	1
453					Structural and Functional Materials	96	1	14	0	0	0
454					Metallurgy and Material	201	5	15	1	0	4
455					Metal Productive Engineering	243	8	24	1	0	2
456					Material Engineering total	1,216	19	89	2	0	9
461			C H E M I C A L E N G I N E E R I N G		Chemical Engineering in General Reaction and Separation Engineering	244	1	15	0	0	0
462					Catalyst and Chemical Process	169	0	18	0	0	1
463	Bioengineering	126			0	5	0	0	1		
464	Industrial Analytical Chemistry	211			0	12	0	0	0		
465	Process Engineering total	114			0	9	1	0	0		
	Process Engineering total	864	1	59	1	0	2				
471	I N D U S T R I A L C H E M I S T R Y		Industrial Physical Chemistry	239	4	8	0	0	2		
472			Industrial Inorganic Chemistry	102	0	6	1	0	0		
473			Industrial Organic Chemistry	135	5	10	0	0	0		
474			Synthetic Chemistry	287	0	17	0	0	4		
475			Polymer Synthesis	233	2	15	0	0	0		
476			Polymer Structure and Property (inclu. Fiber)	274	28	9	1	0	0		
			Industrial Chemistry total	1,270	39	65	2	0	6		
481	S Y N T H E T I C E N G I N E E R I N G		Aeronautics	129	0	1	29	0	0		
482			Ship Engineering	82	1	2	0	0	0		
483			Marine Engineering	40	0	0	0	0	0		
484			Resource Development Engineering	101	0	3	0	0	0		
			Synthetic Engineering total	352	1	6	29	0	0		
	ENGINEERING Total	12,700	275	1,067	93	6	35				
501	A G R I C U L T U R E		Plant Breeding	140	8	1	0	2	4		
502			Crop Science	105	6	0	0	0	0		
503			Horticulture and Landscape Architecture	241	26	0	0	1	0		
504			Plant Protection	204	8	0	0	0	0		
505			Sericultural Science and Economic Entomology	51	3	0	0	0	6		
			Agriculture total	741	51	1	0	3	10		
511			Plant Fertilizer and Manure and Soil Science	154	11	0	0	1	0		
512			Applied Microbiochemistry and Applied Biochemistry	527	45	9	2	0	18		
513			Biological Productive Chemistry and Bioorganic Chemistry	163	8	1	0	0	4		
514			Food Science and Nutritional Chemistry	415	179	4	0	0	1		
	Agricultural Chemistry total	1,259	243	14	2	1	23				

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Total
215
238
3,260
190
280
264
285
209
177
1,405
454
241
449
186
1,330
232
346
111
226
278
142
1,335
260
188
132
223
124
927
253
109
150
308
250
312
1,382
159
85
40
104
388
14,176
155
111
268
212
60
806
166
601
176
599
1,542

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Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Private Scientific Research Institutes	
521	A		Forestry	250	5	0	0	0	0	
522			Wood Science	188	1	0	0	0	1	
			Forestry total	438	6	0	0	0	1	
531	G		Fisheries in General	333	9	1	0	0	0	
532			Fisheries Chemistry	138	9	0	0	0	2	
			Fisheries total	471	18	1	0	0	2	
541	R		Agricultural Economics	275	10	0	0	0	0	
551	I		Irrigation, Drainage and Reclamation Engineering and Rural Planning	190	14	0	0	0	3	
552	C		Agricultural Machinery	117	9	1	0	0	0	
553			Biological Environment	69	0	0	0	0	0	
	U		Agricultural Engineering total	376	23	1	0	0	3	
561	L		Animal Science and Grassland Science	161	8	0	0	0	0	
562			Applied Animal Science	130	6	0	0	0	0	
563	T		Basic Veterinary Medicine and Basic Animal Science	269	1	0	0	1	12	
564	U		Applied Veterinary Medicine	198	2	0	0	0	10	
	R		Animal Science-Veterinary Medicine total	758	17	0	0	1	22	
571	E		Biological Resource Science	52	5	0	1	0	2	
572			Applied Molecular Cell Biology	49	2	0	0	0	0	
			Interdisciplinary Agricultural Science total	101	7	0	1	0	2	
	AGRICULTURE Total			4,419	375	17	3	5	63	
601			Anatomy in General (inclu. Histology, Embryology)	418	34	0	1	0	3	
602			Physiology in General	382	33	0	8	1	1	
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	218	36	1	0	0	0	
604			Pharmacology in General	342	12	0	1	0	2	
605			Medical Chemistry in General	370	21	1	2	0	6	
606			Pathological Medical Chemistry	135	6	0	0	0	3	
			Physiology total	1,865	142	2	12	1	15	
611	M		Hominal Pathology	476	19	0	0	0	7	
612			Experimental Pathology	250	12	0	0	0	9	
613			Parasitology (inclu. Medical Zoology)	179	10	0	0	0	1	
614			Bacteriology (inclu. Eumycetes)	257	30	1	0	0	6	
615		E		Virology	221	3	0	0	0	10
616				Immunology	387	13	0	0	0	8
	D		Pathology total	1,770	87	1	0	0	41	
621	I		Hygiene	231	16	0	0	0	9	
622			Public Health and Health	525	87	1	1	1	5	
623			Legal Medicine	212	1	0	0	0	0	
	C		Social Medicine total	968	104	1	1	1	14	
631	I		Internal Medicine in General	429	18	0	0	0	3	
632			Gastroenterology	611	2	0	0	0	3	
633		N		Internal Medicine Respiratory System	335	6	0	0	0	2
634	E		Neurological Medicine	367	9	0	3	0	1	
635			Cardioangiology	709	12	0	0	0	9	
636			Pediatrics	571	19	0	0	1	3	
637			Dermatology	334	2	0	0	0	2	
638			Radiology	568	32	0	1	0	2	
639			Neuropsychiatry	519	17	0	0	1	1	
641			Hematology	407	6	0	0	0	2	
642			Internal Medicine of Kidney	222	2	0	0	0	1	
643			Embryology and Newborn	32	0	0	0	0	0	
644			Endocrinology	182	3	0	0	0	0	
645			Metabolic Science	170	5	0	0	0	0	
				Internal Medicine total	5,456	133	0	4	2	29
651			Surgery in General	465	7	0	0	0	1	
652			Gastroenterological Surgery	598	7	0	0	0	4	
653			Thoracic Surgery	375	3	0	0	0	4	
654			Neurosurgery	445	1	0	0	0	1	

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Total
255
190
445
343
149
492
285
207
127
69
403
169
136
283
210
798
60
51
111
4,882
456
425
255
357
400
144
2,037
502
271
190
294
234
408
1,899
256
620
213
1,089
450
616
343
380
730
594
338
603
538
415
225
32
185
175
5,624
473
609
382
447

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Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Private Scientific Research Institutes		
655	M E D I C I N E		Orthopedic Surgery	594	18	0	0	0	2		
656			Anesthesiology and Rescue Medicine	493	2	0	0	0	1		
657			Urology	389	1	0	0	0	2		
658			Obstetrics and Gynecology	505	9	0	0	0	0		
659			Oto-rhino-laryngology	404	6	0	0	0	2		
660			Ophthalmology	360	0	0	0	0	0		
661			Pediatric Surgery	94	3	0	0	0	0		
662			Formative Surgery	60	0	0	0	0	0		
			Surgery total	4,782	57	0	0	0	17		
671			D E N T I S T R Y		Oral Anatomy and Morphological Basic Dentistry	384	5	0	0	0	0
672					Functional Basic Dentistry	310	5	0	0	0	0
673					Morbid Dentistry (inclu. Dental Radiology)	214	5	0	0	0	0
674					Conservative Dentistry	467	12	0	0	0	0
675					Prosthodontics and Dental Technology	646	6	0	0	0	0
676	Oral Surgery	649			6	0	0	0	0		
677	Orthodontics, Pedodontics and Social Dentistry	537			9	0	0	0	0		
678	Periodontological Dentistry	76			0	0	0	0	0		
	Dentistry total	3,283	48	0	0	0	0				
681	P H A R M A C E U T I C S		Chemical Pharmaceuticals	647	5	1	0	0	9		
682			Physical Pharmaceuticals	236	1	1	0	0	0		
683			Biopharmaceutics	752	3	4	0	0	11		
684			Molecular Pharmaceuticals	70	0	1	0	0	1		
685			Environmental Pharmaceuticals	21	3	0	0	0	0		
	Pharmaceutics total	1,726	12	7	0	0	21				
691	M E D I C I N E		Medical Sociology	75	5	0	0	0	1		
692			Human Genetics	59	1	0	0	0	1		
693			Applied Pharmacology and Medical Pharmacology	167	3	1	0	0	1		
694			Pathological Examination	143	38	0	0	0	0		
696			Science of Basic and Local Nursing	73	18	1	0	0	0		
697			Science of Clinical Nursing	84	16	0	0	0	0		
	Medicine in General total	601	81	2	0	0	3				
	MEDICINE Total	20,451	664	13	17	4	140				
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	5	1	1	0	0		
703			Physical Education	270	19	1	0	0	0		
704			Human Geography	192	3	0	0	1	1		
705			Physical Geography	125	1	1	2	0	0		
			Geography total	317	4	1	2	1	1		
706			Home Science(inclu. Cloth/Living Environments)	137	47	0	0	0	0		
707			Food Culture	77	62	0	0	0	0		
			Domestic Science total	214	109	0	0	0	0		
708			Science of Cultural Property	6	0	0	3	4	0		
711			Science Education	58	7	5	0	2	0		
712			Educational Engineering	69	5	1	3	0	0		
713			Curriculum Studies	97	4	1	0	0	0		
714			Japanese Language Education	21	0	0	0	0	0		
			Science Education· Curriculum Education total	245	16	7	3	2	0		
721	Statistics	128	3	0	21	0	1				
731	C O M P U T E R S C I E N C E		Computer Science	732	14	22	5	0	0		
732			Intelligent Informatics	533	8	17	7	0	0		
733	I N F O R M A T I O N S C I E N C E		Study of Information System (Inclu. Library and Information Science)	219	14	8	11	0	0		
			Information Science total	1,484	36	47	23	0	0		
741	S O C I A L S C I E N C E		Social System Engineering	199	5	0	0	0	0		
751			Natural Disaster Science	34	0	4	0	0	1		
761			Plasma Science and Technology	244	3	17	37	0	0		
772			Nuclear Fusion	95	1	2	23	0	0		
773			Energy Science General	45	2	1	1	0	0		

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Total
614
496
392
514
412
360
97
60
4,856
389
315
219
479
652
655
546
76
3,331
662
238
770
72
24
1,766
81
61
172
181
92
100
687
21,289
66
290
197
129
326
184
139
323
13
72
78
102
21
273
153
773
565
252
1,590
204
39
301
121
49

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	Private Scientific Research Institutes
774	I N T E R D I S C I P L I N A R Y A R E A		Nuclear Power Science	121	1	3	3	0	0
			Energy total	261	4	6	27	0	0
801			Environmental Dynamic Analysis	145	4	2	0	0	0
802			Environmental Influence Assessment (inclu. Radiobiology)	143	11	2	1	0	3
803			Environmental Preservation	162	5	5	0	0	2
			Environmental Science total	450	20	9	1	0	5
811			Biological Organic Chemistry	195	6	5	1	0	10
812			Structured Biochemistry	241	5	1	1	0	6
813			Functional Biochemistry	311	24	4	1	0	2
			Biological Chemistry total	747	35	10	3	0	18
821			Biophysics	271	2	8	14	0	0
822			Molecular Biology	697	12	3	37	1	19
823			Cell Biology	394	8	0	12	1	10
824			Developmental Biology	248	3	2	19	0	1
			Basic Biology total	1,610	25	13	82	2	30
831		Neuroanatomy and Neuropathology	178	9	0	3	0	0	
832		Neurochemistry and Neuropharmacology	172	8	0	0	0	0	
833		Neuro Science in General	281	9	0	30	0	5	
834		Neuro and Muscular Physiology	197	15	0	15	0	0	
		Neuro Science (inclu. Brain Science) total	828	41	0	48	0	5	
841		Laboratory Animal Science	75	1	0	2	0	8	
851		Medical Organism Engineering and Material Science of Organism	283	15	12	0	0	0	
		INTERDISCIPLINARY AREA Total	7,454	341	128	253	9	69	
999		WIDE AREA Total	493	38	4	11	0	3	
		Item n.a. Total	394	40	13	3	1	2	
		Grand Total	62,853	2,384	1,526	841	102	382	

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

Total
128
298
151
160
174
485
217
254
342
813
295
769
425
273
1,762
190
180
325
227
922
86
310
8,254
549
453
68,088

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
211	ARTS · HUMANITIES		Philosophy	69	0	2	0	0	71
212			Chinese Philosophy	18	0	0	0	0	18
213			Indian Philosophy (inclu. Buddhist Studies)	19	0	3	2	0	24
214			Religion	15	1	0	0	0	16
215			Ethics	30	0	0	0	0	30
216			History of Philosophy	20	0	0	0	0	20
217			Aesthetics (inclu. Arts)	37	0	0	1	0	38
218			Art History	16	0	0	0	1	17
			Philosophy total	224	1	5	3	1	234
221			Experimental Psychology	174	2	1	1	3	181
222			Educational and Social	283	2	0	8	5	298
223			Sociology (inclu. Social Welfare)	83	0	0	2	1	86
224			Education	185	0	0	1	8	194
225			Cultural Anthropology (inclu. Ethnology and Folklore)	80	0	0	15	0	95
			Psychology · Sociology · Education Cultural Anthropology total	805	4	1	27	17	854
231			Japanese History	128	1	3	11	1	144
232			Oriental History	57	0	0	0	0	57
233			European History	61	0	1	0	0	62
234	Archaeology (inclu. Prehistory)	27	0	0	3	2	32		
	History total	273	1	4	14	3	295		
241	Japanese Language	31	1	0	0	0	32		
242	Japanese Literature	52	0	5	7	1	65		
243	Chinese Language and Literature	23	0	0	0	0	23		
244	English Language and Literature	71	1	2	0	0	74		
245	French Language and Literature	55	0	0	0	0	55		
246	German Language and Literature	26	0	0	0	0	26		
247	Other Foreign Languages and Literatures	20	0	0	0	0	20		
248	Linguistics and Phonetics	97	0	3	2	0	102		
249	Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	22	0	0	0	0	22		
	Literature total	397	2	10	9	1	419		
	ARTS · HUMANITIES Total	1,699	8	20	53	22	1,802		
261	LAW		Basic Science of Law	33	0	0	0	0	33
262			Public Law	55	0	1	0	0	56
263			International Law	14	0	1	0	0	15
264			Civil Law	54	1	0	0	0	55
265			Social Law	13	0	0	0	0	13
266			Criminal Law	18	0	0	0	0	18
267			Politics	99	0	0	1	0	100
	LAW Total	286	1	2	1	0	290		
271	ECONOMICS		General Theory of Economics	160	0	0	0	0	160
272			Economical Statistics	43	0	0	0	0	43
273			Economic Policy (inclu. Economic Condition)	115	0	0	0	0	115
274			Economic History	65	0	0	0	0	65
275			Public Finance, Money and Banking	55	1	0	1	0	57
276			Commercial Science	17	0	0	0	0	17
277			Business Administration	67	0	0	1	0	68
278			Accounting	45	1	0	0	0	46
	ECONOMICS Total	567	2	0	2	0	571		
301	SCIENCE		Algebra	271	0	20	0	0	291
302			Geometry	260	0	20	0	0	280
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	268	1	12	6	0	287
305			Basic Analysis	207	2	13	0	0	222
306			Larger-area Analysis	86	0	4	0	0	90
			Mathematics total	1,092	3	69	6	0	1,170
311	Astronomy	120	0	3	62	1	186		
321			Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	524	4	25	105	1	659

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)	354	1	19	11	0	385		
323			Solid State Physics II (Magnetism, Metal Physics,	428	0	16	11	0	455		
324			Physical Properties in General (inclu. Basic Theories)	238	1	19	18	0	276		
325			Physics in General	181	1	11	18	0	211		
Physics total				1,725	7	90	163	1	1,986		
331			Physics of Solid Earth	245	0	0	12	1	258		
332			Meteorology, Oceanography and Hydrology	205	0	6	10	0	221		
333			Aeronomy	66	0	2	13	0	81		
334			Geology	132	0	0	0	3	135		
335			Stratigraphy and Paleontology	88	0	0	2	9	99		
336	Mineralogy, Petrology and Study of Mineral Deposit	205	0	0	3	3	211				
337	Geochemistry	126	0	2	4	1	133				
Earth Science total				1,067	0	10	44	17	1,138		
341	C H E M I S T R Y		Physical Chemistry	479	1	17	46	2	545		
342			Organic Chemistry	407	0	19	7	0	433		
343			Inorganic Chemistry	196	1	8	12	1	218		
344			Function, Properties and Materials in Chemistry	196	0	11	8	1	216		
345			Substance Transformation	20	0	2	0	0	22		
346			Separation, Refining and Identification	133	1	9	2	0	145		
Chemistry total				1,431	3	66	75	4	1,579		
351	B I O L O G Y		Genetics	124	0	0	21	0	145		
352			Ecology	270	1	1	6	1	279		
353			Plant Physiology	196	0	1	13	0	210		
354			Morphology, Structure of Organism	87	1	0	7	1	96		
355			Animal Physiology and	121	0	0	4	0	125		
356			Morphology and Taxonomy	151	0	0	4	26	181		
Biology total				949	2	2	55	28	1,036		
361			Physical Anthropology (inclu. Physiological Anthropology)	51	0	0	0	4	55		
SCIENCE Total				6,435	15	240	405	55	7,150		
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	191	0	12	2	0	205		
402			Surface Physics	112	0	12	1	0	125		
403			Applied Optics and Quantum Optics	173	1	20	5	0	199		
404			General Applied Physics	69	1	11	2	0	83		
405			Fundamentals of Engineering	50	0	8	0	0	58		
Applied Physics-Fundamentals of Engineering total				595	2	63	10	0	670		
411	M A C H I N E E N G I N E E R I N G		Materials for Machines and Strength of Materials	289	0	70	1	0	360		
412			Workshop Processes and Production Engineering	197	0	37	1	1	236		
413			Design Engineering, Machine Elements and Tribology	142	0	21	2	0	165		
414			Fluid Mechanics	264	1	43	1	0	309		
415			Heat Engineering	270	1	51	5	0	327		
416			Mechanics and Control Engineering	223	0	46	3	0	272		
417			Intelligent Mechanics and Machine System	191	0	16	0	0	207		
Machine Engineering total				1,576	2	284	13	1	1,876		
421	E L E C T R I C E N G I N E E R I N G		Electric Power Engineering and Electric Machinery	199	1	55	7	0	262		
422			Electronic and Electric Materials Engineering	257	1	45	3	0	306		
423			Electron Devices and Apparatus Engineering	240	0	45	3	0	288		
424			Information and Communication Engineering	433	2	64	17	0	516		

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			System Engineering	118	2	10	3	0	133
427			Electronic Measurements	93	0	29	1	0	123
428			Control Engineering	132	0	21	1	0	154
			Electric and Electronic Engineering	1,472	6	269	35	0	1,782
431			Construction Materials and Dynamics in General Civil Engineering	82	0	25	0	0	107
432			Structural Engineering and Seismology	126	0	25	0	0	151
433			Ground Engineering	142	0	23	0	0	165
434			Hydraulics and River Engineering	171	0	18	0	0	189
435			Traffic Engineering and Regional Planning	107	0	11	0	0	118
436			Civil Environmental System	94	0	16	0	0	110
			Civil Engineering total	722	0	118	0	0	840
441			Building Structure and Materials	193	0	18	0	1	212
442	E		Building Science and Building Equipment	94	1	5	0	0	100
443	N		City Planning and Building Planning	160	3	17	0	0	180
444	G		Architectural History and Design	70	0	8	1	4	83
			Architecture total	517	4	48	1	5	575
451	I		Physical Metallurgy	177	0	13	0	0	190
452			Inorganic Materials and	227	0	16	0	0	243
453	N		Composed Materials and Properties	57	0	13	0	0	70
454	E		Structural and Functional Materials	144	1	13	1	0	159
455	E		Metallurgy and Material	164	1	23	1	0	189
456			Metal Productive Engineering	114	0	7	0	0	121
	R		Material Engineering total	883	2	85	2	0	972
461			Chemical Engineering in General	188	0	13	0	0	201
462	I		Reaction and Separation Engineering	123	0	18	0	0	141
463	N		Catalyst and Chemical Process	101	0	5	0	0	106
464			Bioengineering	159	0	12	0	0	171
465	G		Industrial Analytical Chemistry	83	0	9	1	0	93
			Process Engineering total	654	0	57	1	0	712
471			Industrial Physical Chemistry	173	2	7	0	0	182
472			Industrial Inorganic Chemistry	66	0	6	1	0	73
473			Industrial Organic Chemistry	82	1	8	0	0	91
474			Synthetic Chemistry	217	0	16	0	0	233
475			Polymer Synthesis	164	0	14	0	0	178
476			Polymer Structure and Property (inclu. Fiber)	200	0	7	1	0	208
			Industrial Chemistry total	902	3	58	2	0	965
481			Aeronautics	82	0	1	29	0	112
482			Ship Engineering	60	0	2	0	0	62
483			Marine Engineering	21	0	0	0	0	21
484			Resource Development Engineering	91	0	2	0	0	93
			Synthetic Engineering total	254	0	5	29	0	288
			ENGINEERING Total	7,575	19	987	93	6	8,680
501			Plant Breeding	104	0	1	0	2	107
502			Crop Science	84	0	0	0	0	84
503	A		Horticulture and Landscape Architecture	166	0	0	0	1	167
504	G		Plant Protection	159	0	0	0	0	159
505	R		Sericultural Science and Economic Entomology	39	0	0	0	0	39
			Agriculture total	552	0	1	0	3	556
511			Plant Fertilizer and Manure and Soil Science	115	0	0	0	1	116
512			Applied Microbiochemistry and Applied Biochemistry	339	0	9	2	0	350
513			Biological Productive Chemistry and Bioorganic Chemistry	124	0	1	0	0	125
514			Food Science and Nutritional Chemistry	194	0	4	0	0	198

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
			Agricultural Chemistry total	772	0	14	2	1	789
521			Forestry	221	0	0	0	0	221
522			Wood Science	168	1	0	0	0	169
	A		Forestry total	389	1	0	0	0	390
531			Fisheries in General	258	0	1	0	0	259
532	G		Fisheries Chemistry	111	0	0	0	0	111
			Fisheries total	369	0	1	0	0	370
541	R		Agricultural Economics	168	0	0	0	0	168
551	I		Irrigation, Drainage and Reclamation Engineering and Rural Planning	160	0	0	0	0	160
552	C		Agricultural Machinery	104	0	1	0	0	105
553			Biological Environment	53	0	0	0	0	53
	U		Agricultural Engineering total	317	0	1	0	0	318
561	L		Animal Science and Grassland Science	118	0	0	0	0	118
562			Applied Animal Science	90	0	0	0	0	90
563	T		Basic Veterinary Medicine and Basic Animal Science	157	0	0	0	1	158
564	U		Applied Veterinary Medicine	108	0	0	0	0	108
	R		Animal Science-Veterinary Medicine total	473	0	0	0	1	474
571	E		Biological Resource Science	41	0	0	1	0	42
572			Applied Molecular Cell Biology	34	0	0	0	0	34
			Interdisciplinary Agricultural Science total	75	0	0	1	0	76
			AGRICULTURE Total	3,115	1	17	3	5	3,141
601			Anatomy in General (inclu. Histology, Embryology)	207	10	0	1	0	218
602			Physiology in General	190	5	0	8	1	204
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	94	4	1	0	0	99
604			Pharmacology in General	149	1	0	1	0	151
605			Medical Chemistry in General	226	1	1	2	0	230
606			Pathological Medical Chemistry	80	0	0	0	0	80
			Physiology total	946	21	2	12	1	982
611			Hominal Pathology	207	9	0	0	0	216
612			Experimental Pathology	148	1	0	0	0	149
613	M		Parasitology (inclu. Medical Zoology)	96	1	0	0	0	97
614			Bacteriology (inclu. Eumycetes)	120	8	1	0	0	129
615	E		Virology	157	0	0	0	0	157
616			Immunology	225	4	0	0	0	229
	D		Pathology total	953	23	1	0	0	977
621			Hygiene	99	1	0	0	0	100
622	I		Public Health and Health	231	9	1	1	1	243
623			Legal Medicine	110	0	0	0	0	110
	C		Social Medicine total	440	10	1	1	1	453
631			Internal Medicine in General	179	5	0	0	0	184
632	I		Gastroenterology	270	2	0	0	0	272
633	N		Internal Medicine Respiratory System	161	6	0	0	0	167
634			Neurological Medicine	174	2	0	3	0	179
635	E		Cardioangiology	300	6	0	0	0	306
636			Pediatrics	286	6	0	0	1	293
637			Dermatology	164	0	0	0	0	164
638			Radiology	303	17	0	1	0	321
639			Neuropsychiatry	249	5	0	0	1	255
641			Hematology	206	4	0	0	0	210
642			Internal Medicine of Kidney	97	1	0	0	0	98
643			Embryology and Newborn	8	0	0	0	0	8
644			Endocrinology	100	1	0	0	0	101
645			Metabolic Science	94	2	0	0	0	96
			Internal Medicine total	2,591	57	0	4	2	2,654
651			Surgery in General	176	3	0	0	0	179
652			Gastroenterological Surgery	251	3	0	0	0	254
653			Thoracic Surgery	173	1	0	0	0	174

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 E D I C I N E		Neurosurgery	227	0	0	0	0	227
655			Orthopedic Surgery	280	6	0	0	0	286
656			Anesthesiology and Rescue Medicine	262	2	0	0	0	264
657			Urology	194	0	0	0	0	194
658			Obstetrics and Gynecology	239	5	0	0	0	244
659			Oto-rhino-laryngology	193	0	0	0	0	193
660			Ophthalmology	173	0	0	0	0	173
661			Pediatric Surgery	49	1	0	0	0	50
662			Formative Surgery	18	0	0	0	0	18
			Surgery total	2,235	21	0	0	0	2,256
671	D E N T I S T R Y		Oral Anatomy and Morphological Basic Dentistry	126	0	0	0	0	126
672			Functional Basic Dentistry	103	0	0	0	0	103
673			Morbid Dentistry (inclu. Dental Radiology)	78	1	0	0	0	79
674			Conservative Dentistry	183	0	0	0	0	183
675			Prosthodontics and Dental Technology	233	0	0	0	0	233
676			Oral Surgery	291	0	0	0	0	291
677			Orthodontics, Pedodontics and Social Dentistry	250	0	0	0	0	250
678			Periodontological Dentistry	37	0	0	0	0	37
	Dentistry total	1,301	1	0	0	0	1,302		
681	P H A R M A C E U T I C S		Chemical Pharmaceutics	195	0	1	0	0	196
682			Physical Pharmaceutics	78	1	0	0	0	79
683			Biopharmaceutics	214	0	4	0	0	218
684			Molecular Pharmaceutics	30	0	1	0	0	31
685			Environmental Pharmaceutics	5	1	0	0	0	6
	Pharmaceutics total	522	2	6	0	0	530		
691	M E D I C I N E		Medical Sociology	32	3	0	0	0	35
692			Human Genetics	45	0	0	0	0	45
693			Applied Pharmacology and Medical Pharmacology	77	0	1	0	0	78
694			Pathological Examination	67	16	0	0	0	83
696			Science of Basic and Local Nursing	39	13	1	0	0	53
697			Science of Clinical Nursing	43	8	0	0	0	51
	Medicine in General total	303	40	2	0	0	345		
	MEDICINE Total	9,291	175	12	17	4	9,499		
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)	18	0	1	1	0	20
703			Physical Education	162	0	1	0	0	163
704			Human Geography	92	0	0	0	1	93
705			Physical Geography	76	0	1	2	0	79
			Geography total	168	0	1	2	1	172
706			Home Science (inclu. Cloth/Living Environments)	67	0	0	0	0	67
707			Food Culture	29	0	0	0	0	29
			Domestic Science total	96	0	0	0	0	96
708			Science of Cultural Property	4	0	0	3	4	11
711			Science Education	38	0	5	0	2	45
712			Educational Engineering	33	0	1	3	0	37
713			Curriculum Studies	80	0	1	0	0	81
714			Japanese Language Education	14	0	0	0	0	14
			Science Education· Curriculum Education total	165	0	7	3	2	177
721	Statistics	69	0	0	21	0	90		
731	Computer Science	429	2	21	5	0	457		
732	Intelligent Informatics	332	3	17	7	0	359		
733	Study of Information System (Inclu. Library and Information Science)	95	0	6	11	0	112		
	Information Science total	856	5	44	23	0	928		
741	Social System Engineering	81	0	0	0	0	81		
751	Natural Disaster Science	26	0	3	0	0	29		
761	Plasma Science and Technology	179	0	15	37	0	231		
772	Nuclear Fusion	79	0	1	23	0	103		

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	INTERDISCIPLINARY AREA		Energy Science General	27	0	1	1	0	29
774			Nuclear Power Science	93	0	3	3	0	99
			Energy total	199	0	5	27	0	231
801			Environmental Dynamic Analysis	96	0	1	0	0	97
802			Environmental Influence Assessment (inclu. Radiobiology)	90	2	2	1	0	95
803			Environmental Preservation	92	0	5	0	0	97
			Environmental Science total	278	2	8	1	0	289
811			Biological Organic Chemistry	125	0	5	1	0	131
812			Structured Biochemistry	138	0	1	1	0	140
813			Functional Biochemistry	177	5	4	1	0	187
			Biological Chemistry total	440	5	10	3	0	458
821			Biophysics	169	0	7	14	0	190
822			Molecular Biology	475	2	3	37	1	518
823			Cell Biology	255	1	0	12	1	269
824			Developmental Biology	181	1	2	19	0	203
			Basic Biology total	1,080	4	12	82	2	1,180
831			Neuroanatomy and Neuropathology	100	3	0	3	0	106
832			Neurochemistry and Neuropharmacology	80	1	0	0	0	81
833			Neuro Science in General	161	0	0	30	0	191
834			Neuro and Muscular Physiology	114	6	0	15	0	135
		Neuro Science (inclu. Brain Science) total	455	10	0	48	0	513	
841		Laboratory Animal Science	45	0	0	2	0	47	
851		Medical Organism Engineering and Material Science of Organism	151	3	8	0	0	162	
		INTERDISCIPLINARY AREA Total	4,472	29	115	253	9	4,878	
999		WIDE AREA Total	191	5	4	11	0	211	
		Item n.a. Total	185	5	12	3	1	206	
		Grand Total	33,816	260	1,409	841	102	36,428	

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	Philosophy	12	1	1	14	
212			Chinese Philosophy	3	0	0	3	
213			Indian Philosophy (inclu. Buddhist Studies)	4	1	0	5	
214			Religion	1	0	1	2	
215			Ethics	2	1	0	3	
216			History of Philosophy	4	0	0	4	
217			Aesthetics (inclu. Arts)	6	0	0	6	
218			Art History	3	0	0	3	
			Philosophy total	35	3	2	40	
221		Psychology · Sociology · Education	Cultural Anthropology (inclu. Ethnology and Folklore)	Experimental Psychology	25	2	0	27
222				Educational and Social	16	3	0	19
223				Sociology (inclu. Social Welfare)	31	0	0	31
224				Education	14	3	0	17
225				Cultural Anthropology (inclu. Ethnology and Folklore)	9	0	0	9
		Psychology · Sociology · Education Cultural Anthropology total	95	8	0	103		
231		History	History total	Japanese History	19	2	0	21
232				Oriental History	11	0	0	11
233				European History	6	0	0	6
234	Archaeology (inclu. Prehistory)			0	0	0	0	
241	Literature	Literature total	Japanese Language	7	0	0	7	
242			Japanese Literature	17	1	0	18	
243			Chinese Language and Literature	1	0	0	1	
244			English Language and Literature	18	2	0	20	
245			French Language and Literature	13	0	0	13	
246			German Language and Literature	5	0	0	5	
247			Other Foreign Languages and Literatures	3	1	0	4	
248			Linguistics and Phonetics	15	0	0	15	
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	4	0	0	4	
			Literature total	83	4	0	87	
	ARTS · HUMANITIES Total	249	17	2	268			
261	LAW	LAW Total	Basic Science of Law	1	0	0	1	
262			Public Law	8	1	0	9	
263			International Law	2	0	0	2	
264			Civil Law	10	0	0	10	
265			Social Law	3	0	0	3	
266			Criminal Law	0	1	0	1	
267			Politics	32	0	0	32	
271	ECONOMICS	ECONOMICS Total	General Theory of Economics	40	3	0	43	
272			Economical Statistics	6	0	0	6	
273			Economic Policy (inclu. Economic Condition)	34	1	0	35	
274			Economic History	18	0	0	18	
275			Public Finance, Money and Banking	20	1	0	21	
276			Commercial Science	7	0	0	7	
277			Business Administration	21	2	0	23	
278			Accounting	13	0	0	13	
301	SCIENCE	Mathematics total	Algebra	28	2	0	30	
302			Geometry	24	1	2	27	
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	29	0	2	31	
305			Basic Analysis	15	1	1	17	
306			Larger-area Analysis	6	0	0	6	
311			Astronomy	8	0	0	8	
321			Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	36	9	2	47	

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)	30	1	2	33		
323			Solid State Physics II (Magnetism, Metal Physics,	41	0	0	41		
324			Physical Properties in General (inclu. Basic Theories)	19	0	3	22		
325			Physics in General	18	1	1	20		
Physics total			144	11	8	163			
331			Physics of Solid Earth	6	0	0	6		
332			Meteorology, Oceanography and Hydrology	10	0	0	10		
333			Aeronomy	0	0	0	0		
334			Geology	14	0	0	14		
335			Stratigraphy and Paleontology	4	0	0	4		
336	Mineralogy, Petrology and Study of Mineral Deposit	6	0	0	6				
337	Geochemistry	5	1	0	6				
Earth Science total			45	1	0	46			
341	C H E M I S T R Y		Physical Chemistry	52	3	1	56		
342			Organic Chemistry	35	1	2	38		
343			Inorganic Chemistry	16	0	0	16		
344			Function, Properties and Materials in Chemistry	13	0	0	13		
345			Substance Transformation	2	0	1	3		
346			Separation, Refining and Identification	14	2	1	17		
Chemistry total			132	6	5	143			
351	B I O L O G Y		Genetics	16	0	0	16		
352			Ecology	29	3	0	32		
353			Plant Physiology	46	2	0	48		
354			Morphology, Structure of Organism	9	0	0	9		
355			Animal Physiology and	17	2	0	19		
356			Morphology and Taxonomy	10	1	0	11		
Biology total			127	8	0	135			
361			Physical Anthropology (inclu. Physiological Anthropology)	4	0	0	4		
SCIENCE Total			562	30	18	610			
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	18	0	0	18		
402			Surface Physics	9	0	0	9		
403			Applied Optics and Quantum Optics	18	0	1	19		
404			General Applied Physics	5	0	1	6		
405			Fundamentals of Engineering	5	0	1	6		
Applied Physics·Fundamentals of Engineering total			55	0	3	58			
411	G I N E E R I N G		Materials for Machines and Strength of Materials	30	0	4	34		
412			Workshop Processes and Production Engineering	13	3	5	21		
413			Design Engineering, Machine Elements and Tribology	6	0	3	9		
414			Fluid Mechanics	23	1	5	29		
415			Heat Engineering	21	0	6	27		
416			Mechanics and Control Engineering	23	0	3	26		
417			Intelligent Mechanics and Machine System	19	0	1	20		
Machine Engineering total			135	4	27	166			
421			E L E C T R I C E N G I N E E R I N G		Electric Power Engineering and Electric Machinery	15	0	3	18
422					Electronic and Electric Materials Engineering	18	0	0	18
423	Electron Devices and Apparatus Engineering	18			0	2	20		
424	Information and Communication Engineering	69			1	6	76		

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			System Engineering	14	0	0	14
427			Electronic Measurements	1	0	2	3
428			Control Engineering	18	0	2	20
			Electric and Electronic Engineering	153	1	15	169
431			Construction Materials and Dynamics in General Civil Engineering	5	1	0	6
432			Structural Engineering and Seismology	8	0	3	11
433			Ground Engineering	10	0	0	10
434			Hydraulics and River Engineering	6	0	4	10
435			Traffic Engineering and Regional Planning	9	0	1	10
436			Civil Environmental System	8	1	0	9
			Civil Engineering total	46	2	8	56
441			Building Structure and Materials	24	0	0	24
442	E		Building Science and Building Equipment	14	4	0	18
443	N		City Planning and Building Planning	33	1	0	34
444	G		Architectural History and Design	12	2	1	15
			Architecture total	83	7	1	91
451	I		Physical Metallurgy	5	0	0	5
452			Inorganic Materials and	9	0	0	9
453	N		Composed Materials and Properties	7	0	1	8
454	E		Structural and Functional Materials	15	0	2	17
455	E		Metallurgy and Material	8	0	1	9
456			Metal Productive Engineering	1	0	0	1
	R		Material Engineering total	45	0	4	49
461			Chemical Engineering in General	14	0	2	16
462	I		Reaction and Separation Engineering	8	0	0	8
463	N		Catalyst and Chemical Process	3	0	0	3
464			Bioengineering	6	0	0	6
465	G		Industrial Analytical Chemistry	7	0	0	7
			Process Engineering total	38	0	2	40
471			Industrial Physical Chemistry	18	0	1	19
472			Industrial Inorganic Chemistry	5	0	0	5
473			Industrial Organic Chemistry	3	0	2	5
474			Synthetic Chemistry	17	0	1	18
475			Polymer Synthesis	13	0	1	14
476			Polymer Structure and Property (inclu. Fiber)	11	3	2	16
			Industrial Chemistry total	67	3	7	77
481			Aeronautics	9	0	0	9
482			Ship Engineering	6	0	0	6
483			Marine Engineering	3	0	0	3
484			Resource Development Engineering	1	0	1	2
			Synthetic Engineering total	19	0	1	20
			ENGINEERING Total	641	17	68	726
501			Plant Breeding	12	4	0	16
502			Crop Science	6	4	0	10
503	A		Horticulture and Landscape	26	5	0	31
504	G		Architecture	11	4	0	15
505	R		Sericultural Science and Economic Entomology	1	0	0	1
	I		Agriculture total	56	17	0	73
511	C		Plant Fertilizer and Manure and Soil Science	12	3	0	15
512	U		Applied Microbiochemistry and Applied Biochemistry	41	5	0	46
513	L		Biological Productive Chemistry and Bioorganic Chemistry	13	1	0	14
514	T		Food Science and Nutritional Chemistry	50	22	0	72

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
			Agricultural Chemistry total	116	31	0	147
521			Forestry	10	1	0	11
522			Wood Science	11	0	0	11
	A		Forestry total	21	1	0	22
531			Fisheries in General	4	0	0	4
532	G		Fisheries Chemistry	6	0	0	6
			Fisheries total	10	0	0	10
541	R		Agricultural Economics	18	6	0	24
551	I		Irrigation, Drainage and Reclamation Engineering and Rural Planning	6	11	0	17
552	C		Agricultural Machinery	1	5	0	6
553			Biological Environment	8	0	0	8
	U		Agricultural Engineering total	15	16	0	31
561	L		Animal Science and Grassland Science	5	7	0	12
562			Applied Animal Science	2	4	0	6
563	T		Basic Veterinary Medicine and Basic Animal Science	16	0	0	16
564	U		Applied Veterinary Medicine	14	1	0	15
	R		Animal Science-Veterinary Medicine total	37	12	0	49
571			Biological Resource Science	3	0	0	3
572	E		Applied Molecular Cell Biology	3	0	0	3
			Interdisciplinary Agricultural Science total	6	0	0	6
			AGRICULTURE Total	279	83	0	362
601			Anatomy in General (inclu. Histology, Embryology)	30	4	0	34
602			Physiology in General	29	6	0	35
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	24	6	0	30
604			Pharmacology in General	32	0	0	32
605			Medical Chemistry in General	37	2	0	39
606			Pathological Medical Chemistry	13	0	0	13
			Physiology total	165	18	0	183
611			Hominal Pathology	48	3	0	51
612			Experimental Pathology	38	2	0	40
613	M		Parasitology (inclu. Medical Zoology)	18	2	0	20
614			Bacteriology (inclu. Eumycetes)	23	7	0	30
615	E		Virology	13	1	0	14
616			Immunology	19	3	0	22
	D		Pathology total	159	18	0	177
621			Hygiene	19	4	0	23
622	I		Public Health and Health	67	17	0	84
623			Legal Medicine	21	0	0	21
	C		Social Medicine total	107	21	0	128
631			Internal Medicine in General	42	6	0	48
632	I		Gastroenterology	48	0	0	48
633	N		Internal Medicine Respiratory System	26	0	0	26
634			Neurological Medicine	27	2	0	29
635	E		Cardioangiology	63	1	0	64
636			Pediatrics	60	1	0	61
637			Dermatology	41	0	0	41
638			Radiology	36	4	0	40
639			Neuropsychiatry	39	1	0	40
641			Hematology	32	0	0	32
642			Internal Medicine of Kidney	20	1	0	21
643			Embryology and Newborn	6	0	0	6
644			Endocrinology	7	0	0	7
645			Metabolic Science	12	1	0	13
			Internal Medicine total	459	17	0	476
651			Surgery in General	36	3	0	39
652			Gastroenterological Surgery	57	1	0	58
653			Thoracic Surgery	31	1	0	32

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	
654	M	E	Neurosurgery	47	1	0	48	
655			Orthopedic Surgery	54	5	0	59	
656			Anesthesiology and Rescue Medicine	34	0	0	34	
657			Urology	35	0	0	35	
658			Obstetrics and Gynecology	50	3	0	53	
659			Oto-rhino-laryngology	45	4	0	49	
660			Ophthalmology	30	0	0	30	
661			Pediatric Surgery	9	0	0	9	
662			Formative Surgery	4	0	0	4	
			Surgery total		432	18	0	450
671	D	I	Oral Anatomy and Morphological Basic Dentistry	8	1	0	9	
672			Functional Basic Dentistry	9	2	0	11	
673			Morbid Dentistry (inclu. Dental Radiology)	8	0	0	8	
674			Conservative Dentistry	11	3	0	14	
675			Prosthodontics and Dental Technology	10	0	0	10	
676			Oral Surgery	26	0	0	26	
677			Orthodontics, Pedodontics and Social Dentistry	8	1	0	9	
678			Periodontological Dentistry	1	0	0	1	
	Dentistry total		81	7	0	88		
681	N	E	Chemical Pharmaceutics	38	0	0	38	
682			Physical Pharmaceutics	18	0	1	19	
683			Biopharmaceutics	47	0	0	47	
684			Molecular Pharmaceutics	3	0	0	3	
685			Environmental Pharmaceutics	1	0	0	1	
	Pharmaceutics total		107	0	1	108		
691	M	E	Medical Sociology	6	0	0	6	
692			Human Genetics	2	1	0	3	
693			Applied Pharmacology and Medical Pharmacology	3	0	0	3	
694			Pathological Examination	13	12	0	25	
696			Science of Basic and Local Nursing	13	4	0	17	
697			Science of Clinical Nursing	21	4	0	25	
	Medicine in General total		58	21	0	79		
	MEDICINE Total		1,568	120	1	1,689		
702	I	N	History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	5	0	0	5	
703			Physical Education	26	3	0	29	
704			Human Geography	6	0	0	6	
705			Physical Geography	11	0	0	11	
			Geography total		17	0	0	17
706			Home Science (inclu. Cloth/Living Environments)	5	10	0	15	
707			Food Culture	15	8	0	23	
			Domestic Science total		20	18	0	38
708			Science of Cultural Property	0	0	0	0	
711			Science Education	1	0	0	1	
712	Educational Engineering	5	0	0	5			
713	Curriculum Studies	1	0	0	1			
714	Japanese Language Education	0	0	0	0			
	Science Education- Curriculum Education total		7	0	0	7		
721	A	R	Statistics	6	1	0	7	
731			Computer Science	41	2	1	44	
732			Intelligent Informatics	38	1	0	39	
733			Study of Information System (Inclu. Library and Information Science)	14	1	1	16	
	Information Science total		93	4	2	99		
741	Social System Engineering	18	0	0	18			
751	Natural Disaster Science	3	0	1	4			
761	Plasma Science and Technology	9	1	2	12			
772	Nuclear Fusion	2	0	1	3			

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	I N T E R D I S C I P L I N A R Y A R E A		Energy Science General	5	0	0	5
774			Nuclear Power Science	0	0	0	0
			Energy total	7	0	1	8
801			Environmental Dynamic Analysis	10	0	1	11
802			Environmental Influence Assessment (inclu. Radiobiology)	14	4	0	18
803			Environmental Preservation	12	1	0	13
			Environmental Science total	36	5	1	42
811			Biological Organic Chemistry	13	1	0	14
812			Structured Biochemistry	29	1	0	30
813			Functional Biochemistry	30	5	0	35
			Biological Chemistry total	72	7	0	79
821			Biophysics	26	0	1	27
822			Molecular Biology	39	1	0	40
823			Cell Biology	32	1	0	33
824			Developmental Biology	17	0	0	17
			Basic Biology total	114	2	1	117
831			Neuroanatomy and Neuropathology	17	3	0	20
832			Neurochemistry and Neuropharmacology	12	1	0	13
833			Neuro Science in General	19	2	0	21
834			Neuro and Muscular Physiology	12	1	0	13
			Neuro Science (inclu. Brain Science) total	60	7	0	67
841			Laboratory Animal Science	7	0	0	7
851			Medical Organism Engineering and Material Science of Organism	13	1	4	18
			INTERDISCIPLINARY AREA Total	513	49	12	574
999		WIDE AREA Total	34	0	0	34	
		Item n.a. Total	21	5	1	27	
		Grand Total	4,082	330	102	4,514	

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
211			Philosophy	92	9	0	0	101
212			Chinese Philosophy	23	2	0	0	25
213			Indian Philosophy (inclu. Buddhist Studies)	89	12	0	4	105
214			Religion	100	12	0	0	112
215			Ethics	25	0	0	0	25
216			History of Philosophy	45	6	0	0	51
217			Aesthetics (inclu. Arts)	51	6	0	0	57
218			Art History	28	5	0	0	33
			Philosophy total	453	52	0	4	509
221			ARTS · HUMANITIES		Experimental Psychology	136	13	0
222	Educational and Social	264			42	0	1	307
223	Sociology (inclu. Social Welfare)	238			25	0	1	264
224	Education	161			34	0	0	195
225	Cultural Anthropology (inclu. Ethnology and Folklore)	119			15	0	0	134
	Psychology · Sociology · Education Cultural Anthropology total	918	129	0	4	1,051		
231			Japanese History	163	20	0	3	186
232			Oriental History	95	2	0	2	99
233			European History	89	4	0	0	93
234			Archaeology (inclu. Prehistory)	31	2	0	1	34
	History total	378	28	0	6	412		
241			Japanese Language	41	4	0	0	45
242			Japanese Literature	146	27	0	0	173
243			Chinese Language and Literature	51	0	0	0	51
244			English Language and Literature	193	18	0	0	211
245			French Language and Literature	90	5	0	0	95
246			German Language and Literature	48	1	0	0	49
247			Other Foreign Languages and Literatures	32	2	0	0	34
248			Linguistics and Phonetics	172	17	0	1	190
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	47	4	0	0	51
			Literature total	820	78	0	1	899
	ARTS · HUMANITIES Total	2,569	287	0	15	2,871		
261	LAW		Basic Science of Law	55	2	0	0	57
262			Public Law	63	3	0	0	66
263			International Law	43	0	0	1	44
264			Civil Law	118	0	0	4	122
265			Social Law	26	3	0	1	30
266			Criminal Law	49	1	0	0	50
267			Politics	190	3	0	0	193
	LAW Total	544	12	0	6	562		
271	ECONOMICS		General Theory of Economics	250	13	0	0	263
272			Economical Statistics	44	0	0	0	44
273			Economic Policy (inclu. Economic Condition)	263	8	0	0	271
274			Economic History	122	4	0	0	126
275			Public Finance, Money and Banking	118	7	0	0	125
276			Commercial Science	81	4	0	0	85
277			Business Administration	255	20	0	0	275
278			Accounting	130	3	0	0	133
			ECONOMICS Total	1,263	59	0	0	1,322
301			SCIENCE		Algebra	156	5	0
302	Geometry	125			6	0	0	131
304	Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	172			9	0	1	182
305	Basic Analysis	110			3	0	0	113
306	Larger-area Analysis	27			1	0	0	28
	Mathematics total	590			24	0	1	615
311			Astronomy	43	9	0	0	52
321			Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	292	36	0	0	328

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)	140	4	2	1	147		
323			Solid State Physics II (Magnetism, Metal Physics,	139	7	0	0	146		
324			Physical Properties in General (inclu. Basic Theories)	135	12	0	1	148		
325			Physics in General	92	8	0	2	102		
Physics total				798	67	2	4	871		
331			Physics of Solid Earth	31	4	0	1	36		
332			Meteorology, Oceanography and Hydrology	45	2	0	0	47		
333			Aeronomy	17	2	0	0	19		
334			Geology	31	3	0	3	37		
335			Stratigraphy and Paleontology	15	2	0	2	19		
336	Mineralogy, Petrology and Study of Mineral Deposit	28	0	0	0	28				
337	Geochemistry	23	1	0	0	24				
Earth Science total				190	14	0	6	210		
341	C H E M I S T R Y		Physical Chemistry	178	11	0	1	190		
342			Organic Chemistry	179	7	0	18	204		
343			Inorganic Chemistry	81	5	0	0	86		
344			Function, Properties and Materials in Chemistry	76	8	0	0	84		
345			Substance Transformation	7	0	0	0	7		
346			Separation, Refining and Identification	66	4	0	0	70		
Chemistry total				587	35	0	19	641		
351	B I O L O G Y		Genetics	34	7	0	3	44		
352			Ecology	83	23	0	5	111		
353			Plant Physiology	58	13	0	1	72		
354			Morphology, Structure of Organism	32	7	0	1	40		
355			Animal Physiology and	51	3	0	2	56		
356			Morphology and Taxonomy	54	5	0	7	66		
Biology total				312	58	0	19	389		
361			Physical Anthropology (inclu. Physiological Anthropology)	33	4	0	0	37		
SCIENCE Total				2,553	211	2	49	2,815		
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	57	4	1	2	64		
402			Surface Physics	49	1	0	0	50		
403			Applied Optics and Quantum Optics	102	3	1	0	106		
404			General Applied Physics	30	3	0	3	36		
405			Fundamentals of Engineering	27	3	0	0	30		
Applied Physics-Fundamentals of Engineering total				265	14	2	5	286		
411	G I N E E R I N G		Materials for Machines and Strength of Materials	211	11	3	0	225		
412			Workshop Processes and Production Engineering	154	3	2	0	159		
413			Design Engineering, Machine Elements and Tribology	77	3	1	0	81		
414			Fluid Mechanics	174	7	0	0	181		
415			Heat Engineering	184	6	1	0	191		
416			Mechanics and Control Engineering	142	6	0	0	148		
417			Intelligent Mechanics and Machine System	101	7	0	0	108		
Machine Engineering total				1,043	43	7	0	1,093		
421	E L E C T R I C E N G I N E E R I N G		Electric Power Engineering and Electric Machinery	202	7	1	0	210		
422			Electronic and Electric Materials Engineering	180	9	0	3	192		
423			Electron Devices and Apparatus Engineering	187	9	0	1	197		
424			Information and Communication Engineering	411	25	1	1	438		

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
425	E N G I N E E R I N G		System Engineering	108	10	0	1	119
427			Electronic Measurements	85	4	0	0	89
428			Control Engineering	60	3	1	0	64
			Electric and Electronic Engineering	1,233	67	3	6	1,309
431			Construction Materials and Dynamics in General Civil Engineering	76	1	0	0	77
432			Structural Engineering and Seismology	110	7	0	1	118
433			Ground Engineering	86	3	0	0	89
434			Hydraulics and River Engineering	82	2	0	2	86
435			Traffic Engineering and Regional Planning	77	4	0	0	81
436			Civil Environmental System	57	0	0	1	58
	Civil Engineering total	488	17	0	4	509		
441	A R C H I T E C T U R E		Building Structure and Materials	210	7	0	1	218
442			Building Science and Building Equipment	112	9	0	2	123
443			City Planning and Building Planning	219	16	0	0	235
444			Architectural History and Design	74	14	0	0	88
	Architecture total	615	46	0	3	664		
451	M A T E R I A L E N G I N E E R I N G		Physical Metallurgy	35	0	0	2	37
452			Inorganic Materials and	91	2	0	1	94
453			Composed Materials and Properties	32	1	0	0	33
454			Structural and Functional Materials	42	4	0	4	50
455			Metallurgy and Material	71	7	0	2	80
456			Metal Productive Engineering	17	3	0	0	20
	Material Engineering total	288	17	0	9	314		
461	I N D U S T R I A L C H E M I S T R Y		Chemical Engineering in General	42	1	0	0	43
462			Reaction and Separation Engineering	38	0	0	1	39
463			Catalyst and Chemical Process	22	0	0	1	23
464			Bioengineering	46	0	0	0	46
465			Industrial Analytical Chemistry	24	0	0	0	24
			Process Engineering total	172	1	0	2	175
471			Industrial Physical Chemistry	48	2	0	2	52
472			Industrial Inorganic Chemistry	31	0	0	0	31
473			Industrial Organic Chemistry	50	4	0	0	54
474			Synthetic Chemistry	53	0	0	4	57
475	Polymer Synthesis	56	2	0	0	58		
476	Polymer Structure and Property (inclu. Fiber)	63	25	0	0	88		
	Industrial Chemistry total	301	33	0	6	340		
481	S Y N T H E T I C E N G I N E E R I N G		Aeronautics	38	0	0	0	38
482			Ship Engineering	16	1	0	0	17
483			Marine Engineering	16	0	0	0	16
484			Resource Development Engineering	9	0	0	0	9
	Synthetic Engineering total	79	1	0	0	80		
	ENGINEERING Total			4,484	239	12	35	4,770
501	A G R I C U L T U R E		Plant Breeding	24	4	0	4	32
502			Crop Science	15	2	0	0	17
503			Horticulture and Landscape Architecture	49	21	0	0	70
504			Plant Protection	34	4	0	0	38
505			Sericultural Science and Economic Entomology	11	3	0	6	20
			Agriculture total	133	34	0	10	177
511			Plant Fertilizer and Manure and Soil Science	27	8	0	0	35
512			Applied Microbiochemistry and Applied Biochemistry	147	40	0	18	205
513			Biological Productive Chemistry and Bioorganic Chemistry	26	7	0	4	37
514			Food Science and Nutritional Chemistry	171	157	0	1	329

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
			Agricultural Chemistry total	371	212	0	23	606
521			Forestry	19	4	0	0	23
522			Wood Science	9	0	0	1	10
	A		Forestry total	28	4	0	1	33
531			Fisheries in General	71	9	0	0	80
532	G		Fisheries Chemistry	21	9	0	2	32
			Fisheries total	92	18	0	2	112
541	R		Agricultural Economics	89	4	0	0	93
551	I		Irrigation, Drainage and Reclamation Engineering and Rural Planning	24	3	0	3	30
552	C		Agricultural Machinery	12	4	0	0	16
553			Biological Environment	8	0	0	0	8
	U		Agricultural Engineering total	44	7	0	3	54
561	L		Animal Science and Grassland Science	38	1	0	0	39
562			Applied Animal Science	38	2	0	0	40
563	T		Basic Veterinary Medicine and Basic Animal Science	96	1	0	12	109
564	U		Applied Veterinary Medicine	76	1	0	10	87
	R		Animal Science-Veterinary Medicine total	248	5	0	22	275
571			Biological Resource Science	8	5	0	2	15
572	E		Applied Molecular Cell Biology	12	2	0	0	14
			Interdisciplinary Agricultural Science total	20	7	0	2	29
			AGRICULTURE Total	1,025	291	0	63	1,379
601			Anatomy in General (inclu. Histology, Embryology)	181	20	0	3	204
602			Physiology in General	163	22	0	1	186
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	100	26	0	0	126
604			Pharmacology in General	161	11	0	2	174
605			Medical Chemistry in General	107	18	0	6	131
606			Pathological Medical Chemistry	42	6	0	3	51
			Physiology total	754	103	0	15	872
611			Hominal Pathology	221	7	0	7	235
612			Experimental Pathology	64	9	0	9	82
613	M		Parasitology (inclu. Medical Zoology)	65	7	0	1	73
614			Bacteriology (inclu. Eumycetes)	114	15	0	6	135
615	E		Virology	51	2	0	10	63
616			Immunology	143	6	0	8	157
	D		Pathology total	658	46	0	41	745
621			Hygiene	113	11	0	9	133
622	I		Public Health and Health	227	61	0	5	293
623			Legal Medicine	81	1	0	0	82
	C		Social Medicine total	421	73	0	14	508
631			Internal Medicine in General	208	7	0	3	218
632	I		Gastroenterology	293	0	0	3	296
633	N		Internal Medicine Respiratory System	148	0	0	2	150
634			Neurological Medicine	166	5	0	1	172
635	E		Cardioangiology	346	5	0	9	360
636			Pediatrics	225	12	0	3	240
637			Dermatology	129	2	0	2	133
638			Radiology	229	11	0	2	242
639			Neuropsychiatry	231	11	0	1	243
641			Hematology	169	2	0	2	173
642			Internal Medicine of Kidney	105	0	0	1	106
643			Embryology and Newborn	18	0	0	0	18
644			Endocrinology	75	2	0	0	77
645			Metabolic Science	64	2	0	0	66
			Internal Medicine total	2,406	59	0	29	2,494
651			Surgery in General	253	1	0	1	255
652			Gastroenterological Surgery	290	3	0	4	297
653			Thoracic Surgery	171	1	0	4	176

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		
654	M	E	Neurosurgery	171	0	0	1	172		
655			Orthopedic Surgery	260	7	0	2	269		
656			Anesthesiology and Rescue Medicine	197	0	0	1	198		
657			Urology	160	1	0	2	163		
658			Obstetrics and Gynecology	216	1	0	0	217		
659			Oto-rhino-laryngology	166	2	0	2	170		
660			Ophthalmology	157	0	0	0	157		
661			Pediatric Surgery	36	2	0	0	38		
662			Formative Surgery	38	0	0	0	38		
					Surgery total	2,115	18	0	17	2,150
671	M	D	Oral Anatomy and Morphological Basic Dentistry	250	4	0	0	254		
672			Functional Basic Dentistry	198	3	0	0	201		
673			Morbid Dentistry (inclu. Dental Radiology)	128	4	0	0	132		
674			Conservative Dentistry	273	9	0	0	282		
675			Prosthodontics and Dental Technology	403	6	0	0	409		
676			Oral Surgery	332	6	0	0	338		
677			Orthodontics, Pedodontics and Social Dentistry	279	8	0	0	287		
678			Periodontological Dentistry	38	0	0	0	38		
			Dentistry total	1,901	40	0	0	1,941		
681	N	E	Chemical Pharmaceutics	414	5	0	9	428		
682			Physical Pharmaceutics	140	0	0	0	140		
683			Biopharmaceutics	491	3	0	11	505		
684			Molecular Pharmaceutics	37	0	0	1	38		
685			Environmental Pharmaceutics	15	2	0	0	17		
			Pharmaceutics total	1,097	10	0	21	1,128		
691	M	E	Medical Sociology	37	2	0	1	40		
692			Human Genetics	12	0	0	1	13		
693			Applied Pharmacology and Medical Pharmacology	87	3	0	1	91		
694			Pathological Examination	63	10	0	0	73		
696			Science of Basic and Local Nursing	21	1	0	0	22		
697			Science of Clinical Nursing	20	4	0	0	24		
			Medicine in General total	240	20	0	3	263		
	MEDICINE Total			9,592	369	0	140	10,101		
702	I	N	History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	36	5	0	0	41		
703			Physical Education	82	16	0	0	98		
704			Human Geography	94	3	0	1	98		
705			Physical Geography	38	1	0	0	39		
					Geography total	132	4	0	1	137
706			Home Science (inclu. Cloth/Living Environments)	65	37	0	0	102		
707			Food Culture	33	54	0	0	87		
					Domestic Science total	98	91	0	0	189
708			Science of Cultural Property	2	0	0	0	2		
711			Science Education	19	7	0	0	26		
712	Educational Engineering	31	5	0	0	36				
713	Curriculum Studies	16	4	0	0	20				
714	Japanese Language Education	7	0	0	0	7				
			Science Education- Curriculum Education total	73	16	0	0	89		
721	A	R	Statistics	53	2	0	1	56		
731			Computer Science	262	10	0	0	272		
732			Intelligent Informatics	163	4	0	0	167		
733			Study of Information System (Inclu. Library and Information Science)	110	13	1	0	124		
			Information Science total	535	27	1	0	563		
741	A	R	Social System Engineering	100	5	0	0	105		
751			Natural Disaster Science	5	0	0	1	6		
761			Plasma Science and Technology	56	2	0	0	58		
772			Nuclear Fusion	14	1	0	0	15		

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
773	INTERDISCIPLINARY AREA		Energy Science General	13	2	0	0	15
774			Nuclear Power Science	28	1	0	0	29
			Energy total	55	4	0	0	59
801			Environmental Dynamic Analysis	39	4	0	0	43
802			Environmental Influence Assessment (inclu. Radiobiology)	39	5	0	3	47
803			Environmental Preservation	58	4	0	2	64
			Environmental Science total	136	13	0	5	154
811			Biological Organic Chemistry	57	5	0	10	72
812			Structured Biochemistry	74	4	0	6	84
813			Functional Biochemistry	104	14	0	2	120
			Biological Chemistry total	235	23	0	18	276
821			Biophysics	76	2	0	0	78
822			Molecular Biology	183	9	0	19	211
823			Cell Biology	107	6	0	10	123
824			Developmental Biology	50	2	0	1	53
			Basic Biology total	416	19	0	30	465
831			Neuroanatomy and Neuropathology	61	3	0	0	64
832			Neurochemistry and Neuropharmacology	80	6	0	0	86
833			Neuro Science in General	101	7	0	5	113
834			Neuro and Muscular Physiology	71	8	0	0	79
			Neuro Science (inclu. Brain Science) total	313	24	0	5	342
841			Laboratory Animal Science	23	1	0	8	32
851			Medical Organism Engineering and Material Science of Organism	119	11	0	0	130
			INTERDISCIPLINARY AREA Total	2,469	263	1	69	2,802
999		WIDE AREA Total	268	33	0	3	304	
		Item n.a. Total	188	30	0	2	220	
		Grand Total	24,955	1,794	15	382	27,146	

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	Philosophy	1,398	205	42	0	0	0	1,645	
212			Chinese Philosophy	303	23	27	0	1	0	354	
213			Indian Philosophy (inclu. Buddhist Studies)	603	126	10	6	0	41	786	
214			Religion	623	124	14	1	0	2	764	
215			Ethics	409	36	7	0	5	0	457	
216			History of Philosophy	510	51	11	0	0	9	581	
217			Aesthetics (inclu. Arts)	1,963	753	5	3	14	1	2,739	
218			Art History	650	60	0	5	88	7	810	
		Philosophy total	6,459	1,378	116	15	108	60	8,136		
221		Psychology · Sociology · Education	Cultural Anthropology	Experimental Psychology	1,387	125	2	12	12	6	1,544
222				Educational and Social Psychology	3,676	905	4	29	57	5	4,676
223				Sociology (inclu. Social Welfare)	3,766	801	2	13	3	12	4,597
224				Education	3,746	1,168	55	22	120	19	5,130
225				Cultural Anthropology (inclu. Ethnology and Folklore)	1,251	176	0	71	4	0	1,502
		Psychology · Sociology · Education Cultural Anthropology total	13,826	3,175	63	147	196	42	17,449		
231		History	History	Japanese History	1,436	178	52	46	13	24	1,749
232				Oriental History	913	48	11	0	1	7	980
233				European History	1,109	116	15	0	2	3	1,245
234				Archaeology (inclu. Prehistory)	576	29	4	25	55	26	715
		History total	4,034	371	82	71	71	60	4,689		
241		Literature	Literature	Japanese Language	959	172	20	0	20	0	1,171
242				Japanese Literature	2,227	734	130	20	5	0	3,116
243				Chinese Language and Literature	935	56	15	0	0	0	1,006
244				English Language and Literature	5,892	1,614	255	0	1	0	7,762
245				French Language and Literature	1,125	94	4	0	0	2	1,225
246				German Language and Literature	1,512	35	36	0	0	0	1,583
247				Other Foreign Languages and Literatures	729	36	0	0	0	0	765
248				Linguistics and Phonetics	2,214	393	81	10	20	2	2,720
249	Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics			540	76	0	1	0	2	619	
	Literature total	16,133	3,210	541	31	46	6	19,967			
	ARTS · HUMANITIES Total		40,452	8,134	802	264	421	168	50,241		
261	LAW	LAW	Basic Science of Law	597	48	5	2	0	0	652	
262			Public Law	997	98	16	0	0	2	1,113	
263			International Law	577	9	3	0	0	0	589	
264			Civil Law	1,580	96	5	1	0	7	1,689	
265			Social Law	350	18	0	0	0	3	371	
266			Criminal Law	470	23	3	0	0	3	499	
267			Politics	1,949	103	3	6	3	0	2,064	
	LAW Total		6,520	395	35	9	3	15	6,977		
271	ECONOMICS	ECONOMICS	General Theory of Economics	2,201	138	8	3	0	0	2,350	
272			Economical Statistics	449	18	0	0	0	0	467	
273			Economic Policy (inclu. Economic Condition)	2,385	129	13	0	0	6	2,533	
274			Economic History	932	46	1	0	0	4	983	
275			Public Finance, Money and Banking	1,139	73	0	3	0	0	1,215	
276			Commercial Science	864	120	4	0	0	0	988	
277			Business Administration	2,257	412	7	3	0	0	2,679	
278			Accounting	1,378	203	1	0	0	0	1,582	
	ECONOMICS Total		11,605	1,139	34	9	0	10	12,797		
301	SCIENCE	SCIENCE	Algebra	827	16	70	0	0	0	913	
302			Geometry	750	17	69	0	0	0	836	
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	1,065	40	87	14	0	2	1,208	
305			Basic Analysis	581	16	46	0	0	0	643	

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
306	E		Larger-area Analysis	236	2	15	0	0	0	253
			Mathematics total	3,459	91	287	14	0	2	3,853
311			Astronomy	446	13	15	140	3	0	617
321			Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	1,963	101	50	194	2	0	2,310
322			Solid State Physics I (Optical Properties, Semiconductor and Dielectrics)	1,282	12	65	18	0	3	1,380
323			Solid State Physics II (Magnetism, Metal Physics,	1,399	15	41	19	0	0	1,474
324			Physical Properties in General (inclu. Basic Theories)	949	29	43	29	0	1	1,051
325			Physics in General	706	22	34	30	0	0	792
			Physics total	6,299	179	233	290	2	4	7,007
331	S		Physics of Solid Earth	755	8	3	41	1	2	810
332			Meteorology, Oceanography and Hydrology	728	9	16	24	0	0	777
333	C		Aeronomy	267	2	5	32	0	0	306
334			Geology	468	8	1	0	9	11	497
335	I		Stratigraphy and Paleontology	280	5	0	4	20	4	313
336	E		Mineralogy, Petrology and Study of Mineral Deposit	612	0	0	8	12	0	632
337			Geochemistry	468	10	8	7	1	0	494
	N		Earth Science total	3,578	42	33	116	43	17	3,829
341	C		Physical Chemistry	1,781	29	31	88	5	2	1,936
342			Organic Chemistry	1,503	16	53	10	0	43	1,625
343	E		Inorganic Chemistry	697	11	23	19	2	0	752
344			Function, Properties and Materials in Chemistry	767	16	34	9	2	0	828
345			Substance Transformation	80	0	2	0	0	0	82
346			Separation, Refining and Identification	565	14	22	4	0	0	605
			Chemistry total	5,393	86	165	130	9	45	5,828
351			Genetics	518	14	0	35	0	3	570
352			Ecology	1,083	79	1	11	16	39	1,229
353			Plant Physiology	740	22	5	18	0	3	788
354			Morphology, Structure of Organism	358	18	2	13	3	12	406
355			Animal Physiology and Metabolism	445	14	0	8	0	5	472
356			Morphology and Taxonomy	589	21	0	9	65	33	717
			Biology total	3,733	168	8	94	84	95	4,182
361			Physical Anthropology (inclu. Physiological Anthropology)	253	9	0	0	9	1	272
	SCIENCE		Total	23,161	588	741	784	150	164	25,588
401			Applied Physics of Property and Crystallography	699	7	39	3	0	3	751
402			Surface Physics	482	4	25	1	0	0	512
403			Applied Optics and Quantum Optics	765	12	67	9	0	0	853
404			General Applied Physics	305	12	23	2	0	9	351
405			Fundamentals of Engineering	207	7	26	0	0	0	240
	E		Applied Physics- Fundamentals of Engineering total	2,458	42	180	15	0	12	2,707
411	N		Materials for Machines and Strength of Materials	1,534	27	245	6	0	0	1,812
412	E		Workshop Processes and Production Engineering	1,129	14	165	3	0	0	1,311
413	E		Design Engineering, Machine Elements and Tribology	756	23	111	5	0	1	896
414	E		Fluid Mechanics	1,440	25	187	5	0	0	1,657
415	E		Heat Engineering	1,375	23	185	19	0	0	1,602
416	E		Mechanics and Control Engineering	1,083	28	182	6	0	0	1,299
417	E		Intelligent Mechanics and Machine System	933	31	74	0	0	0	1,038
			Machine Engineering total	8,250	171	1,149	44	0	1	9,615

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
421			Electric Power Engineering and Electric Machinery	1,171	27	200	12	0	0	1,410
422			Electronic and Electric Materials Engineering	1,279	25	160	6	0	8	1,478
423			Electron Devices and Apparatus Engineering	1,207	27	129	9	0	3	1,375
424			Information and Communication Engineering	2,418	104	312	34	0	1	2,869
425			System Engineering	679	36	45	7	0	2	769
427			Electronic Measurements	530	13	95	3	0	0	641
428			Control Engineering	601	13	101	3	0	0	718
			Electric and Electronic Engineering total	7,885	245	1,042	74	0	14	9,260
431			Construction Materials and Dynamics in General Civil	539	8	83	0	0	0	630
432			Structural Engineering and Seismology	759	22	85	0	0	0	866
433			Ground Engineering	771	7	87	0	0	0	865
434			Hydraulics and River Engineering	798	7	87	0	0	3	895
435			Traffic Engineering and Regional Planning	655	18	39	0	0	0	712
436			Civil Environmental System	511	10	59	0	0	1	581
			Civil Engineering total	4,033	72	440	0	0	4	4,549
441			Building Structure and Materials	1,338	23	67	0	5	0	1,433
442			Building Science and Building Equipment	691	58	26	0	0	3	778
443			City Planning and Building Planning	1,607	158	80	0	0	0	1,845
444			Architectural History and Design	621	89	32	3	15	0	760
			Architecture total	4,257	328	205	3	20	3	4,816
451			Physical Metallurgy	607	4	43	0	0	4	658
452			Inorganic Materials and Properties	952	4	42	0	0	3	1,001
453			Composed Materials and Properties	316	3	33	0	0	0	352
454			Structural and Functional Materials	628	14	34	3	0	8	687
455			Metallurgy and Material Processing	753	22	72	1	0	5	853
456			Metal Productive Engineering	401	11	28	0	0	0	440
			Material Engineering total	3,657	58	252	4	0	20	3,991
461			Chemical Engineering in General	727	4	59	0	0	0	790
462			Reaction and Separation Engineering	485	0	51	0	0	1	537
463			Catalyst and Chemical Process	384	3	12	0	0	1	400
464			Bioengineering	636	2	28	0	0	0	666
465			Industrial Analytical Chemistry	291	0	32	3	0	0	326
			Process Engineering total	2,523	9	182	3	0	2	2,719
471			Industrial Physical Chemistry	678	7	22	0	0	6	713
472			Industrial Inorganic Chemistry	291	0	13	2	0	0	306
473			Industrial Organic Chemistry	367	9	17	0	0	0	393
474			Synthetic Chemistry	751	2	36	0	0	9	798
475			Polymer Synthesis	666	5	30	0	0	0	701
476			Polymer Structure and Property (inclu. Fiber)	816	80	31	2	0	0	929
			Industrial Chemistry total	3,569	103	149	4	0	15	3,840
481			Aeronautics	400	0	7	73	0	0	480
482			Ship Engineering	293	3	43	0	0	0	339
483			Marine Engineering	118	0	5	0	0	0	123
484			Resource Development Engineering	305	0	9	0	0	0	314
			Synthetic Engineering total	1,116	3	64	73	0	0	1,256
			ENGINEERING Total	37,748	1,031	3,663	220	20	71	42,753
501			Plant Breeding	352	17	1	0	3	18	391
502			Crop Science	338	19	0	0	0	2	359
503			Horticulture and Landscape Architecture	746	81	2	0	6	0	835
504			Plant Protection	503	21	0	0	0	1	525

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
505	E	U	Sericultural Science and Economic Entomology	133	5	0	0	0	12	150
			Agriculture total	2,072	143	3	0	9	33	2,260
511			Plant Fertilizer and Manure and Soil Science	441	29	0	0	1	0	471
512			Applied Microbiochemistry and Applied Biochemistry	1,439	110	22	4	0	35	1,610
513			Biological Productive Chemistry and Bioorganic Chemistry	408	16	6	0	0	6	436
514			Food Science and Nutritional Chemistry	1,203	596	11	0	0	13	1,823
			Agricultural Chemistry total	3,491	751	39	4	1	54	4,340
521			Forestry	737	13	0	0	0	0	750
522			Wood Science	551	2	0	0	0	2	555
			Forestry total	1,288	15	0	0	0	2	1,305
531			Fisheries in General	982	24	3	0	0	4	1,013
532			Fisheries Chemistry	387	25	0	0	0	3	415
			Fisheries total	1,369	49	3	0	0	7	1,428
541			Agricultural Economics	822	50	0	0	0	0	872
551			Irrigation, Drainage and Reclamation Engineering and	512	43	0	0	0	2	557
552			Agricultural Machinery	357	33	1	0	0	0	391
553			Biological Environment	200	0	0	0	0	0	200
			Agricultural Engineering total	1,069	76	1	0	0	2	1,148
561			Animal Science and Grassland Science	464	25	0	0	0	0	489
562			Applied Animal Science	374	16	0	0	0	4	394
563			Basic Veterinary Medicine and Basic Animal Science	741	11	0	0	3	26	781
564			Applied Veterinary Medicine	562	3	0	0	0	25	590
			Animal Science-veterinary Medicine total	2,141	55	0	0	3	55	2,254
571			Biological Resource Science	179	11	0	2	0	6	198
572			Applied Molecular Cell Biology	134	5	0	0	0	0	139
			Interdisciplinary Agricultural Science total	313	16	0	2	0	6	337
			AGRICULTURE Total	12,565	1,155	46	6	13	159	13,944
601			Anatomy in General (inclu. Histology, Embryology)	1,008	65	0	2	0	9	1,084
602			Physiology in General	967	84	0	18	0	0	1,069
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional	617	115	9	0	0	1	742
604			Pharmacology in General	818	17	0	3	0	6	844
605			Medical Chemistry in General	838	40	3	4	0	11	896
606			Pathological Medical Chemistry	336	21	0	0	0	7	364
			Physiology total	4,584	342	12	27	0	34	4,999
611			Hominal Pathology	1,073	38	0	0	0	9	1,120
612			Experimental Pathology	594	32	0	0	0	26	652
613			Parasitology (inclu. Medical Zoology)	420	13	0	0	0	1	434
614			Bacteriology (inclu. Eumycetes)	642	63	1	0	0	21	727
615			Virology	526	5	0	0	0	28	559
616			Immunology	979	40	0	0	0	26	1,045
			Pathology total	4,234	191	1	0	0	111	4,537
621			Hygiene	613	43	0	0	0	19	675
622			Public Health and Health Science	1,609	379	3	3	0	8	2,002
623			Legal Medicine	537	3	0	0	0	0	540
			Social Medicine total	2,759	425	3	3	0	27	3,217
631			Internal Medicine in General	1,012	51	0	0	0	3	1,066
632			Gastroenterology	1,446	2	0	0	0	13	1,461
633			Internal Medicine Respiratory System	754	16	0	0	0	5	775
634			Neurological Medicine	871	23	0	6	0	4	904
635			Cardioangiology	1,678	28	0	0	0	17	1,723
636			Pediatrics	1,321	53	0	0	1	6	1,381
637			Dermatology	851	3	0	0	0	0	854

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		
638	M	E	Radiology	1,375	95	0	1	0	9	1,480		
639			Neuropsychiatry	1,417	43	0	0	3	3	1,466		
641			Hematology	862	12	0	0	0	2	876		
642			Internal Medicine of Kidney	541	8	0	0	0	2	551		
643			Embryology and Newborn Medicine	76	0	0	0	0	0	76		
644			Endocrinology	455	7	0	0	0	0	462		
645			Metabolic Science	461	8	0	0	0	0	469		
			Internal Medicine total	13,120	349	0	7	4	64	13,544		
651			D	I	Surgery in General	1,078	11	0	0	0	2	1,091
652					Gastroenterological Surgery	1,373	13	0	0	0	12	1,398
653					Thoracic Surgery	845	3	0	0	0	7	855
654					Neurosurgery	1,076	0	0	0	0	2	1,078
655					Orthopedic Surgery	1,463	82	0	0	0	5	1,550
656					Anesthesiology and Rescue Medicine	1,090	4	0	0	0	2	1,096
657	Urology	913			2	0	0	0	6	921		
658	Obstetrics and Gynecology	1,104			21	0	0	0	0	1,125		
659	Oto-rhino-laryngology	951			15	0	0	0	4	970		
660	Ophthalmology	898			0	0	0	0	2	900		
661	Pediatric Surgery	226	2	0	0	0	0	228				
662	Formative Surgery	187	0	0	0	0	0	187				
	Surgery total	11,204	153	0	0	0	42	11,399				
671	C	I	Oral Anatomy and Morphological Basic Dentistry	931	7	0	0	0	0	938		
672			Functional Basic Dentistry	726	14	0	0	0	0	740		
673			Morbid Dentistry (inclu. Dental Radiology)	532	8	0	0	0	0	540		
674			Conservative Dentistry	1,130	18	0	0	0	0	1,148		
675			Prosthodontics and Dental Technology	1,623	10	0	0	0	0	1,633		
676			Oral Surgery	1,628	10	0	0	0	2	1,640		
677			Orthodontics, Pedodontics and Social Dentistry	1,491	34	0	0	0	0	1,525		
678			Periodontological Dentistry	234	1	0	0	0	0	235		
	Dentistry total	8,295	102	0	0	0	2	8,399				
681	P	H	Chemical Pharmaceutics	1,560	10	2	0	0	22	1,594		
682			Physical Pharmaceutics	616	2	3	0	0	2	623		
683			Biopharmaceutics	1,954	12	12	0	0	36	2,014		
684			Molecular Pharmaceutics	193	0	3	0	0	3	199		
685			Environmental Pharmaceutics	53	5	0	0	0	0	58		
	Pharmaceutics total	4,376	29	20	0	0	63	4,488				
691	M	E	Medical Sociology	273	37	0	0	0	4	314		
692			Human Genetics	162	1	0	0	0	3	166		
693			Applied Pharmacology and Medical Pharmacology	444	3	2	0	0	2	451		
694			Pathological Examination	399	130	0	0	0	0	529		
696			Science of Basic and Local Nursing	767	427	3	0	0	0	1,197		
697			Science of Clinical Nursing	930	498	0	0	0	0	1,428		
			Medicine in General total	2,975	1,096	5	0	0	9	4,085		
	MEDICINE Total	51,547	2,687	41	37	4	352	54,668				
702	A	R	History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	289	11	10	2	5	0	317		
703			Physical Education	3,030	631	118	0	0	0	3,779		
704			Human Geography	830	28	22	3	2	3	888		
705			Physical Geography	377	12	8	3	0	0	400		
			Geography total	1,207	40	30	6	2	3	1,288		
706	A	S	Home Science(inclu. Cloth/Living Environments)	776	756	0	0	2	0	1,534		
707			Food Culture	309	485	0	0	0	0	794		
	Domestic Science total	1,085	1,241	0	0	2	0	2,328				

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	
708	L I N		Science of Cultural Property	31	0	1	11	16	0	59	
711			Science Education	268	48	25	0	33	0	374	
712			Educational Engineering	471	143	55	26	15	0	710	
713			Curriculum Studies	1,598	412	89	2	22	0	2,123	
714			Japanese Language Education	460	30	0	0	6	19	515	
			Science Education·Curriculum Education total	2,797	633	169	28	76	19	3,722	
721			Statistics	359	12	0	60	0	1	432	
731	I N T E R D I S C I P L I N A R Y A R E A		Computer Science	2,028	122	131	10	0	0	2,291	
732			Intelligent Informatics	1,545	85	93	15	0	0	1,738	
733			Study of Information System (Inclu. Library and Information)	1,156	288	49	20	5	0	1,518	
				Information Science total	4,729	495	273	45	5	0	5,547
741				Social System Engineering	576	24	14	0	0	0	614
751			Natural Disaster Science	115	0	9	0	0	1	125	
761			Plasma Science and Technology	675	5	37	76	0	0	793	
772			Nuclear Fusion	258	3	3	48	0	0	312	
773			Energy Science General	160	2	3	1	0	0	166	
774			Nuclear Power Science	373	4	7	5	0	0	389	
			Energy total	791	9	13	54	0	0	867	
801			Environmental Dynamic Analysis	406	15	11	0	0	0	432	
802			Environmental Influence Assessment (inclu. Radiobiology)	409	33	11	1	0	7	461	
803			Environmental Preservation	534	22	17	0	0	5	578	
			Environmental Science total	1,349	70	39	1	0	12	1,471	
811			Biological Organic Chemistry	512	9	9	1	0	24	555	
812			Structured Biochemistry	573	7	3	2	0	10	595	
813			Functional Biochemistry	734	36	11	3	0	5	789	
			Biological Chemistry total	1,819	52	23	6	0	39	1,939	
821			Biophysics	615	5	12	25	0	1	658	
822			Molecular Biology	1,725	31	4	52	2	32	1,846	
823			Cell Biology	889	15	1	18	1	16	940	
824			Developmental Biology	563	3	5	32	0	3	606	
			Basic Biology total	3,792	54	22	127	3	52	4,050	
831			Neuroanatomy and Neuroanathology	392	16	0	5	0	0	413	
832			Neurochemistry and Neuropharmacology	376	12	0	0	0	0	388	
833			Neuro Science in General	701	19	2	48	0	6	776	
834			Neuro and Muscular Physiology	438	42	0	21	0	0	501	
			Neuro Science (inclu. Brain Science) total	1,907	89	2	74	0	6	2,078	
841			Laboratory Animal Science	199	1	0	3	0	43	246	
851			Medical Organism Engineering and Material Science of Organism	867	39	49	0	0	0	955	
			INTERDISCIPLINARY AREA Total	25,617	3,406	809	493	109	176	30,610	
999			WIDE AREA Total	1,859	529	29	22	4	11	2,454	
			Item n.a. Total	567	166	30	2	2	1	768	
			Grand Total	211,641	19,230	6,230	1,846	726	1,127	240,800	

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	527	6	37	0	0	570
212			Chinese Philosophy	110	0	24	0	1	135
213			Indian Philosophy (inclu. Buddhist Studies)	106	0	10	6	0	122
214			Religion	114	2	11	1	0	128
215			Ethics	198	1	6	0	5	210
216			History of Philosophy	151	1	11	0	0	163
217			Aesthetics (inclu. Arts)	627	20	4	3	14	668
218			Art History	236	0	0	5	88	329
			Philosophy total	2,069	30	103	15	108	2,325
221			Experimental Psychology	674	2	2	12	12	702
222			Educational and Social Psychology	1,485	16	1	29	57	1,588
223			Sociology (inclu. Social Welfare)	812	1	2	13	3	831
224			Education	1,729	16	48	22	120	1,935
225			Cultural Anthropology (inclu. Ethnology and Folklore)	420	0	0	71	4	495
			Psychology · Sociology · Education Cultural Anthropology total	5,120	35	53	147	196	5,551
231			Japanese History	542	3	45	46	13	649
232			Oriental History	384	0	10	0	1	395
233			European History	359	0	13	0	2	374
234			Archaeology (inclu. Prehistory)	282	0	4	25	55	366
			History total	1,567	3	72	71	71	1,784
241			Japanese Language	359	3	20	0	20	402
242		Japanese Literature	539	1	114	20	5	679	
243		Chinese Language and Literature	299	6	15	0	0	320	
244		English Language and Literature	1,318	27	241	0	1	1,587	
245		French Language and Literature	358	0	4	0	0	362	
246		German Language and Literature	551	3	36	0	0	590	
247		Other Foreign Languages and Literatures	305	0	0	0	0	305	
248		Linguistics and Phonetics	746	6	70	10	20	852	
249		Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	177	0	0	1	0	178	
		Literature total	4,652	46	500	31	46	5,275	
		ARTS · HUMANITIES Total	13,408	114	728	264	421	14,935	
261	LAW		Basic Science of Law	225	0	5	2	0	232
262			Public Law	347	0	16	0	0	363
263			International Law	167	0	3	0	0	170
264			Civil Law	497	3	5	1	0	506
265			Social Law	129	1	0	0	0	130
266			Criminal Law	145	0	3	0	0	148
267			Politics	580	0	3	6	3	592
		LAW Total	2,090	4	35	9	3	2,141	
271	ECONOMICS		General Theory of Economics	699	0	8	3	0	710
272			Economical Statistics	156	0	0	0	0	156
273			Economic Policy (inclu. Economic Condition)	618	0	12	0	0	630
274			Economic History	263	0	1	0	0	264
275			Public Finance, Money and Banking	277	2	0	3	0	282
276			Commercial Science	108	0	4	0	0	112
277			Business Administration	395	5	7	3	0	410
278			Accounting	269	2	1	0	0	272
		ECONOMICS Total	2,785	9	33	9	0	2,836	
301	SCIENCE		Algebra	475	2	67	0	0	544
302			Geometry	488	0	60	0	0	548
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	584	1	71	14	0	670
305			Basic Analysis	352	5	43	0	0	400

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
306	E		Larger-area Analysis	165	0	15	0	0	180
			Mathematics total	2,064	8	256	14	0	2,342
311			Astronomy	334	0	12	140	3	489
321			Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	1,340	10	47	194	2	1,593
322			Solid State Physics I (Optical Properties, Semiconductor and Dielectrics)	865	3	56	18	0	942
323			Solid State Physics II (Magnetism, Metal Physics,	1,015	0	37	19	0	1,071
324			Physical Properties in General (inclu. Basic Theories)	610	3	32	29	0	674
325			Physics in General	434	4	30	30	0	498
			Physics total	4,264	20	202	290	2	4,778
331	S		Physics of Solid Earth	669	0	3	41	1	714
332			Meteorology, Oceanography and Hydrology	595	0	16	24	0	635
333	C		Aeronomy	219	0	5	32	0	256
334			Geology	359	0	1	0	9	369
335	I		Stratigraphy and Paleontology	243	0	0	4	20	267
336	E		Mineralogy, Petrology and Study of Mineral Deposit	534	0	0	8	12	554
337			Geochemistry	382	0	8	7	1	398
	N		Earth Science total	3,001	0	33	116	43	3,193
341	C		Physical Chemistry	1,237	2	30	88	5	1,362
342			Organic Chemistry	1,004	0	45	10	0	1,059
343	E		Inorganic Chemistry	466	2	22	19	2	511
344			Function, Properties and Materials in Chemistry	546	0	34	9	2	591
345			Substance Transformation	62	0	1	0	0	63
346			Separation, Refining and Identification	361	1	21	4	0	387
			Chemistry total	3,676	5	153	130	9	3,973
351			Genetics	400	0	0	35	0	435
352			Ecology	796	5	1	11	16	829
353			Plant Physiology	519	0	5	18	0	542
354			Morphology, Structure of Organism	254	2	2	13	3	274
355			Animal Physiology and Metabolism	308	0	0	8	0	316
356			Morphology and Taxonomy	427	0	0	9	65	501
			Biology total	2,704	7	8	94	84	2,897
361			Physical Anthropology (inclu. Physiological Anthropology)	164	0	0	0	9	173
	SCIENCE		Total	16,207	40	664	784	150	17,845
401			Applied Physics of Property and Crystallography	518	0	36	3	0	557
402			Surface Physics	338	0	25	1	0	364
403			Applied Optics and Quantum Optics	490	2	65	9	0	566
404			General Applied Physics	204	1	20	2	0	227
405			Fundamentals of Engineering	129	0	24	0	0	153
			Applied Physics-Fundamentals of Engineering total	1,679	3	170	15	0	1,867
411	E N G I N E E R I N G		Materials for Machines and Strength of Materials	913	0	218	6	0	1,137
412			Workshop Processes and Production Engineering	617	0	145	3	0	765
413			Design Engineering, Machine Elements and Tribology	486	2	97	5	0	590
414			Fluid Mechanics	869	1	170	5	0	1,045
415			Heat Engineering	842	2	166	19	0	1,029
416			Mechanics and Control Engineering	635	0	165	6	0	806
417			Intelligent Mechanics and Machine System	622	0	72	0	0	694
			Machine Engineering total	4,984	5	1,033	44	0	6,066

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
421	E		Electric Power Engineering and Electric Machinery	596	2	173	12	0	783
422			Electronic and Electric Materials Engineering	762	1	157	6	0	926
423			Electron Devices and Apparatus Engineering	691	0	124	9	0	824
424			Information and Communication Engineering	1,257	3	285	34	0	1,579
425			System Engineering	366	7	40	7	0	420
427			Electronic Measurements	289	0	84	3	0	376
428			Control Engineering	402	2	84	3	0	491
			Electric and Electronic Engineering total	4,363	15	947	74	0	5,399
431	E		Construction Materials and Dynamics in General Civil	300	0	77	0	0	377
432			Structural Engineering and Seismology	437	0	71	0	0	508
433			Ground Engineering	495	0	84	0	0	579
434			Hydraulics and River Engineering	551	0	78	0	0	629
435			Traffic Engineering and Regional Planning	411	0	36	0	0	447
436			Civil Environmental System	317	0	58	0	0	375
			Civil Engineering total	2,511	0	404	0	0	2,915
441	N	G	Building Structure and Materials	625	0	67	0	5	697
442			Building Science and Building Equipment	336	5	26	0	0	367
443			City Planning and Building Planning	690	8	78	0	0	776
444			Architectural History and Design	220	0	31	3	15	269
	Architecture total	1,871	13	202	3	20	2,109		
451	E	R	Physical Metallurgy	488	0	43	0	0	531
452			Inorganic Materials and Properties	673	0	42	0	0	715
453			Composed Materials and Properties	202	0	28	0	0	230
454			Structural and Functional Materials	471	3	30	3	0	507
455			Metallurgy and Material Processing	528	3	69	1	0	601
456			Metal Productive Engineering	345	0	28	0	0	373
	Material Engineering total	2,707	6	240	4	0	2,957		
461	N	G	Chemical Engineering in General	567	0	50	0	0	617
462			Reaction and Separation Engineering	370	0	49	0	0	419
463			Catalyst and Chemical Process	317	0	12	0	0	329
464			Bioengineering	501	0	28	0	0	529
465			Industrial Analytical Chemistry	216	0	32	3	0	251
			Process Engineering total	1,971	0	171	3	0	2,145
471	N		Industrial Physical Chemistry	506	4	20	0	0	530
472			Industrial Inorganic Chemistry	187	0	10	2	0	199
473			Industrial Organic Chemistry	236	1	14	0	0	251
474			Synthetic Chemistry	594	0	33	0	0	627
475			Polymer Synthesis	479	0	27	0	0	506
476			Polymer Structure and Property (inclu. Fiber)	602	0	29	2	0	633
			Industrial Chemistry total	2,604	5	133	4	0	2,746
481	N		Aeronautics	253	0	3	73	0	329
482			Ship Engineering	229	0	42	0	0	271
483			Marine Engineering	66	0	5	0	0	71
484			Resource Development Engineering	278	0	7	0	0	285
	Synthetic Engineering total	826	0	57	73	0	956		
	ENGINEERING Total			23,516	47	3,357	220	20	27,160
501	A	G	Plant Breeding	270	0	1	0	3	274
502			Crop Science	278	0	0	0	0	278
503			Horticulture and Landscape Architecture	492	0	2	0	6	500
504			Plant Protection	407	0	0	0	0	407

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
505	A G R I C U L T U R E		Sericultural Science and Economic Entomology	104	0	0	0	0	104
			Agriculture total	1,551	0	3	0	9	1,563
511			Plant Fertilizer and Manure and Soil Science	350	0	0	0	1	351
512			Applied Microbiochemistry and Applied Biochemistry	1,011	0	22	4	0	1,037
513			Biological Productive Chemistry and Bioorganic Chemistry	320	0	6	0	0	326
514			Food Science and Nutritional Chemistry	566	0	11	0	0	577
			Agricultural Chemistry total	2,247	0	39	4	1	2,291
521			Forestry	651	0	0	0	0	651
522			Wood Science	504	2	0	0	0	506
			Forestry total	1,155	2	0	0	0	1,157
531			Fisheries in General	770	0	3	0	0	773
532			Fisheries Chemistry	317	0	0	0	0	317
			Fisheries total	1,087	0	3	0	0	1,090
541			Agricultural Economics	527	0	0	0	0	527
551			Irrigation, Drainage and Reclamation Engineering and Agricultural Machinery	428	0	0	0	0	428
552			Biological Environment	311	0	1	0	0	312
553			Biological Environment	158	0	0	0	0	158
			Agricultural Engineering total	897	0	1	0	0	898
561			Animal Science and Grassland Science	329	0	0	0	0	329
562			Applied Animal Science	281	0	0	0	0	281
563			Basic Veterinary Medicine and Basic Animal Science	445	0	0	0	3	448
564			Applied Veterinary Medicine	320	0	0	0	0	320
			Animal Science-veterinary Medicine total	1,375	0	0	0	3	1,378
571		Biological Resource Science	149	0	0	2	0	151	
572		Applied Molecular Cell Biology	95	0	0	0	0	95	
		Interdisciplinary Agricultural Science total	244	0	0	2	0	246	
		AGRICULTURE Total	9,083	2	46	6	13	9,150	
601	M E D I C I N E		Anatomy in General (inclu. Histology, Embryology)	519	21	0	2	0	542
602			Physiology in General	511	9	0	18	0	538
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional	255	10	9	0	0	274
604			Pharmacology in General	374	2	0	3	0	379
605			Medical Chemistry in General	501	2	3	4	0	510
606			Pathological Medical Chemistry	190	2	0	0	0	192
			Physiology total	2,350	46	12	27	0	2,435
611			Hominal Pathology	509	17	0	0	0	526
612			Experimental Pathology	374	6	0	0	0	380
613			Parasitology (inclu. Medical Zoology)	236	2	0	0	0	238
614			Bacteriology (inclu. Eumycetes)	309	20	1	0	0	330
615			Virology	380	0	0	0	0	380
616			Immunology	589	13	0	0	0	602
			Pathology total	2,397	58	1	0	0	2,456
621			Hygiene	275	5	0	0	0	280
622			Public Health and Health Science	756	65	3	3	0	827
623			Legal Medicine	280	0	0	0	0	280
			Social Medicine total	1,311	70	3	3	0	1,387
631			Internal Medicine in General	447	12	0	0	0	459
632			Gastroenterology	706	2	0	0	0	708
633			Internal Medicine Respiratory System	410	16	0	0	0	426
634			Neurological Medicine	470	1	0	6	0	477
635			Cardioangiology	781	12	0	0	0	793
636		Pediatrics	680	15	0	0	1	696	
637		Dermatology	439	0	0	0	0	439	

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
638			Radiology	803	51	0	1	0	855
639			Neuropsychiatry	746	19	0	0	3	768
641			Hematology	464	7	0	0	0	471
642			Internal Medicine of Kidney	246	1	0	0	0	247
643			Embryology and Newborn Medicine	21	0	0	0	0	21
644			Endocrinology	285	2	0	0	0	287
645			Metabolic Science	277	2	0	0	0	279
			Internal Medicine total	6,775	140	0	7	4	6,926
651			Surgery in General	459	6	0	0	0	465
652			Gastroenterological Surgery	644	6	0	0	0	650
653			Thoracic Surgery	404	2	0	0	0	406
654			Neurosurgery	577	0	0	0	0	577
655			Orthopedic Surgery	761	46	0	0	0	807
656			Anesthesiology and Rescue Medicine	622	4	0	0	0	626
657			Urology	477	0	0	0	0	477
658			Obstetrics and Gynecology	582	8	0	0	0	590
659			Oto-rhino-laryngology	486	0	0	0	0	486
660			Ophthalmology	464	0	0	0	0	464
661			Pediatric Surgery	133	1	0	0	0	134
662			Formative Surgery	72	0	0	0	0	72
			Surgery total	5,681	73	0	0	0	5,754
671			Oral Anatomy and Morphological Basic Dentistry	345	0	0	0	0	345
672			Functional Basic Dentistry	274	0	0	0	0	274
673			Morbid Dentistry (inclu. Dental Radiology)	219	2	0	0	0	221
674			Conservative Dentistry	480	0	0	0	0	480
675			Prosthodontics and Dental Technology	705	0	0	0	0	705
676			Oral Surgery	840	0	0	0	0	840
677			Orthodontics, Pedodontics and Social Dentistry	747	0	0	0	0	747
678			Periodontological Dentistry	128	0	0	0	0	128
			Dentistry total	3,738	2	0	0	0	3,740
681			Chemical Pharmaceutics	529	0	2	0	0	531
682			Physical Pharmaceutics	217	2	0	0	0	219
683			Biopharmaceutics	623	0	12	0	0	635
684			Molecular Pharmaceutics	106	0	3	0	0	109
685			Environmental Pharmaceutics	19	1	0	0	0	20
			Pharmaceutics total	1,494	3	17	0	0	1,514
691			Medical Sociology	103	26	0	0	0	129
692			Human Genetics	128	0	0	0	0	128
693			Applied Pharmacology and Medical Pharmacology	199	0	2	0	0	201
694			Pathological Examination	189	71	0	0	0	260
696			Science of Basic and Local Nursing	297	103	3	0	0	403
697			Science of Clinical Nursing	440	141	0	0	0	581
			Medicine in General total	1,356	341	5	0	0	1,702
			MEDICINE Total	25,102	733	38	37	4	25,914
702			History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	106	0	9	2	5	122
703			Physical Education	1,217	12	112	0	0	1,341
704			Human Geography	406	0	19	3	2	430
705			Physical Geography	216	0	8	3	0	227
			Geography total	622	0	27	6	2	657
706			Home Science (inclu. Cloth/Living Environments)	300	0	0	0	2	302
707			Food Culture	90	0	0	0	0	90
			Domestic Science total	390	0	0	0	2	392
708			Science of Cultural Property	22	0	1	11	16	50

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	
711	AREA		Science Education	165	0	21	0	33	219	
712			Educational Engineering	192	0	38	26	15	271	
713			Curriculum Studies	1,109	5	81	2	22	1,219	
714			Japanese Language Education	268	0	0	0	6	274	
			Science Education· Curriculum Education total	1,734	5	140	28	76	1,983	
721	INTERDISCIPLINARY AREA		Statistics	186	0	0	60	0	246	
731			Computer Science	1,199	5	122	10	0	1,336	
732			Intelligent Informatics	978	8	91	15	0	1,092	
733			Study of Information System (Inclu. Library and Information)	360	4	45	20	5	434	
				Information Science total	2,537	17	258	45	5	2,862
741				Social System Engineering	250	1	11	0	0	262
751				Natural Disaster Science	90	0	6	0	0	96
761				Plasma Science and Technology	513	0	33	76	0	622
772				Nuclear Fusion	225	0	1	48	0	274
773				Energy Science General	109	0	1	1	0	111
774				Nuclear Power Science	304	0	7	5	0	316
				Energy total	638	0	9	54	0	701
801				Environmental Dynamic Analysis	284	0	6	0	0	290
802				Environmental Influence Assessment (inclu. Radiobiology)	263	8	7	1	0	279
803				Environmental Preservation	315	0	17	0	0	332
				Environmental Science total	862	8	30	1	0	901
811				Biological Organic Chemistry	361	0	9	1	0	371
812			Structured Biochemistry	336	0	3	2	0	341	
813			Functional Biochemistry	449	10	11	3	0	473	
			Biological Chemistry total	1,146	10	23	6	0	1,185	
821			Biophysics	417	0	11	25	0	453	
822			Molecular Biology	1,252	3	4	52	2	1,313	
823			Cell Biology	607	1	1	18	1	628	
824			Developmental Biology	421	1	5	32	0	459	
			Basic Biology total	2,697	5	21	127	3	2,853	
831			Neuroanatomy and Neuroanatomy	231	4	0	5	0	240	
832			Neurochemistry and Neuropharmacology	180	1	0	0	0	181	
833			Neuro Science in General	436	0	2	48	0	486	
834			Neuro and Muscular Physiology	255	12	0	21	0	288	
			Neuro Science (inclu. Brain Science) total	1,102	17	2	74	0	1,195	
841			Laboratory Animal Science	119	0	0	3	0	122	
851			Medical Organism Engineering and Material Science of Organism	533	11	40	0	0	584	
			INTERDISCIPLINARY AREA Total	14,764	86	722	493	109	16,174	
999			WIDE AREA Total	625	28	23	22	4	702	
			Item n.a. Total	243	16	26	2	2	289	
			Grand Total	107,823	1,079	5,672	1,846	726	117,146	

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	Philosophy	83	22	5	110	
212			Chinese Philosophy	20	5	3	28	
213			Indian Philosophy (inclu. Buddhist Studies)	5	7	0	12	
214			Religion	14	0	1	15	
215			Ethics	19	5	0	24	
216			History of Philosophy	38	7	0	45	
217			Aesthetics (inclu. Arts)	154	30	0	184	
218			Art History	48	3	0	51	
		Philosophy total	381	79	9	469		
221		Psychology · Sociology · Education · Cultural Anthropology	Experimental Psychology · Educational and Social Psychology	Experimental Psychology	75	17	0	92
222				Sociology (inclu. Social Welfare)	173	52	2	227
223				Sociology (inclu. Social Welfare)	353	66	0	419
224				Education	167	71	5	243
225				Cultural Anthropology (inclu. Ethnology and Folklore)	68	14	0	82
		Psychology · Sociology · Education · Cultural Anthropology total	836	220	7	1,063		
231		History	Japanese History · Oriental History · European History · Archaeology (inclu. Prehistory)	Japanese History	67	18	6	91
232				Oriental History	41	9	1	51
233				European History	61	11	0	72
234				Archaeology (inclu. Prehistory)	7	2	0	9
		History total	176	40	7	223		
241		Literature	Japanese Language · Japanese Literature · Chinese Language and Literature · English Language and Literature · French Language and Literature · German Language and Literature · Other Foreign Languages and Literatures · Linguistics and Phonetics · Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	Japanese Language	53	13	0	66
242	Japanese Literature			110	37	13	160	
243	Chinese Language and Literature			51	5	0	56	
244	English Language and Literature			363	83	12	458	
245	French Language and Literature			48	7	0	55	
246	German Language and Literature			83	0	0	83	
247	Other Foreign Languages and Literatures			26	11	0	37	
248	Linguistics and Phonetics			121	21	10	152	
249	Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics			16	0	0	16	
	Literature total	871	177	35	1,083			
	ARTS · HUMANITIES Total	2,264	516	58	2,838			
261	LAW	Basic Science of Law · Public Law · International Law · Civil Law · Social Law · Criminal Law · Politics	Basic Science of Law	28	3	0	31	
262			Public Law	63	13	0	76	
263			International Law	22	0	0	22	
264			Civil Law	76	7	0	83	
265			Social Law	22	1	0	23	
266			Criminal Law	14	1	0	15	
267			Politics	118	17	0	135	
	LAW Total	343	42	0	385			
271	ECONOMICS	General Theory of Economics · Economical Statistics · Economic Policy (inclu. Economic Condition) · Economic History · Public Finance, Money and Banking · Commercial Science · Business Administration · Accounting	General Theory of Economics	190	30	0	220	
272			Economical Statistics	27	0	0	27	
273			Economic Policy (inclu. Economic Condition)	172	18	1	191	
274			Economic History	64	10	0	74	
275			Public Finance, Money and Banking	107	6	0	113	
276			Commercial Science	45	5	0	50	
277			Business Administration	125	25	0	150	
278			Accounting	96	8	0	104	
	ECONOMICS Total	826	102	1	929			
301	SCIENCE	Algebra · Geometry · Mathematics in General (inclu. Probability Theory and Mathematical Statistics) · Basic Analysis	Algebra	43	2	3	48	
302			Geometry	36	1	8	45	
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	55	2	14	71	
305			Basic Analysis	31	1	3	35	

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	
306			Larger-area Analysis	12	0	0	12	
			Mathematics total	177	6	28	211	
311			Astronomy	15	0	3	18	
321			Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	79	18	3	100	
322			Solid State Physics I (Optical Properties, Semiconductor and Dielectrics)	81	3	4	88	
323			Solid State Physics II (Magnetism, Metal Physics,	83	0	4	87	
324			Physical Properties in General (inclu. Basic Theories)	37	0	10	47	
325			Physics in General	37	1	3	41	
			Physics total	317	22	24	363	
331	S C I E N C E		Physics of Solid Earth	18	0	0	18	
332			Meteorology, Oceanography and Hydrology	22	1	0	23	
333			Aeronomy	0	0	0	0	
334			Geology	34	2	0	36	
335			Stratigraphy and Paleontology	7	0	0	7	
336			Mineralogy, Petrology and Study of Mineral Deposit	12	0	0	12	
337			Geochemistry	17	3	0	20	
			Earth Science total	110	6	0	116	
341	C H E M I S T R Y		Physical Chemistry	125	7	1	133	
342			Organic Chemistry	89	3	6	98	
343			Inorganic Chemistry	42	0	1	43	
344			Function, Properties and Materials in Chemistry	31	1	0	32	
345			Substance Transformation	2	0	1	3	
346			Separation, Refining and Identification	31	4	1	36	
			Chemistry total	320	15	10	345	
351	B I O L O G Y		Genetics	44	0	0	44	
352			Ecology	72	11	0	83	
353			Plant Physiology	104	4	0	108	
354			Morphology, Structure of Organism	11	2	0	13	
355			Animal Physiology and Metabolism	29	2	0	31	
356			Morphology and Taxonomy	30	3	0	33	
			Biology total	290	22	0	312	
361			Physical Anthropology (inclu. Physiological Anthropology)	13	1	0	14	
			SCIENCE Total	1,242	72	65	1,379	
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	42	0	0	42	
402			Surface Physics	19	0	0	19	
403			Applied Optics and Quantum Optics	42	0	2	44	
404			General Applied Physics	18	0	3	21	
405			Fundamentals of Engineering	9	0	2	11	
				Applied Physics-Fundamentals of Engineering total	130	0	7	137
411				Materials for Machines and Strength of Materials	83	0	21	104
412				Workshop Processes and Production Engineering	45	4	14	63
413				Design Engineering, Machine Elements and Tribology	17	0	12	29
414				Fluid Mechanics	78	2	17	97
415				Heat Engineering	58	0	18	76
416			Mechanics and Control Engineering	60	0	15	75	
417			Intelligent Mechanics and Machine System	48	2	2	52	
			Machine Engineering total	389	8	99	496	

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		
421	E		Electric Power Engineering and Electric Machinery	50	0	19	69		
422			Electronic and Electric Materials Engineering	46	0	3	49		
423			Electron Devices and Apparatus Engineering	52	0	5	57		
424			Information and Communication Engineering	176	6	20	202		
425			System Engineering	41	2	3	46		
427			Electronic Measurements	4	0	3	7		
428			Control Engineering	39	0	8	47		
			Electric and Electronic Engineering total	408	8	61	477		
431			N		Construction Materials and Dynamics in General Civil	22	3	5	30
432					Structural Engineering and Seismology	31	0	14	45
433	Ground Engineering	27			0	3	30		
434	Hydraulics and River Engineering	19			0	9	28		
435	Traffic Engineering and Regional Planning	25			0	3	28		
436	Civil Environmental System	21			6	1	28		
	Civil Engineering total	145	9	35	189				
441	G		Building Structure and Materials	61	0	0	61		
442			Building Science and Building Equipment	50	10	0	60		
443			City Planning and Building Planning	122	5	2	129		
444			Architectural History and Design	40	7	1	48		
	Architecture total	273	22	3	298				
451	E		Physical Metallurgy	19	0	0	19		
452			Inorganic Materials and Properties	24	0	0	24		
453			Composed Materials and Properties	22	0	5	27		
454			Structural and Functional Materials	33	0	3	36		
455			Metallurgy and Material Processing	32	0	1	33		
456			Metal Productive Engineering	3	0	0	3		
	Material Engineering total	133	0	9	142				
461	G		Chemical Engineering in General	43	0	9	52		
462			Reaction and Separation Engineering	24	0	2	26		
463			Catalyst and Chemical Process	8	0	0	8		
464			Bioengineering	23	0	0	23		
465			Industrial Analytical Chemistry	18	0	0	18		
			Process Engineering total	116	0	11	127		
471			Industrial Physical Chemistry	47	0	2	49		
472			Industrial Inorganic Chemistry	18	0	3	21		
473			Industrial Organic Chemistry	7	0	3	10		
474			Synthetic Chemistry	32	0	3	35		
475			Polymer Synthesis	36	0	3	39		
476			Polymer Structure and Property (inclu. Fiber)	37	11	2	50		
	Industrial Chemistry total	177	11	16	204				
481			Aeronautics	20	0	4	24		
482			Ship Engineering	21	0	1	22		
483			Marine Engineering	16	0	0	16		
484			Resource Development Engineering	1	0	2	3		
	Synthetic Engineering total	58	0	7	65				
	ENGINEERING Total		1,829	58	248	2,135			
501	U A L G T R U I R C		Plant Breeding	33	10	0	43		
502			Crop Science	18	12	0	30		
503			Horticulture and Landscape Architecture	81	14	0	95		
504			Plant Protection	20	12	0	32		

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
505			Sericultural Science and Economic Entomology	3	0	0	3
			Agriculture total	155	48	0	203
511			Plant Fertilizer and Manure and Soil Science	29	14	0	43
512			Applied Microbiochemistry and Applied Biochemistry	86	10	0	96
513	A		Biological Productive Chemistry and Bioorganic Chemistry	27	3	0	30
514	G		Food Science and Nutritional Chemistry	140	59	0	199
	R		Agricultural Chemistry total	282	86	0	368
521			Forestry	31	1	0	32
522	I		Wood Science	29	0	0	29
			Forestry total	60	1	0	61
531	C		Fisheries in General	11	0	0	11
532			Fisheries Chemistry	14	0	0	14
	U		Fisheries total	25	0	0	25
541	L		Agricultural Economics	43	13	0	56
551	T		Irrigation, Drainage and Reclamation Engineering and Agricultural Machinery	16	34	0	50
552				9	17	0	26
553	U		Biological Environment	19	0	0	19
			Agricultural Engineering total	44	51	0	95
561	R		Animal Science and Grassland Science	11	14	0	25
562	E		Applied Animal Science	6	9	0	15
563			Basic Veterinary Medicine and Basic Animal Science	52	5	0	57
564			Applied Veterinary Medicine	35	1	0	36
			Animal Science-Veterinary Medicine total	104	29	0	133
571			Biological Resource Science	6	0	0	6
572			Applied Molecular Cell Biology	6	0	0	6
			Interdisciplinary Agricultural Science total	12	0	0	12
			AGRICULTURE Total	725	228	0	953
601			Anatomy in General (inclu. Histology, Embryology)	78	10	0	88
602			Physiology in General	74	15	0	89
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional	69	18	0	87
604			Pharmacology in General	80	0	0	80
605			Medical Chemistry in General	76	4	0	80
606	M		Pathological Medical Chemistry	35	0	0	35
			Physiology total	412	47	0	459
611	E		Hominal Pathology	93	4	0	97
612			Experimental Pathology	74	6	0	80
613	D		Parasitology (inclu. Medical Zoology)	36	3	0	39
614	I		Bacteriology (inclu. Eumycetes)	53	14	0	67
615			Virology	34	3	0	37
616	C		Immunology	47	11	0	58
			Pathology total	337	41	0	378
621	I		Hygiene	64	10	0	74
622	N		Public Health and Health Science	196	72	0	268
623			Legal Medicine	55	0	0	55
	E		Social Medicine total	315	82	0	397
631			Internal Medicine in General	94	13	0	107
632			Gastroenterology	117	0	0	117
633			Internal Medicine Respiratory System	63	0	0	63
634			Neurological Medicine	64	5	0	69
635			Cardioangiology	156	2	0	158
636			Pediatrics	139	7	0	146

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	
637	M E D I C I N E		Dermatology	115	0	0	115	
638			Radiology	84	13	0	97	
639			Neuropsychiatry	107	6	0	113	
641			Hematology	76	3	0	79	
642			Internal Medicine of Kidney	47	3	0	50	
643			Embryology and Newborn Medicine	16	0	0	16	
644			Endocrinology	11	0	0	11	
645			Metabolic Science	28	1	0	29	
			Internal Medicine total	1,117	53	0	1,170	
651				Surgery in General	86	4	0	90
652				Gastroenterological Surgery	138	2	0	140
653				Thoracic Surgery	61	1	0	62
654				Neurosurgery	100	0	0	100
655				Orthopedic Surgery	133	20	0	153
656				Anesthesiology and Rescue Medicine	87	0	0	87
657				Urology	72	0	0	72
658				Obstetrics and Gynecology	98	6	0	104
659				Oto-rhino-laryngology	114	10	0	124
660				Ophthalmology	82	0	0	82
661				Pediatric Surgery	17	0	0	17
662				Formative Surgery	10	0	0	10
				Surgery total	998	43	0	1,041
671						Oral Anatomy and Morphological Basic Dentistry	28	2
672		Functional Basic Dentistry	16			5	0	21
673		Morbid Dentistry (inclu. Dental Radiology)	22			0	0	22
674	Conservative Dentistry	29	5			0	34	
675	Prosthodontics and Dental Technology	30	0			0	30	
676	Oral Surgery	62	0			0	62	
677	Orthodontics, Pedodontics and Social Dentistry	14	5			0	19	
678	Periodontological Dentistry	12	0			0	12	
	Dentistry total	213	17	0	230			
681			Chemical Pharmaceuticals	86	0	0	86	
682			Physical Pharmaceuticals	49	0	3	52	
683			Biopharmaceutics	103	1	0	104	
684			Molecular Pharmaceuticals	7	0	0	7	
685			Environmental Pharmaceuticals	1	0	0	1	
	Pharmaceutics total	246	1	3	250			
691			Medical Sociology	33	2	0	35	
692			Human Genetics	4	1	0	5	
693			Applied Pharmacology and Medical Pharmacology	9	0	0	9	
694			Pathological Examination	35	26	0	61	
696			Science of Basic and Local Nursing	208	165	0	373	
697			Science of Clinical Nursing	232	178	0	410	
			Medicine in General total	521	372	0	893	
	MEDICINE Total	4,159	656	3	4,818			
702	I N T E R D I S C I P L I N A		History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	21	0	1	22	
703			Physical Education	146	43	6	195	
704			Human Geography	55	0	3	58	
705			Physical Geography	29	0	0	29	
			Geography total	84	0	3	87	
706			Home Science (inclu. Cloth/Living Environments)	36	43	0	79	
707			Food Culture	57	41	0	98	

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	
	R Y A R E A		Domestic Science total	93	84	0	177	
708			Science of Cultural Property	0	0	0	0	
711			Science Education	11	1	4	16	
712			Educational Engineering	23	4	7	34	
713			Curriculum Studies	25	14	5	44	
714			Japanese Language Education	15	0	0	15	
	I N T E R D I S C I P L I N A R Y A R E A		Science Education· Curriculum Education total	74	19	16	109	
721			Statistics	12	3	0	15	
731			Computer Science	97	4	3	104	
732			Intelligent Informatics	114	11	0	125	
733			Study of Information System (Inclu. Library and Information)	69	13	3	85	
				Information Science total	280	28	6	314
741				Social System Engineering	42	5	0	47
751				Natural Disaster Science	6	0	3	9
761				Plasma Science and Technology	20	2	4	26
772				Nuclear Fusion	5	0	2	7
773				Energy Science General	15	0	0	15
774				Nuclear Power Science	0	0	0	0
				Energy total	20	0	2	22
801				Environmental Dynamic Analysis	22	2	3	27
802				Environmental Influence Assessment (inclu. Radiobiology)	33	9	0	42
803				Environmental Preservation	40	8	0	48
				Environmental Science total	95	19	3	117
811				Biological Organic Chemistry	29	1	0	30
812				Structured Biochemistry	63	1	0	64
813				Functional Biochemistry	61	11	0	72
				Biological Chemistry total	153	13	0	166
821				Biophysics	44	0	1	45
822				Molecular Biology	99	4	0	103
823				Cell Biology	72	2	0	74
824			Developmental Biology	33	0	0	33	
			Basic Biology total	248	6	1	255	
831			Neuroanatomy and Neuropathology	38	6	0	44	
832			Neurochemistry and Neuropharmacology	21	3	0	24	
833			Neuro Science in General	44	9	0	53	
834			Neuro and Muscular Physiology	34	4	0	38	
			Neuro Science (inclu. Brain Science) total	137	22	0	159	
841			Laboratory Animal Science	22	0	0	22	
851			Medical Organism Engineering and Material Science of Organism	33	5	9	47	
			INTERDISCIPLINARY AREA Total	1,486	249	54	1,789	
999			WIDE AREA Total	124	23	2	149	
			Item n.a. Total	72	31	2	105	
			Grand Total	13,070	1,977	433	15,480	

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	
211	ARTS · HUMANITIES		Philosophy	788	177	0	0	965	
212			Chinese Philosophy	173	18	0	0	191	
213			Indian Philosophy (inclu. Buddhist Studies)	492	119	0	41	652	
214			Religion	495	122	2	2	621	
215			Ethics	192	30	1	0	223	
216			History of Philosophy	321	43	0	9	373	
217			Aesthetics (inclu. Arts)	1,182	703	1	1	1,887	
218			Art History	366	57	0	7	430	
			Philosophy total		4,009	1,269	4	60	5,342
221			Experimental Psychology	638	106	0	6	750	
222			Educational and Social Psychology	2,018	837	1	5	2,861	
223			Sociology (inclu. Social Welfare)	2,601	734	0	12	3,347	
224			Education	1,850	1,081	2	19	2,952	
225			Cultural Anthropology (inclu. Ethnology and Folklore)	763	162	0	0	925	
			Psychology · Sociology · Education Cultural Anthropology total		7,870	2,920	3	42	10,835
231			Japanese History	827	157	1	24	1,009	
232			Oriental History	488	39	0	7	534	
233			European History	689	105	2	3	799	
234			Archaeology (inclu. Prehistory)	287	27	0	26	340	
			History total		2,291	328	3	60	2,682
241			Japanese Language	547	156	0	0	703	
242			Japanese Literature	1,578	696	3	0	2,277	
243			Chinese Language and Literature	585	45	0	0	630	
244			English Language and Literature	4,211	1,504	2	0	5,717	
245			French Language and Literature	719	87	0	2	808	
246			German Language and Literature	878	32	0	0	910	
247			Other Foreign Languages and Literatures	398	25	0	0	423	
248			Linguistics and Phonetics	1,347	366	1	2	1,716	
249	Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	347	76	0	2	425			
	Literature total		10,610	2,987	6	6	13,609		
	ARTS · HUMANITIES Total		24,780	7,504	16	168	32,468		
261	LAW		Basic Science of Law	344	45	0	0	389	
262			Public Law	587	85	0	2	674	
263			International Law	388	9	0	0	397	
264			Civil Law	1,007	86	0	7	1,100	
265			Social Law	199	16	0	3	218	
266			Criminal Law	311	22	0	3	336	
267			Politics	1,251	86	0	0	1,337	
	LAW Total		4,087	349	0	15	4,451		
271	ECONOMICS		General Theory of Economics	1,312	108	0	0	1,420	
272			Economical Statistics	266	18	0	0	284	
273			Economic Policy (inclu. Economic Condition)	1,595	111	0	6	1,712	
274			Economic History	605	36	0	4	645	
275			Public Finance, Money and Banking	755	65	0	0	820	
276			Commercial Science	711	115	0	0	826	
277			Business Administration	1,737	382	0	0	2,119	
278			Accounting	1,013	193	0	0	1,206	
	ECONOMICS Total		7,994	1,028	0	10	9,032		
301	SCIENCE		Algebra	309	12	0	0	321	
302			Geometry	226	16	1	0	243	
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	426	37	2	2	467	
305			Basic Analysis	198	10	0	0	208	

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
306	E		Larger-area Analysis	59	2	0	0	61
			Mathematics total	1,218	77	3	2	1,300
311			Astronomy	97	13	0	0	110
321			Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	544	73	0	0	617
322			Solid State Physics I (Optical Properties, Semiconductor and Dielectrics)	336	6	5	3	350
323			Solid State Physics II (Magnetism, Metal Physics,	301	15	0	0	316
324			Physical Properties in General (inclu. Basic Theories)	302	26	1	1	330
325			Physics in General	235	17	1	0	253
			Physics total	1,718	137	7	4	1,866
331			Physics of Solid Earth	68	8	0	2	78
332	S		Meteorology, Oceanography and Hydrology	111	8	0	0	119
333	C		Aeronomy	48	2	0	0	50
334			Geology	75	6	0	11	92
335	I		Stratigraphy and Paleontology	30	5	0	4	39
336	E		Mineralogy, Petrology and Study of Mineral Deposit	66	0	0	0	66
337			Geochemistry	69	7	0	0	76
	N		Earth Science total	467	36	0	17	520
341			Physical Chemistry	419	20	0	2	441
342	C		Organic Chemistry	410	13	2	43	468
343			Inorganic Chemistry	189	9	0	0	198
344	E		Function, Properties and Materials in Chemistry	190	15	0	0	205
345			Substance Transformation	16	0	0	0	16
346			Separation, Refining and Identification	173	9	0	0	182
			Chemistry total	1,397	66	2	45	1,510
351			Genetics	74	14	0	3	91
352			Ecology	215	63	0	39	317
353			Plant Physiology	117	18	0	3	138
354			Morphology, Structure of Organism	93	14	0	12	119
355			Animal Physiology and Metabolism	108	12	0	5	125
356			Morphology and Taxonomy	132	18	0	33	183
			Biology total	739	139	0	95	973
361			Physical Anthropology (inclu. Physiological Anthropology)	76	8	0	1	85
			SCIENCE Total	5,712	476	12	164	6,364
401			Applied Physics of Property and Crystallography	139	7	3	3	152
402			Surface Physics	125	4	0	0	129
403			Applied Optics and Quantum Optics	233	10	0	0	243
404			General Applied Physics	83	11	0	9	103
405			Fundamentals of Engineering	69	7	0	0	76
			Applied Physics-Fundamentals of Engineering total	649	39	3	12	703
411	E		Materials for Machines and Strength of Materials	538	27	6	0	571
412	N		Workshop Processes and Production Engineering	467	10	6	0	483
413	E		Design Engineering, Machine Elements and Tribology	253	21	2	1	277
414			Fluid Mechanics	493	22	0	0	515
415			Heat Engineering	475	21	1	0	497
416			Mechanics and Control Engineering	388	28	2	0	418
417			Intelligent Mechanics and Machine System	263	29	0	0	292
			Machine Engineering total	2,877	158	17	1	3,053

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
421			Electric Power Engineering and Electric Machinery	525	25	8	0	558
422			Electronic and Electric Materials Engineering	471	24	0	8	503
423			Electron Devices and Apparatus Engineering	464	27	0	3	494
424			Information and Communication Engineering	985	95	7	1	1,088
425			System Engineering	272	27	2	2	303
427			Electronic Measurements	237	13	8	0	258
428			Control Engineering	160	11	9	0	180
			Electric and Electronic Engineering total	3,114	222	34	14	3,384
431			Construction Materials and Dynamics in General Civil	217	5	1	0	223
432			Structural Engineering and Seismology	291	22	0	0	313
433			Ground Engineering	249	7	0	0	256
434			Hydraulics and River Engineering	228	7	0	3	238
435			Traffic Engineering and Regional Planning	219	18	0	0	237
436	E		Civil Environmental System	173	4	0	1	178
			Civil Engineering total	1,377	63	1	4	1,445
441	N		Building Structure and Materials	652	23	0	0	675
442	G		Building Science and Building Equipment	305	43	0	3	351
443	I		City Planning and Building Planning	795	145	0	0	940
444	N		Architectural History and Design	361	82	0	0	443
			Architecture total	2,113	293	0	3	2,409
451	E		Physical Metallurgy	100	4	0	4	108
452	E		Inorganic Materials and Properties	255	4	0	3	262
453	R		Composed Materials and Properties	92	3	0	0	95
454	I		Structural and Functional Materials	124	11	1	8	144
455	N		Metallurgy and Material Processing	193	19	2	5	219
456	G		Metal Productive Engineering	53	11	0	0	64
			Material Engineering total	817	52	3	20	892
461			Chemical Engineering in General	117	4	0	0	121
462			Reaction and Separation Engineering	91	0	0	1	92
463			Catalyst and Chemical Process	59	3	0	1	63
464			Bioengineering	112	2	0	0	114
465			Industrial Analytical Chemistry	57	0	0	0	57
			Process Engineering total	436	9	0	2	447
471			Industrial Physical Chemistry	125	3	0	6	134
472			Industrial Inorganic Chemistry	86	0	0	0	86
473			Industrial Organic Chemistry	124	8	0	0	132
474			Synthetic Chemistry	125	2	0	9	136
475			Polymer Synthesis	151	5	0	0	156
476			Polymer Structure and Property (inclu. Fiber)	177	69	0	0	246
			Industrial Chemistry total	788	87	0	15	890
481			Aeronautics	127	0	0	0	127
482			Ship Engineering	43	3	0	0	46
483			Marine Engineering	36	0	0	0	36
484			Resource Development Engineering	26	0	0	0	26
			Synthetic Engineering total	232	3	0	0	235
			ENGINEERING Total	12,403	926	58	71	13,458
501	A		Plant Breeding	49	7	0	18	74
502	T		Crop Science	42	7	0	2	51
503	G		Horticulture and Landscape Architecture	173	67	0	0	240
504	R		Plant Protection	76	9	0	1	86

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
505	E	U	Sericultural Science and Economic Entomology	26	5	0	12	43
			Agriculture total	366	95	0	33	494
511			Plant Fertilizer and Manure and Soil Science	62	15	0	0	77
512			Applied Microbiochemistry and Applied Biochemistry	342	100	0	35	477
513			Biological Productive Chemistry and Bioorganic Chemistry	61	13	0	6	80
514			Food Science and Nutritional Chemistry	497	537	0	13	1,047
			Agricultural Chemistry total	962	665	0	54	1,681
521	R		Forestry	55	12	0	0	67
522			Wood Science	18	0	0	2	20
			Forestry total	73	12	0	2	87
531			Fisheries in General	201	24	0	4	229
532			Fisheries Chemistry	56	25	0	3	84
			Fisheries total	257	49	0	7	313
541	U		Agricultural Economics	252	37	0	0	289
551	L		Irrigation, Drainage and Reclamation Engineering and Agricultural Machinery	68	9	0	2	79
552				37	16	0	0	53
553	T		Biological Environment	23	0	0	0	23
			Agricultural Engineering total	128	25	0	2	155
561			Animal Science and Grassland Science	124	11	0	0	135
562			Applied Animal Science	87	7	0	4	98
563	E		Basic Veterinary Medicine and Basic Animal Science	244	6	0	26	276
564			Applied Veterinary Medicine	207	2	0	25	234
			Animal Science-Veterinary Medicine total	662	26	0	55	743
571			Biological Resource Science	24	11	0	6	41
572			Applied Molecular Cell Biology	33	5	0	0	38
			Interdisciplinary Agricultural Science total	57	16	0	6	79
			AGRICULTURE Total	2,757	925	0	159	3,841
601			Anatomy in General (inclu. Histology, Embryology)	411	34	0	9	454
602			Physiology in General	382	60	0	0	442
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional	293	87	0	1	381
604			Pharmacology in General	364	15	0	6	385
605			Medical Chemistry in General	261	34	0	11	306
606			Pathological Medical Chemistry	111	19	0	7	137
			Physiology total	1,822	249	0	34	2,105
611	M		Hominal Pathology	471	17	0	9	497
612			Experimental Pathology	146	20	0	26	192
613			Parasitology (inclu. Medical Zoology)	148	8	0	1	157
614	D		Bacteriology (inclu. Eumycetes)	280	29	0	21	330
615			Virology	112	2	0	28	142
616			Immunology	343	16	0	26	385
			Pathology total	1,500	92	0	111	1,703
621	I		Hygiene	274	28	0	19	321
622			Public Health and Health Science	657	242	0	8	907
623	N		Legal Medicine	202	3	0	0	205
			Social Medicine total	1,133	273	0	27	1,433
631	E		Internal Medicine in General	471	26	0	3	500
632			Gastroenterology	623	0	0	13	636
633			Internal Medicine Respiratory System	281	0	0	5	286
634			Neurological Medicine	337	17	0	4	358
635			Cardioangiology	741	14	0	17	772
636			Pediatrics	502	31	0	6	539
637			Dermatology	297	3	0	0	300

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
638			Radiology	488	31	0	9	528
639			Neuropsychiatry	564	18	0	3	585
641			Hematology	322	2	0	2	326
642			Internal Medicine of Kidney	248	4	0	2	254
643			Embryology and Newborn Medicine	39	0	0	0	39
644			Endocrinology	159	5	0	0	164
645			Metabolic Science	156	5	0	0	161
			Internal Medicine total	5,228	156	0	64	5,448
651			Surgery in General	533	1	0	2	536
652			Gastroenterological Surgery	591	5	0	12	608
653			Thoracic Surgery	380	0	0	7	387
654			Neurosurgery	399	0	0	2	401
655			Orthopedic Surgery	569	16	0	5	590
656			Anesthesiology and Rescue Medicine	381	0	0	2	383
657			Urology	364	2	0	6	372
658			Obstetrics and Gynecology	424	7	0	0	431
659			Oto-rhino-laryngology	351	5	0	4	360
660			Ophthalmology	352	0	0	2	354
661			Pediatric Surgery	76	1	0	0	77
662			Formative Surgery	105	0	0	0	105
			Surgery total	4,525	37	0	42	4,604
671			Oral Anatomy and Morphological Basic Dentistry	558	5	0	0	563
672			Functional Basic Dentistry	436	9	0	0	445
673			Morbid Dentistry (inclu. Dental Radiology)	291	6	0	0	297
674			Conservative Dentistry	621	13	0	0	634
675			Prosthodontics and Dental Technology	888	10	0	0	898
676			Oral Surgery	726	10	0	2	738
677			Orthodontics, Pedodontics and Social Dentistry	730	29	0	0	759
678			Periodontological Dentistry	94	1	0	0	95
			Dentistry total	4,344	83	0	2	4,429
681			Chemical Pharmaceutics	945	10	0	22	977
682			Physical Pharmaceutics	350	0	0	2	352
683			Biopharmaceutics	1,228	11	0	36	1,275
684			Molecular Pharmaceutics	80	0	0	3	83
685			Environmental Pharmaceutics	33	4	0	0	37
			Pharmaceutics total	2,636	25	0	63	2,724
691			Medical Sociology	137	9	0	4	150
692			Human Genetics	30	0	0	3	33
693			Applied Pharmacology and Medical Pharmacology	236	3	0	2	241
694			Pathological Examination	175	33	0	0	208
696			Science of Basic and Local Nursing	262	159	0	0	421
697			Science of Clinical Nursing	258	179	0	0	437
			Medicine in General total	1,098	383	0	9	1,490
			MEDICINE Total	22,286	1,298	0	352	23,936
702			History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	162	11	0	0	173
703			Physical Education	1,667	576	0	0	2,243
704			Human Geography	369	28	0	3	400
705			Physical Geography	132	12	0	0	144
			Geography total	501	40	0	3	544
706			Home Science(inclu. Cloth/Living Environments)	440	713	0	0	1,153
707			Food Culture	162	444	0	0	606
			Domestic Science total	602	1,157	0	0	1,759

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	
708	L I N		Science of Cultural Property	9	0	0	0	9	
711			Science Education	92	47	0	0	139	
712			Educational Engineering	256	139	10	0	405	
713			Curriculum Studies	464	393	3	0	860	
714			Japanese Language Education	177	30	0	19	226	
			Science Education· Curriculum Education total	989	609	13	19	1,630	
721	I N T E R D I S C I P L I N A R Y		Statistics	161	9	0	1	171	
731			Computer Science	732	113	6	0	851	
732			Intelligent Informatics	453	66	2	0	521	
733			Study of Information System (Inclu. Library and Information)	727	271	1	0	999	
				Information Science total	1,912	450	9	0	2,371
741				Social System Engineering	284	18	3	0	305
751				Natural Disaster Science	19	0	0	1	20
761				Plasma Science and Technology	142	3	0	0	145
772				Nuclear Fusion	28	3	0	0	31
773				Energy Science General	36	2	2	0	40
774			Nuclear Power Science	69	4	0	0	73	
			Energy total	133	9	2	0	144	
801			Environmental Dynamic Analysis	100	13	2	0	115	
802			Environmental Influence Assessment (inclu. Radiobiology)	113	16	4	7	140	
803			Environmental Preservation	179	14	0	5	198	
			Environmental Science total	392	43	6	12	453	
811			Biological Organic Chemistry	122	8	0	24	154	
812			Structured Biochemistry	174	6	0	10	190	
813			Functional Biochemistry	224	15	0	5	244	
			Biological Chemistry total	520	29	0	39	588	
821			Biophysics	154	5	0	1	160	
822			Molecular Biology	374	24	0	32	430	
823			Cell Biology	210	12	0	16	238	
824			Developmental Biology	109	2	0	3	114	
			Basic Biology total	847	43	0	52	942	
831			Neuroanatomy and Neuropathology	123	6	0	0	129	
832			Neurochemistry and Neuropharmacology	175	8	0	0	183	
833			Neuro Science in General	221	10	0	6	237	
834			Neuro and Muscular Physiology	149	26	0	0	175	
			Neuro Science (inclu. Brain Science) total	668	50	0	6	724	
841			Laboratory Animal Science	58	1	0	43	102	
851			Medical Organism Engineering and Material Science of Organism	301	23	0	0	324	
			INTERDISCIPLINARY AREA Total	9,367	3,071	33	176	12,647	
999			WIDE AREA Total	1,110	478	4	11	1,603	
			Item n.a. Total	252	119	2	1	374	
			Grand Total	90,748	16,174	125	1,127	108,174	

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	
211	ARTS · HUMANITIES	PHILOSOPHY	Philosophy	1,415	49	68	19	94	1,645	
212			Chinese Philosophy	303	5	17	7	22	354	
213			Indian Philosophy (inclu. Buddhist Studies)	624	49	34	22	57	786	
214			Religion	619	30	50	25	40	764	
215			Ethics	380	15	25	5	32	457	
216			History of Philosophy	471	24	21	13	52	581	
217			Aesthetics (inclu. Arts)	2,191	139	137	51	221	2,739	
218			Art History	639	28	53	26	64	810	
			Philosophy total		6,642	339	405	168	582	8,136
221		PSYCHOLOGY · SOCIOLOGY · EDUCATION	CULTURAL ANTHROPOLOGY	Experimental Psychology	931	156	298	77	82	1,544
222				Educational and Social Psychology	3,064	386	792	187	247	4,676
223				Sociology (inclu. Social Welfare)	3,120	297	667	208	305	4,597
224				Education	3,729	368	554	156	323	5,130
225				Cultural Anthropology (inclu. Ethnology and Folklore)	1,010	64	199	145	84	1,502
		Psychology · Sociology · Education Cultural Anthropology total		11,854	1,271	2,510	773	1,041	17,449	
231		HISTORY	HISTORY	Japanese History	1,380	80	107	22	160	1,749
232				Oriental History	763	34	70	54	59	980
233				European History	1,042	25	74	29	75	1,245
234	Archaeology (inclu. Prehistory)			480	39	87	76	33	715	
	History total				3,665	178	338	181	327	4,689
241	LANGUAGE AND LITERATURE	LANGUAGE AND LITERATURE	Japanese Language	985	36	65	6	79	1,171	
242			Japanese Literature	2,693	57	117	15	234	3,116	
243			Chinese Language and Literature	824	32	51	28	71	1,006	
244			English Language and Literature	6,576	266	303	87	530	7,762	
245			French Language and Literature	1,053	35	42	12	83	1,225	
246			German Language and Literature	1,348	46	74	29	86	1,583	
247			Other Foreign Languages and Literatures	618	25	39	22	61	765	
248			Linguistics and Phonetics	2,104	134	192	117	173	2,720	
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	505	18	22	9	65	619	
			Literature total		16,706	649	905	325	1,382	19,967
	ARTS · HUMANITIES Total		38,867	2,437	4,158	1,447	3,332	50,241		
261	LAW	LAW	Basic Science of Law	540	23	42	10	37	652	
262			Public Law	916	30	68	18	81	1,113	
263			International Law	470	13	51	15	40	589	
264			Civil Law	1,438	29	99	23	100	1,689	
265			Social Law	290	13	38	11	19	371	
266			Criminal Law	416	9	37	7	30	499	
267			Politics	1,618	71	144	94	137	2,064	
	LAW Total		5,688	188	479	178	444	6,977		
271	ECONOMICS	ECONOMICS	General Theory of Economics	1,763	94	235	103	155	2,350	
272			Economical Statistics	277	23	101	30	36	467	
273			Economic Policy (inclu. Economic Condition)	1,829	101	294	150	159	2,533	
274			Economic History	764	26	106	31	56	983	
275			Public Finance, Money and Banking	947	43	112	28	85	1,215	
276			Commercial Science	749	49	91	36	63	988	
277			Business Administration	1,957	147	288	112	175	2,679	
278			Accounting	1,285	48	120	37	92	1,582	
	ECONOMICS Total		9,571	531	1,347	527	821	12,797		
301	SCIENCE	SCIENCE	Algebra	743	36	72	23	39	913	
302			Geometry	650	28	84	32	42	836	
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	760	97	210	72	69	1,208	
305			Basic Analysis	480	24	69	35	35	643	
306			Larger-area Analysis	173	19	38	17	6	253	
			Mathematics total		2,806	204	473	179	191	3,853
311	ASTRONOMY	ASTRONOMY	Astronomy	166	103	186	137	25	617	
321			Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	450	373	744	606	137	2,310	

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			Solid State Physics I (Optical Properties, Semiconductor and Dielectrics)	372	462	409	66	71	1,380
323			Solid State Physics II (Magnetism, Metal Physics, Cryogenics)	302	463	489	135	85	1,474
324			Physical Properties in General (inclu. Basic Theories)	428	211	270	89	53	1,051
325			Physics in General	317	185	200	58	32	792
			Physics total	1,869	1,694	2,112	954	378	7,007
331			Physics of Solid Earth	277	163	240	93	37	810
332			Meteorology, Oceanography and Hydrology	276	155	213	102	31	777
333	S		Aeronomy	58	52	93	87	16	306
334			Geology	243	40	124	75	15	497
335	C		Stratigraphy and Paleontology	168	20	61	57	7	313
336	I		Mineralogy, Petrology and Study of Mineral Deposit	291	77	160	82	22	632
337			Geochemistry	148	107	137	66	36	494
			Earth Science total	1,461	614	1,028	562	164	3,829
341			Physical Chemistry	713	648	367	97	111	1,936
342	N		Organic Chemistry	576	636	280	54	79	1,625
343			Inorganic Chemistry	273	213	179	30	57	752
344	C		Function, Properties and Materials in Chemistry	296	262	191	24	55	828
345	E		Substance Transformation	30	19	28	3	2	82
346			Separation, Refining and Identification	232	196	122	18	37	605
			Chemistry total	2,120	1,974	1,167	226	341	5,828
351			Genetics	215	158	116	49	32	570
352			Ecology	588	148	277	175	41	1,229
353			Plant Physiology	294	204	177	70	43	788
354			Morphology, Structure of Organism	178	97	62	41	28	406
355			Animal Physiology and Metabolism	171	125	111	33	32	472
356			Morphology and Taxonomy	351	71	125	129	41	717
			Biology total	1,797	803	868	497	217	4,182
361			Physical Anthropology (inclu. Physiological Anthropology)	115	40	53	57	7	272
			SCIENCE Total	10,334	5,432	5,887	2,612	1,323	25,588
401			Applied Physics of Property and Crystallography	232	272	178	35	34	751
402			Surface Physics	162	196	108	27	19	512
403			Applied Optics and Quantum	313	275	200	30	35	853
404			General Applied Physics	135	108	69	12	27	351
405	E		Fundamentals of Engineering	107	36	74	14	9	240
			Applied Physics-Fundamentals of Engineering total	949	887	629	118	124	2,707
411	G		Materials for Machines and Strength of Materials	761	484	427	54	86	1,812
412	I		Workshop Processes and Production Engineering	527	393	298	27	66	1,311
413	N		Design Engineering, Machine Elements and Tribology	377	238	225	12	44	896
414			Fluid Mechanics	700	479	335	60	83	1,657
415	E		Heat Engineering	624	515	325	44	94	1,602
416			Mechanics and Control Engineering	597	344	276	22	60	1,299
417	E		Intelligent Mechanics and Machine System	425	297	211	22	83	1,038
			Machine Engineering total	4,011	2,750	2,097	241	516	9,615
421	I		Electric Power Engineering and Electric Machinery	586	345	369	31	79	1,410
422	N		Electronic and Electric Materials Engineering	464	547	324	55	88	1,478
423	G		Electron Devices and Apparatus Engineering	520	420	305	35	95	1,375
424			Information and Communication Engineering	1,308	776	533	75	177	2,869
425			System Engineering	333	187	160	30	59	769
427			Electronic Measurements	277	164	151	16	33	641
428			Control Engineering	371	157	141	26	23	718

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
			Electric and Electronic Engineering total	3,859	2,596	1,983	268	554	9,260
431			Construction Materials and Dynamics in General Civil Engineering	285	148	154	10	33	630
432			Structural Engineering and Seismology	376	199	226	22	43	866
433			Ground Engineering	343	191	233	41	57	865
434			Hydraulics and River Engineering	348	252	207	41	47	895
435			Traffic Engineering and Regional Planning	289	194	168	25	36	712
436			Civil Environmental System	203	162	159	25	32	581
	E		Civil Engineering total	1,844	1,146	1,147	164	248	4,549
441			Building Structure and Materials	609	328	374	44	78	1,433
442	N		Building Science and Building Equipment	304	169	250	22	33	778
443	G		City Planning and Building Planning	974	263	401	92	115	1,845
444			Architectural History and Design	509	74	95	32	50	760
			Architecture total	2,396	834	1,120	190	276	4,816
451			Physical Metallurgy	199	251	135	42	31	658
452			Inorganic Materials and Properties	317	370	219	46	49	1,001
453			Composed Materials and	116	97	105	12	22	352
454			Structural and Functional Materials	231	233	146	37	40	687
455	E		Metallurgy and Material Processing	340	243	197	28	45	853
456			Metal Productive Engineering	150	147	101	15	27	440
			Material Engineering total	1,353	1,341	903	180	214	3,991
461			Chemical Engineering in General	311	294	131	19	35	790
462			Reaction and Separation	201	211	79	24	22	537
463			Catalyst and Chemical Process	153	155	55	10	27	400
464			Bioengineering	223	263	132	16	32	666
465	N		Industrial Analytical Chemistry	116	132	48	10	20	326
			Process Engineering total	1,004	1,055	445	79	136	2,719
471			Industrial Physical Chemistry	279	254	112	24	44	713
472			Industrial Inorganic Chemistry	114	108	58	7	19	306
473			Industrial Organic Chemistry	145	155	47	18	28	393
474			Synthetic Chemistry	310	357	83	15	33	798
475			Polymer Synthesis	310	256	89	12	34	701
476			Polymer Structure and Property (inclu. Fiber)	338	315	188	45	43	929
			Industrial Chemistry total	1,496	1,445	577	121	201	3,840
481			Aeronautics	197	122	88	34	39	480
482			Ship Engineering	150	96	72	5	16	339
483			Marine Engineering	54	38	27	0	4	123
484			Resource Development Engineering	80	117	74	22	21	314
			Synthetic Engineering total	481	373	261	61	80	1,256
			ENGINEERING Total	17,393	12,427	9,162	1,422	2,349	42,753
501			Plant Breeding	141	129	68	27	26	391
502			Crop Science	164	107	40	26	22	359
503			Horticulture and Landscape Architecture	449	206	100	28	52	835
504			Plant Protection	215	163	92	29	26	525
505			Sericultural Science and Economic Entomology	60	48	30	7	5	150
	A		Agriculture total	1,029	653	330	117	131	2,260
511			Plant Fertilizer and Manure and Soil Science	187	133	58	54	39	471
512			Applied Microbiochemistry and Applied Biochemistry	561	502	358	84	105	1,610
513			Biological Productive Chemistry and Bioorganic Chemistry	141	133	100	29	33	436
514			Food Science and Nutritional Chemistry	679	523	450	63	108	1,823
			Agricultural Chemistry total	1,568	1,291	966	230	285	4,340
521			Forestry	350	165	140	68	27	750
522			Wood Science	192	198	94	30	41	555
			Forestry total	542	363	234	98	68	1,305
531			Fisheries in General	406	263	211	74	59	1,013
532			Fisheries Chemistry	147	144	85	21	18	415
			Fisheries total	553	407	296	95	77	1,428
541			Agricultural Economics	559	55	121	89	48	872

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	
551	AGRICULTURE		Irrigation, Drainage and Reclamation Engineering and Rural Agricultural Machinery	245	132	112	42	26	557	
552			Agricultural Machinery	141	138	76	15	21	391	
553			Biological Environment	95	50	30	9	16	200	
			Agricultural Engineering total	481	320	218	66	63	1,148	
561				Animal Science and Grassland Science	175	187	62	36	29	489
562				Applied Animal Science	143	129	64	33	25	394
563				Basic Veterinary Medicine and Basic Animal Science	227	294	163	56	41	781
564				Applied Veterinary Medicine	154	236	120	35	45	590
				Animal Science· Veterinary Medicine total	699	846	409	160	140	2,254
571				Biological Resource Science	60	47	52	27	12	198
572				Applied Molecular Cell Biology	38	49	30	7	15	139
				Interdisciplinary Agricultural Science total	98	96	82	34	27	337
	AGRICULTURE Total			5,529	4,031	2,656	889	839	13,944	
601	MEDICINE		Anatomy in General (inclu. Histology, Embryology)	325	429	184	89	57	1,084	
602			Physiology in General	328	441	180	71	49	1,069	
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional	203	223	226	45	45	742	
604			Pharmacology in General	190	429	110	58	57	844	
605			Medical Chemistry in General	198	393	190	74	41	896	
606			Pathological Medical Chemistry	99	115	96	40	14	364	
				Physiology total	1,343	2,030	986	377	263	4,999
611				Hominal Pathology	324	497	163	69	67	1,120
612				Experimental Pathology	142	296	136	46	32	652
613				Parasitology (inclu. Medical Zoology)	73	131	114	90	26	434
614				Bacteriology (inclu. Eumycetes)	165	299	165	53	45	727
615				Virology	107	207	150	63	32	559
616				Immunology	247	478	184	69	67	1,045
				Pathology total	1,058	1,908	912	390	269	4,537
621				Hygiene	166	222	193	61	33	675
622				Public Health and Health Science	572	528	655	112	135	2,002
623				Legal Medicine	157	244	83	27	29	540
				Social Medicine total	895	994	931	200	197	3,217
631				Internal Medicine in General	291	485	167	51	72	1,066
632				Gastroenterology	408	776	126	56	95	1,461
633				Internal Medicine Respiratory System	189	419	91	29	47	775
634				Neurological Medicine	252	407	134	50	61	904
635				Cardioangiology	471	910	176	63	103	1,723
636				Pediatrics	438	561	231	69	82	1,381
637				Dermatology	266	370	100	41	77	854
638				Radiology	434	724	196	34	92	1,480
639				Neuropsychiatry	510	557	236	70	93	1,466
641				Hematology	274	352	167	45	38	876
642				Internal Medicine of Kidney	151	273	80	27	20	551
643				Embryology and Newborn Medicine	15	45	10	3	3	76
644			Endocrinology	109	242	66	25	20	462	
645			Metabolic Science	120	229	57	26	37	469	
			Internal Medicine total	3,928	6,350	1,837	589	840	13,544	
651			Surgery in General	308	569	95	24	95	1,091	
652			Gastroenterological Surgery	390	745	91	51	121	1,398	
653			Thoracic Surgery	274	420	68	26	67	855	
654			Neurosurgery	312	515	122	27	102	1,078	
655			Orthopedic Surgery	451	762	170	59	108	1,550	
656			Anesthesiology and Rescue Medicine	419	488	74	38	77	1,096	
657			Urology	268	447	106	31	69	921	
658			Obstetrics and Gynecology	332	579	103	43	68	1,125	
659			Oto-rhino-laryngology	320	477	87	29	57	970	
660			Ophthalmology	256	446	91	55	52	900	
661			Pediatric Surgery	66	133	13	4	12	228	
662			Formative Surgery	53	96	14	4	20	187	
			Surgery total	3,449	5,677	1,034	391	848	11,399	

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		
671	M E D I C I N E		Oral Anatomy and Morphological Basic Dentistry	273	439	129	48	49	938		
672			Functional Basic Dentistry	162	419	93	34	32	740		
673			Morbid Dentistry (inclu. Dental Radiology)	171	277	36	16	40	540		
674			Conservative Dentistry	271	676	69	58	74	1,148		
675			Prosthodontics and Dental Technology	425	918	126	52	112	1,633		
676			Oral Surgery	509	862	127	53	89	1,640		
677			Orthodontics, Pedodontics and Social Dentistry	388	805	151	71	110	1,525		
678			Periodontological Dentistry	45	142	10	8	30	235		
			Dentistry total	2,244	4,538	741	340	536	8,399		
681	C H E M I S T R Y		Chemical Pharmaceutics	390	696	320	108	80	1,594		
682			Physical Pharmaceutics	162	274	112	27	48	623		
683			Biopharmaceutics	507	853	428	103	123	2,014		
684			Molecular Pharmaceutics	54	77	45	10	13	199		
685			Environmental Pharmaceutics	15	21	15	4	3	58		
			Pharmaceutics total	1,128	1,921	920	252	267	4,488		
691	E N V I R O N M E N T A L S C I E N C E		Medical Sociology	125	83	60	12	34	314		
692			Human Genetics	32	50	62	19	3	166		
693			Applied Pharmacology and Medical Pharmacology	107	212	95	16	21	451		
694			Pathological Examination	126	255	107	21	20	529		
696			Science of Basic and Local Nursing	394	395	303	11	94	1,197		
697			Science of Clinical Nursing	571	484	256	24	93	1,428		
			Medicine in General total	1,355	1,479	883	103	265	4,085		
			MEDICINE Total	15,400	24,897	8,244	2,642	3,485	54,668		
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)	230	14	34	11	28	317		
703			Physical Education	1,879	637	952	98	213	3,779		
704			Human Geography	678	18	84	61	47	888		
705			Physical Geography	221	26	79	62	12	400		
					Geography total	899	44	163	123	59	1,288
706			Home Science(inclu. Cloth/Living Environments)	712	295	424	34	69	1,534		
707			Food Culture	298	213	226	18	39	794		
					Domestic Science total	1,010	508	650	52	108	2,328
708			Science of Cultural Property	18	11	19	10	1	59		
711			Science Education	209	60	72	14	19	374		
712			Educational Engineering	331	167	164	21	27	710		
713			Curriculum Studies	1,549	173	235	47	119	2,123		
714			Japanese Language Education	309	58	79	24	45	515		
					Science Education·Curriculum Education total	2,398	458	550	106	210	3,722
721			Statistics	235	46	116	15	20	432		
731			Computer Science	1,101	553	452	71	114	2,291		
732			Intelligent Informatics	779	456	378	44	81	1,738		
733			Study of Information System (Inclu. Library and Information Science)	872	241	240	40	125	1,518		
					Information Science total	2,752	1,250	1,070	155	320	5,547
741			Social System Engineering	321	89	139	32	33	614		
751			Natural Disaster Science	59	32	19	11	4	125		
761	Plasma Science and Technology	189	326	183	63	32	793				
772	Nuclear Fusion	47	131	85	35	14	312				
773	Energy Science General	71	43	27	15	10	166				
774	Nuclear Power Science	108	117	120	23	21	389				
			Energy total	226	291	232	73	45	867		
801	Environmental Dynamic Analysis	122	110	128	48	24	432				
802	Environmental Influence Assessment (inclu. Radiobiology)	124	148	126	30	33	461				
803	Environmental Preservation	201	146	147	38	46	578				
			Environmental Science total	447	404	401	116	103	1,471		
811	Biological Organic Chemistry	157	198	136	38	26	555				
812	Structured Biochemistry	129	184	195	54	33	595				
813	Functional Biochemistry	258	261	193	50	27	789				
			Biological Chemistry total	544	643	524	142	86	1,939		
821	Biophysics	208	146	211	54	39	658				

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
822	I		Molecular Biology	522	699	349	149	127	1,846
823	N		Cell Biology	241	369	191	70	69	940
824	T		Developmental Biology	194	199	125	49	39	606
	A E		Basic Biology total	1,165	1,413	876	322	274	4,050
831	R R		Neuroanatomy and Neuropathology	114	168	73	42	16	413
832	Y D		Neurochemistry and Neuropharmacology	69	184	96	27	12	388
833	A S		Neuro Science in General	214	262	191	57	52	776
834	R C		Neuro and Muscular Physiology	153	205	79	39	25	501
	E I		Neuro Science (inclu. Brain Science) total	550	819	439	165	105	2,078
841	A P		Laboratory Animal Science	50	76	79	18	23	246
851	I N		Medical Organism Engineering and Material Science of Organism	216	295	341	49	54	955
			INTERDISCIPLINARY AREA Total	13,188	7,356	6,787	1,561	1,718	30,610
999			WIDE AREA Total	1,383	369	334	132	236	2,454
			Item n.a. Total	333	214	143	16	62	768
			Grand Total	117,686	57,882	39,197	11,426	14,609	240,800

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	499	17	15	8	31	570
212			Chinese Philosophy	117	2	6	1	9	135
213			Indian Philosophy (inclu. Buddhist Studies)	94	2	9	6	11	122
214			Religion	100	5	9	6	8	128
215			Ethics	179	5	13	2	11	210
216			History of Philosophy	131	4	6	2	20	163
217			Aesthetics (inclu. Arts)	540	21	29	16	62	668
218			Art History	255	17	20	19	18	329
			Philosophy total	1,915	73	107	60	170	2,325
221			Experimental Psychology	418	92	112	43	37	702
222			Educational and Social Psychology	1,051	149	243	76	69	1,588
223			Sociology (inclu. Social Welfare)	576	39	120	51	45	831
224			Education	1,418	134	224	70	89	1,935
225			Cultural Anthropology (inclu. Ethnology and Folklore)	324	15	69	56	31	495
		Psychology · Sociology · Education Cultural Anthropology total	3,787	429	768	296	271	5,551	
231			Japanese History	513	38	35	9	54	649
232			Oriental History	308	11	31	28	17	395
233			European History	321	7	22	9	15	374
234	Archaeology (inclu. Prehistory)		262	23	37	30	14	366	
	History total		1,404	79	125	76	100	1,784	
241		Japanese Language	335	18	23	2	24	402	
242		Japanese Literature	593	8	21	5	52	679	
243		Chinese Language and Literature	267	9	13	8	23	320	
244		English Language and Literature	1,399	38	50	19	81	1,587	
245		French Language and Literature	317	15	8	4	18	362	
246		German Language and Literature	518	10	24	10	28	590	
247		Other Foreign Languages and Literatures	255	8	13	11	18	305	
248		Linguistics and Phonetics	655	38	58	53	48	852	
249		Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	153	5	5	2	13	178	
	Literature total	4,492	149	215	114	305	5,275		
	ARTS · HUMANITIES Total	11,598	730	1,215	546	846	14,935		
261	LAW		Basic Science of Law	183	8	19	5	17	232
262			Public Law	298	8	17	12	28	363
263			International Law	133	1	16	9	11	170
264			Civil Law	426	10	38	10	22	506
265			Social Law	110	3	10	2	5	130
266			Criminal Law	126	1	9	1	11	148
267			Politics	459	14	51	37	31	592
	LAW Total	1,735	45	160	76	125	2,141		
271	ECONOMICS		General Theory of Economics	504	29	85	39	53	710
272			Economical Statistics	95	6	27	15	13	156
273			Economic Policy (inclu. Economic Condition)	444	21	83	48	34	630
274			Economic History	218	1	29	9	7	264
275			Public Finance, Money and Banking	217	8	32	7	18	282
276			Commercial Science	79	4	12	7	10	112
277			Business Administration	288	16	48	28	30	410
278			Accounting	207	7	28	8	22	272
			ECONOMICS Total	2,052	92	344	161	187	2,836
301	SCIENCE		Algebra	454	15	37	16	22	544
302			Geometry	434	18	52	23	21	548
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	420	56	116	43	35	670
305			Basic Analysis	296	13	48	23	20	400
306			Larger-area Analysis	125	14	26	11	4	180
			Mathematics total	1,729	116	279	116	102	2,342
311		Astronomy	121	95	135	117	21	489	
321		Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	260	301	467	476	89	1,593	

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			Solid State Physics I (Optical Properties, Semiconductor and Dielectrics)	230	340	266	54	52	942
323			Solid State Physics II (Magnetism, Metal Physics, Cryogenics)	206	350	346	101	68	1,071
324			Physical Properties in General (inclu. Basic Theories)	251	161	165	67	30	674
325			Physics in General	177	135	124	44	18	498
			Physics total	1,124	1,287	1,368	742	257	4,778
331			Physics of Solid Earth	241	148	208	82	35	714
332			Meteorology, Oceanography and Hydrology	219	133	171	90	22	635
333	S		Aeronomy	49	45	73	75	14	256
334			Geology	187	26	93	55	8	369
335	C		Stratigraphy and Paleontology	146	18	50	47	6	267
336	I		Mineralogy, Petrology and Study of Mineral Deposit	250	73	135	76	20	554
337			Geochemistry	115	92	108	56	27	398
	E		Earth Science total	1,207	535	838	481	132	3,193
341			Physical Chemistry	485	499	235	65	78	1,362
342	N		Organic Chemistry	360	445	162	37	55	1,059
343			Inorganic Chemistry	184	172	103	15	37	511
344	C		Function, Properties and Materials in Chemistry	183	204	142	18	44	591
345	E		Substance Transformation	20	18	21	2	2	63
346			Separation, Refining and Identification	150	127	70	12	28	387
			Chemistry total	1,382	1,465	733	149	244	3,973
351			Genetics	172	132	74	34	23	435
352			Ecology	399	103	175	123	29	829
353			Plant Physiology	205	158	104	46	29	542
354			Morphology, Structure of Organism	111	74	37	30	22	274
355			Animal Physiology and Metabolism	122	84	66	25	19	316
356			Morphology and Taxonomy	253	45	82	94	27	501
			Biology total	1,262	596	538	352	149	2,897
361			Physical Anthropology (inclu. Physiological Anthropology)	69	30	25	44	5	173
			SCIENCE Total	6,894	4,124	3,916	2,001	910	17,845
401			Applied Physics of Property and Crystallography	176	206	118	29	28	557
402			Surface Physics	103	157	70	18	16	364
403			Applied Optics and Quantum	207	202	121	16	20	566
404			General Applied Physics	95	71	42	7	12	227
405	E		Fundamentals of Engineering	71	25	42	8	7	153
	N		Applied Physics- Fundamentals of Engineering total	652	661	393	78	83	1,867
411	G		Materials for Machines and Strength of Materials	441	316	289	33	58	1,137
412	I		Workshop Processes and Production Engineering	292	259	160	16	38	765
413	N		Design Engineering, Machine Elements and Tribology	229	178	146	8	29	590
414			Fluid Mechanics	427	339	192	43	44	1,045
415	E		Heat Engineering	396	348	193	27	65	1,029
416			Mechanics and Control Engineering	363	231	158	22	32	806
417	E		Intelligent Mechanics and Machine System	261	218	143	12	60	694
	R		Machine Engineering total	2,409	1,889	1,281	161	326	6,066
421	I		Electric Power Engineering and Electric Machinery	332	178	210	19	44	783
422	N		Electronic and Electric Materials Engineering	276	365	192	39	54	926
423	G		Electron Devices and Apparatus Engineering	274	283	194	20	53	824
424			Information and Communication Engineering	671	491	278	45	94	1,579
425			System Engineering	157	134	82	15	32	420
427			Electronic Measurements	176	98	78	6	18	376
428			Control Engineering	243	111	107	17	13	491

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
			Electric and Electronic Engineering total	2,129	1,660	1,141	161	308	5,399
431			Construction Materials and Dynamics in General Civil Engineering	163	93	102	7	12	377
432			Structural Engineering and Seismology	192	133	131	18	34	508
433			Ground Engineering	226	131	150	32	40	579
434			Hydraulics and River Engineering	246	197	120	33	33	629
435			Traffic Engineering and Regional Planning	164	154	92	15	22	447
436			Civil Environmental System	143	106	80	20	26	375
			Civil Engineering total	1,134	814	675	125	167	2,915
441			Building Structure and Materials	293	177	166	25	36	697
442			Building Science and Building Equipment	121	115	97	13	21	367
443			City Planning and Building Planning	417	121	151	49	38	776
444			Architectural History and Design	176	41	25	12	15	269
			Architecture total	1,007	454	439	99	110	2,109
451			Physical Metallurgy	147	220	108	35	21	531
452			Inorganic Materials and Properties	212	288	139	39	37	715
453			Composed Materials and	78	70	59	8	15	230
454			Structural and Functional Materials	164	187	93	32	31	507
455			Metallurgy and Material Processing	226	194	127	21	33	601
456			Metal Productive Engineering	123	134	81	11	24	373
			Material Engineering total	950	1,093	607	146	161	2,957
461			Chemical Engineering in General	236	226	112	13	30	617
462			Reaction and Separation	145	177	59	19	19	419
463			Catalyst and Chemical Process	124	141	36	7	21	329
464			Bioengineering	166	222	100	14	27	529
465			Industrial Analytical Chemistry	85	108	36	8	14	251
			Process Engineering total	756	874	343	61	111	2,145
471			Industrial Physical Chemistry	194	213	75	13	35	530
472			Industrial Inorganic Chemistry	71	75	34	6	13	199
473			Industrial Organic Chemistry	85	111	25	13	17	251
474			Synthetic Chemistry	237	293	65	8	24	627
475			Polymer Synthesis	221	189	59	10	27	506
476			Polymer Structure and Property (inclu. Fiber)	211	252	108	37	25	633
			Industrial Chemistry total	1,019	1,133	366	87	141	2,746
481			Aeronautics	118	100	53	27	31	329
482			Ship Engineering	119	83	56	4	9	271
483			Marine Engineering	33	21	15	0	2	71
484			Resource Development Engineering	64	112	67	22	20	285
			Synthetic Engineering total	334	316	191	53	62	956
			ENGINEERING Total	10,390	8,894	5,436	971	1,469	27,160
501			Plant Breeding	98	91	44	21	20	274
502			Crop Science	122	87	31	24	14	278
503			Horticulture and Landscape Architecture	253	141	61	18	27	500
504			Plant Protection	157	137	71	22	20	407
505			Sericultural Science and Economic Entomology	44	33	19	3	5	104
			Agriculture total	674	489	226	88	86	1,563
511			Plant Fertilizer and Manure and Soil Science	144	102	38	45	22	351
512			Applied Microbiochemistry and Applied Biochemistry	376	326	216	59	60	1,037
513			Biological Productive Chemistry and Bioorganic Chemistry	108	98	70	24	26	326
514			Food Science and Nutritional Chemistry	218	186	117	26	30	577
			Agricultural Chemistry total	846	712	441	154	138	2,291
521			Forestry	298	147	122	63	21	651
522			Wood Science	175	183	87	27	34	506
			Forestry total	473	330	209	90	55	1,157
531			Fisheries in General	301	198	169	60	45	773
532			Fisheries Chemistry	119	109	60	16	13	317
			Fisheries total	420	307	229	76	58	1,090
541			Agricultural Economics	332	30	76	61	28	527

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	
551	AGRICULTURE		Irrigation, Drainage and Reclamation Engineering and Rural Agricultural Machinery	183	106	86	34	19	428	
552			Agricultural Machinery	112	113	64	9	14	312	
553			Biological Environment	81	39	21	8	9	158	
			Agricultural Engineering total	376	258	171	51	42	898	
561				Animal Science and Grassland Science	115	128	41	27	18	329
562				Applied Animal Science	106	98	35	28	14	281
563				Basic Veterinary Medicine and Basic Animal Science	133	161	99	34	21	448
564				Applied Veterinary Medicine	93	112	65	20	30	320
				Animal Science· Veterinary Medicine total	447	499	240	109	83	1,378
571				Biological Resource Science	46	44	36	14	11	151
572				Applied Molecular Cell Biology	24	36	16	6	13	95
				Interdisciplinary Agricultural Science total	70	80	52	20	24	246
	AGRICULTURE Total			3,638	2,705	1,644	649	514	9,150	
601	MEDICINE		Anatomy in General (inclu. Histology, Embryology)	142	249	86	41	24	542	
602			Physiology in General	161	230	83	33	31	538	
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional	75	102	65	17	15	274	
604			Pharmacology in General	78	205	32	31	33	379	
605			Medical Chemistry in General	91	252	96	44	27	510	
606			Pathological Medical Chemistry	45	66	45	27	9	192	
			Physiology total	592	1,104	407	193	139	2,435	
611				Hominal Pathology	160	228	72	39	27	526
612				Experimental Pathology	84	170	68	36	22	380
613				Parasitology (inclu. Medical Zoology)	36	75	56	52	19	238
614				Bacteriology (inclu. Eumycetes)	73	147	59	25	26	330
615				Virology	73	146	98	46	17	380
616				Immunology	147	298	83	38	36	602
			Pathology total	573	1,064	436	236	147	2,456	
621				Hygiene	64	84	71	44	17	280
622				Public Health and Health Science	230	237	253	63	44	827
623	Legal Medicine	83		121	40	17	19	280		
	Social Medicine total	377	442	364	124	80	1,387			
631	INTERNAL MEDICINE		Internal Medicine in General	120	201	74	29	35	459	
632			Gastroenterology	182	379	70	32	45	708	
633			Internal Medicine Respiratory System	103	228	54	17	24	426	
634			Neurological Medicine	139	189	81	29	39	477	
635			Cardioangiology	207	417	83	38	48	793	
636			Pediatrics	204	307	108	40	37	696	
637			Dermatology	137	185	52	21	44	439	
638			Radiology	246	434	104	19	52	855	
639			Neuropsychiatry	262	293	120	38	55	768	
641			Hematology	142	199	88	20	22	471	
642		Internal Medicine of Kidney	64	137	29	8	9	247		
643		Embryology and Newborn Medicine	5	14	1	0	1	21		
644		Endocrinology	68	152	38	19	10	287		
645		Metabolic Science	67	135	30	19	28	279		
	Internal Medicine total	1,946	3,270	932	329	449	6,926			
651			Surgery in General	139	237	36	7	46	465	
652			Gastroenterological Surgery	169	354	40	28	59	650	
653			Thoracic Surgery	127	215	29	10	25	406	
654			Neurosurgery	147	293	70	13	54	577	
655			Orthopedic Surgery	198	425	99	33	52	807	
656			Anesthesiology and Rescue Medicine	241	273	45	22	45	626	
657			Urology	115	259	56	15	32	477	
658			Obstetrics and Gynecology	159	321	37	30	43	590	
659			Oto-rhino-laryngology	141	264	40	18	23	486	
660			Ophthalmology	127	238	42	29	28	464	
661			Pediatric Surgery	33	83	9	2	7	134	
662			Formative Surgery	16	36	6	2	12	72	
	Surgery total	1,612	2,998	509	209	426	5,754			

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		
671	M E D I C I N E		Oral Anatomy and Morphological Basic Dentistry	76	177	52	20	20	345		
672			Functional Basic Dentistry	56	169	23	13	13	274		
673			Morbid Dentistry (inclu. Dental Radiology)	62	118	13	9	19	221		
674			Conservative Dentistry	94	302	28	26	30	480		
675			Prosthodontics and Dental Technology	152	425	54	33	41	705		
676			Oral Surgery	250	454	62	29	45	840		
677			Orthodontics, Pedodontics and Social Dentistry	193	401	68	34	51	747		
678			Periodontological Dentistry	23	85	4	4	12	128		
			Dentistry total	906	2,131	304	168	231	3,740		
681	C H E M I S T R Y		Chemical Pharmaceutics	162	235	71	35	28	531		
682			Physical Pharmaceutics	49	97	40	15	18	219		
683			Biopharmaceutics	168	266	120	30	51	635		
684			Molecular Pharmaceutics	21	52	23	6	7	109		
685			Environmental Pharmaceutics	4	10	3	1	2	20		
			Pharmaceutics total	404	660	257	87	106	1,514		
691	E N V I R O N M E N T A L S C I E N C E		Medical Sociology	48	38	27	7	9	129		
692			Human Genetics	26	36	48	16	2	128		
693			Applied Pharmacology and Medical Pharmacology	30	113	38	9	11	201		
694			Pathological Examination	57	138	44	12	9	260		
696			Science of Basic and Local Nursing	138	132	93	7	33	403		
697			Science of Clinical Nursing	236	226	84	7	28	581		
			Medicine in General total	535	683	334	58	92	1,702		
			MEDICINE Total	6,945	12,352	3,543	1,404	1,670	25,914		
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)	89	5	13	4	11	122		
703			Physical Education	734	201	291	56	59	1,341		
704			Human Geography	327	6	37	34	26	430		
705			Physical Geography	110	19	48	41	9	227		
					Geography total	437	25	85	75	35	657
706			Home Science(inclu. Cloth/Living Environments)	158	29	94	13	8	302		
707			Food Culture	35	18	30	7	0	90		
					Domestic Science total	193	47	124	20	8	392
708			Science of Cultural Property	14	11	14	10	1	50		
711			Science Education	117	30	47	10	15	219		
712			Educational Engineering	125	62	59	12	13	271		
713			Curriculum Studies	874	82	154	39	70	1,219		
714			Japanese Language Education	159	28	51	13	23	274		
					Science Education·Curriculum Education total	1,275	202	311	74	121	1,983
721			Statistics	130	27	70	8	11	246		
731			Computer Science	564	406	259	42	65	1,336		
732			Intelligent Informatics	471	327	221	21	52	1,092		
733			Study of Information System (Inclu. Library and Information Science)	198	110	72	15	39	434		
					Information Science total	1,233	843	552	78	156	2,862
741			Social System Engineering	127	50	61	15	9	262		
751			Natural Disaster Science	45	25	13	9	4	96		
761			Plasma Science and Technology	135	277	132	57	21	622		
772			Nuclear Fusion	40	123	66	32	13	274		
773			Energy Science General	43	34	16	9	9	111		
774	Nuclear Power Science	87	104	94	15	16	316				
			Energy total	170	261	176	56	38	701		
801	Environmental Dynamic Analysis	82	74	79	40	15	290				
802	Environmental Influence Assessment (inclu. Radiobiology)	71	94	69	23	22	279				
803	Environmental Preservation	111	100	72	24	25	332				
			Environmental Science total	264	268	220	87	62	901		
811	Biological Organic Chemistry	108	126	86	29	22	371				
812	Structured Biochemistry	74	100	117	34	16	341				
813	Functional Biochemistry	162	169	98	24	20	473				
			Biological Chemistry total	344	395	301	87	58	1,185		
821	Biophysics	135	113	138	37	30	453				

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
822	INTERDISCIPLINARY AREA		Molecular Biology	376	504	232	102	99	1,313
823			Cell Biology	161	260	107	50	50	628
824			Developmental Biology	145	154	93	40	27	459
			Basic Biology total	817	1,031	570	229	206	2,853
831			Neuroanatomy and Neuropathology	68	92	44	24	12	240
832			Neurochemistry and Neuropharmacology	34	84	48	9	6	181
833			Neuro Science in General	132	182	103	38	31	486
834			Neuro and Muscular Physiology	76	129	40	26	17	288
			Neuro Science (inclu. Brain Science) total	310	487	235	97	66	1,195
841			Laboratory Animal Science	27	36	37	10	12	122
851		Medical Organism Engineering and Material Science of Organism	124	198	197	36	29	584	
	INTERDISCIPLINARY AREA Total			6,468	4,389	3,402	1,008	907	16,174
999	WIDE AREA Total			335	128	121	50	68	702
	Item n.a. Total			108	91	58	10	22	289
	Grand Total			50,163	33,550	19,839	6,876	6,718	117,146

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	
211	ARTS · HUMANITIES	Philosophy	Philosophy	97	2	6	0	5	110	
212			Chinese Philosophy	24	0	1	0	3	28	
213			Indian Philosophy (inclu. Buddhist Studies)	8	2	0	1	1	12	
214			Religion	10	0	2	2	1	15	
215			Ethics	22	0	0	0	2	24	
216			History of Philosophy	37	2	0	3	3	45	
217			Aesthetics (inclu. Arts)	141	11	9	5	18	184	
218			Art History	38	0	6	3	4	51	
			Philosophy total		377	17	24	14	37	469
221		Psychology · Sociology · Education	Cultural Anthropology (inclu. Ethnology and Folklore)	Experimental Psychology	52	7	21	6	6	92
222				Educational and Social Psychology	149	15	47	4	12	227
223				Sociology (inclu. Social Welfare)	276	33	74	18	18	419
224				Education	170	29	26	5	13	243
225				Cultural Anthropology (inclu. Ethnology and Folklore)	56	4	9	9	4	82
		Psychology · Sociology · Education Cultural Anthropology total		703	88	177	42	53	1,063	
231		History	Japanese History	Japanese History	78	0	7	0	6	91
232				Oriental History	41	0	4	3	3	51
233				European History	61	1	5	1	4	72
234	Archaeology (inclu. Prehistory)			5	0	2	1	1	9	
	History total		185	1	18	5	14	223		
241	Literature	Literature	Japanese Language	52	1	5	0	8	66	
242			Japanese Literature	141	1	7	0	11	160	
243			Chinese Language and Literature	40	1	4	5	6	56	
244			English Language and Literature	407	6	15	3	27	458	
245			French Language and Literature	44	0	6	2	3	55	
246			German Language and Literature	72	2	5	1	3	83	
247			Other Foreign Languages and Literatures	25	2	2	3	5	37	
248			Linguistics and Phonetics	113	5	15	9	10	152	
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	13	0	0	0	3	16	
	Literature total		907	18	59	23	76	1,083		
	ARTS · HUMANITIES Total		2,172	124	278	84	180	2,838		
261	LAW	LAW	Basic Science of Law	30	0	0	0	1	31	
262			Public Law	64	2	4	2	4	76	
263			International Law	19	1	1	0	1	22	
264			Civil Law	70	0	5	0	8	83	
265			Social Law	18	0	4	0	1	23	
266			Criminal Law	14	0	1	0	0	15	
267			Politics	108	6	8	6	7	135	
	LAW Total		323	9	23	8	22	385		
271	ECONOMICS	ECONOMICS	General Theory of Economics	146	15	31	9	19	220	
272			Economical Statistics	18	2	5	1	1	27	
273			Economic Policy (inclu. Economic Condition)	131	7	24	13	16	191	
274			Economic History	54	4	11	1	4	74	
275			Public Finance, Money and Banking	76	5	17	6	9	113	
276			Commercial Science	42	4	4	0	0	50	
277			Business Administration	109	7	16	5	13	150	
278			Accounting	81	3	8	7	5	104	
	ECONOMICS Total		657	47	116	42	67	929		
301	SCIENCE	SCIENCE	Algebra	44	2	1	1	0	48	
302			Geometry	33	0	6	4	2	45	
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	47	6	12	2	4	71	
305			Basic Analysis	28	2	3	1	1	35	
306			Larger-area Analysis	7	3	1	0	1	12	
			Mathematics total		159	13	23	8	8	211
311	Astronomy	1	1	13	2	1	18			
321			Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	24	10	34	24	8	100	

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		Solid State Physics I (Optical Properties, Semiconductor and Dielectrics)	16	36	27	1	8	88	
323			Solid State Physics II (Magnetism, Metal Physics, Cryogenics)	14	29	31	10	3	87	
324			Physical Properties in General (inclu. Basic Theories)	17	5	17	4	4	47	
325			Physics in General	14	15	7	3	2	41	
			Physics total	85	95	116	42	25	363	
331		C		Physics of Solid Earth	5	2	10	1	0	18
332				Meteorology, Oceanography and Hydrology	5	5	7	6	0	23
333				Aeronomy	0	0	0	0	0	0
334				Geology	15	7	8	6	0	36
335				Stratigraphy and Paleontology	5	0	1	1	0	7
336				Mineralogy, Petrology and Study of Mineral Deposit	6	3	3	0	0	12
337				Geochemistry	2	4	5	4	5	20
			Earth Science total	38	21	34	18	5	116	
341	N		Physical Chemistry	39	38	39	11	6	133	
342			Organic Chemistry	53	23	15	5	2	98	
343			Inorganic Chemistry	18	11	8	1	5	43	
344			Function, Properties and Materials in Chemistry	13	10	8	1	0	32	
345			Substance Transformation	3	0	0	0	0	3	
346			Separation, Refining and Identification	9	8	17	0	2	36	
		Chemistry total	135	90	87	18	15	345		
351	E		Genetics	11	14	11	5	3	44	
352			Ecology	39	8	20	12	4	83	
353			Plant Physiology	38	19	30	10	11	108	
354			Morphology, Structure of Organism	6	1	3	3	0	13	
355			Animal Physiology and Metabolism	12	9	4	5	1	31	
356			Morphology and Taxonomy	19	4	5	5	0	33	
		Biology total	125	55	73	40	19	312		
361			Physical Anthropology (inclu. Physiological Anthropology)	10	2	0	1	1	14	
		SCIENCE Total	553	277	346	129	74	1,379		
401	E		Applied Physics of Property and Crystallography	10	17	10	4	1	42	
402			Surface Physics	6	6	4	2	1	19	
403			Applied Optics and Quantum	10	18	13	2	1	44	
404			General Applied Physics	9	7	3	1	1	21	
405			Fundamentals of Engineering	1	1	7	2	0	11	
		Applied Physics·Fundamentals of Engineering total	36	49	37	11	4	137		
411	G		Materials for Machines and Strength of Materials	33	47	17	5	2	104	
412			Workshop Processes and Production Engineering	23	20	17	0	3	63	
413			Design Engineering, Machine Elements and Tribology	9	4	12	2	2	29	
414			Fluid Mechanics	42	30	17	3	5	97	
415			Heat Engineering	18	36	16	5	1	76	
416			Mechanics and Control Engineering	35	15	19	0	6	75	
417			Intelligent Mechanics and Machine System	16	12	15	3	6	52	
		Machine Engineering total	176	164	113	18	25	496		
421	I		Electric Power Engineering and Electric Machinery	17	22	23	4	3	69	
422			Electronic and Electric Materials Engineering	7	28	10	2	2	49	
423			Electron Devices and Apparatus Engineering	18	21	7	0	11	57	
424			Information and Communication Engineering	84	67	37	4	10	202	
425			System Engineering	18	14	9	3	2	46	
427			Electronic Measurements	4	1	0	0	2	7	
428			Control Engineering	24	13	6	2	2	47	

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		
			Electric and Electronic Engineering total	172	166	92	15	32	477		
431	E		Construction Materials and Dynamics in General Civil Engineering	15	8	6	0	1	30		
432			Structural Engineering and Seismology	15	10	18	0	2	45		
433			Ground Engineering	14	9	6	0	1	30		
434			Hydraulics and River Engineering	13	7	5	2	1	28		
435			Traffic Engineering and Regional Planning	7	11	9	0	1	28		
436			Civil Environmental System	13	9	6	0	0	28		
			Civil Engineering total	77	54	50	2	6	189		
441			N		Building Structure and Materials	26	18	12	1	4	61
442					Building Science and Building Equipment	17	18	22	2	1	60
443					City Planning and Building Planning	66	15	34	5	9	129
444	Architectural History and Design	31			8	5	0	4	48		
			Architecture total	140	59	73	8	18	298		
451	E		Physical Metallurgy	7	6	2	1	3	19		
452			Inorganic Materials and Properties	0	14	10	0	0	24		
453			Composed Materials and	6	5	14	1	1	27		
454			Structural and Functional Materials	11	14	10	0	1	36		
455			Metallurgy and Material Processing	8	11	9	0	5	33		
456			Metal Productive Engineering	2	1	0	0	0	3		
			Material Engineering total	34	51	45	2	10	142		
461	R		Chemical Engineering in General	22	22	5	0	3	52		
462			Reaction and Separation	6	11	7	1	1	26		
463			Catalyst and Chemical Process	1	2	4	1	0	8		
464			Bioengineering	11	6	5	0	1	23		
465			Industrial Analytical Chemistry	7	8	0	0	3	18		
			Process Engineering total	47	49	21	2	8	127		
471	G		Industrial Physical Chemistry	19	14	10	6	0	49		
472			Industrial Inorganic Chemistry	7	10	3	0	1	21		
473			Industrial Organic Chemistry	6	3	0	1	0	10		
474			Synthetic Chemistry	8	20	2	4	1	35		
475			Polymer Synthesis	12	19	8	0	0	39		
476			Polymer Structure and Property (inclu. Fiber)	22	10	12	1	5	50		
			Industrial Chemistry total	74	76	35	12	7	204		
481			Aeronautics	11	7	3	1	2	24		
482			Ship Engineering	6	10	4	1	1	22		
483			Marine Engineering	3	12	1	0	0	16		
484			Resource Development Engineering	0	1	2	0	0	3		
			Synthetic Engineering total	20	30	10	2	3	65		
			ENGINEERING Total	776	698	476	72	113	2,135		
501	A	G	Plant Breeding	13	15	9	2	4	43		
502			Crop Science	14	7	5	0	4	30		
503			Horticulture and Landscape Architecture	58	19	9	2	7	95		
504			Plant Protection	17	5	8	2	0	32		
505			Sericultural Science and Economic Entomology	1	0	2	0	0	3		
					Agriculture total	103	46	33	6	15	203
511					Plant Fertilizer and Manure and Soil Science	11	12	10	3	7	43
512					Applied Microbiochemistry and Applied Biochemistry	27	21	32	5	11	96
513					Biological Productive Chemistry and Bioorganic Chemistry	11	10	5	2	2	30
514					Food Science and Nutritional Chemistry	67	55	62	8	7	199
			Agricultural Chemistry total	116	98	109	18	27	368		
521			Forestry	20	7	1	4	0	32		
522			Wood Science	11	6	6	1	5	29		
			Forestry total	31	13	7	5	5	61		
531			Fisheries in General	2	6	3	0	0	11		
532			Fisheries Chemistry	2	5	5	0	2	14		
			Fisheries total	4	11	8	0	2	25		
541			Agricultural Economics	35	5	8	3	5	56		

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	
551	A G R I C U L T U R E		Irrigation, Drainage and Reclamation Engineering and Rural Agricultural Machinery	26	12	9	2	1	50	
552			Agricultural Machinery	13	4	4	0	5	26	
553			Biological Environment	7	6	4	0	2	19	
				Agricultural Engineering total	46	22	17	2	8	95
561				Animal Science and Grassland Science	14	2	4	0	5	25
562				Applied Animal Science	6	2	6	0	1	15
563				Basic Veterinary Medicine and Basic Animal Science	22	23	8	2	2	57
564				Applied Veterinary Medicine	7	19	5	3	2	36
				Animal Science· Veterinary Medicine total	49	46	23	5	10	133
571				Biological Resource Science	1	2	2	1	0	6
572				Applied Molecular Cell Biology	1	2	2	0	1	6
				Interdisciplinary Agricultural Science total	2	4	4	1	1	12
	AGRICULTURE Total			386	245	209	40	73	953	
601	M E D I C I N E		Anatomy in General (inclu. Histology, Embryology)	28	27	13	13	7	88	
602			Physiology in General	20	39	20	6	4	89	
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional	21	22	36	5	3	87	
604			Pharmacology in General	22	39	11	3	5	80	
605			Medical Chemistry in General	26	29	16	5	4	80	
606			Pathological Medical Chemistry	10	6	12	4	3	35	
				Physiology total	127	162	108	36	26	459
611				Hominal Pathology	17	44	21	9	6	97
612				Experimental Pathology	14	41	14	6	5	80
613				Parasitology (inclu. Medical Zoology)	5	20	9	4	1	39
614				Bacteriology (inclu. Eumycetes)	11	21	19	7	9	67
615				Virology	4	14	14	3	2	37
616			Immunology	13	25	12	3	5	58	
			Pathology total	64	165	89	32	28	378	
621			Hygiene	19	11	35	6	3	74	
622			Public Health and Health Science	68	57	106	11	26	268	
623			Legal Medicine	18	24	9	2	2	55	
			Social Medicine total	105	92	150	19	31	397	
631			Internal Medicine in General	26	50	18	5	8	107	
632			Gastroenterology	18	73	9	9	8	117	
633			Internal Medicine Respiratory System	13	29	13	0	8	63	
634			Neurological Medicine	16	36	7	4	6	69	
635			Cardioangiology	41	91	13	6	7	158	
636			Pediatrics	47	63	24	6	6	146	
637			Dermatology	26	59	15	6	9	115	
638			Radiology	32	37	16	0	12	97	
639			Neuropsychiatry	35	42	19	10	7	113	
641			Hematology	20	32	20	6	1	79	
642			Internal Medicine of Kidney	13	17	16	3	1	50	
643			Embryology and Newborn Medicine	2	8	5	0	1	16	
644			Endocrinology	5	3	1	2	0	11	
645			Metabolic Science	6	14	1	5	3	29	
			Internal Medicine total	300	554	177	62	77	1,170	
651			Surgery in General	19	51	8	6	6	90	
652			Gastroenterological Surgery	28	80	16	4	12	140	
653			Thoracic Surgery	22	30	4	1	5	62	
654			Neurosurgery	30	49	12	4	5	100	
655			Orthopedic Surgery	44	67	22	10	10	153	
656			Anesthesiology and Rescue Medicine	26	39	4	5	13	87	
657			Urology	14	37	10	4	7	72	
658			Obstetrics and Gynecology	30	58	7	1	8	104	
659			Oto-rhino-laryngology	37	61	13	0	13	124	
660			Ophthalmology	19	43	10	3	7	82	
661			Pediatric Surgery	10	5	0	1	1	17	
662			Formative Surgery	5	5	0	0	0	10	
			Surgery total	284	525	106	39	87	1,041	

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		
671	M	D	Oral Anatomy and Morphological Basic Dentistry	3	13	5	7	2	30		
672			Functional Basic Dentistry	5	11	4	0	1	21		
673			Morbid Dentistry (inclu. Dental Radiology)	10	6	2	0	4	22		
674			Conservative Dentistry	6	19	6	1	2	34		
675			Prosthodontics and Dental Technology	8	18	1	1	2	30		
676			Oral Surgery	30	22	5	3	2	62		
677			Orthodontics, Pedodontics and Social Dentistry	2	13	4	0	0	19		
678			Periodontological Dentistry	3	6	2	0	1	12		
			Dentistry total	67	108	29	12	14	230		
681	C	I	Chemical Pharmaceutics	27	27	27	3	2	86		
682			Physical Pharmaceutics	14	22	10	1	5	52		
683			Biopharmaceutics	33	37	22	11	1	104		
684			Molecular Pharmaceutics	6	0	1	0	0	7		
685			Environmental Pharmaceutics	1	0	0	0	0	1		
			Pharmaceutics total	81	86	60	15	8	250		
691	E	M	Medical Sociology	16	2	9	1	7	35		
692			Human Genetics	2	1	1	0	1	5		
693			Applied Pharmacology and Medical Pharmacology	0	2	7	0	0	9		
694			Pathological Examination	25	17	13	3	3	61		
696			Science of Basic and Local Nursing	101	141	94	2	35	373		
697			Science of Clinical Nursing	165	121	81	8	35	410		
			Medicine in General total	309	284	205	14	81	893		
	MEDICINE Total			1,337	1,976	924	229	352	4,818		
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)	19	0	2	1	0	22		
703			Physical Education	62	34	87	5	7	195		
704			Human Geography	47	1	6	4	0	58		
705			Physical Geography	16	0	8	3	2	29		
					Geography total	63	1	14	7	2	87
706			Home Science(inclu. Cloth/Living Environments)	25	17	30	2	5	79		
707			Food Culture	32	29	26	4	7	98		
					Domestic Science total	57	46	56	6	12	177
708			Science of Cultural Property	0	0	0	0	0	0	0	
711			Science Education	8	2	5	1	0	16		
712			Educational Engineering	11	13	9	0	1	34		
713			Curriculum Studies	38	3	3	0	0	44		
714			Japanese Language Education	8	0	4	1	2	15		
					Science Education·Curriculum Education total	65	18	21	2	3	109
721			Statistics	6	2	6	1	0	15		
731			Computer Science	45	24	21	5	9	104		
732			Intelligent Informatics	52	33	29	5	6	125		
733			Study of Information System (Inclu. Library and Information Science)	44	9	25	6	1	85		
					Information Science total	141	66	75	16	16	314
741			Social System Engineering	25	6	8	3	5	47		
751			Natural Disaster Science	5	2	1	1	0	9		
761			Plasma Science and Technology	8	10	5	2	1	26		
772			Nuclear Fusion	1	0	6	0	0	7		
773			Energy Science General	6	5	3	0	1	15		
774	Nuclear Power Science	0	0	0	0	0	0				
			Energy total	7	5	9	0	1	22		
801	Environmental Dynamic Analysis	7	7	10	2	1	27				
802	Environmental Influence Assessment (inclu. Radiobiology)	7	17	13	2	3	42				
803	Environmental Preservation	12	7	27	2	0	48				
			Environmental Science total	26	31	50	6	4	117		
811	Biological Organic Chemistry	9	11	7	1	2	30				
812	Structured Biochemistry	15	19	23	3	4	64				
813	Functional Biochemistry	28	23	11	6	4	72				
			Biological Chemistry total	52	53	41	10	10	166		
821	Biophysics	13	10	16	2	4	45				

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

Code	Subj ect	Subdi visio n	I t e m	Individual	Collaboration in organization	Collaboration in Japan	International collaboration	Unknown	Total
822	I		Molecular Biology	30	46	19	4	4	103
823	N		Cell Biology	18	29	16	6	5	74
824	T		Developmental Biology	8	9	9	4	3	33
	A E		Basic Biology total	69	94	60	16	16	255
831	R R		Neuroanatomy and Neuropathology	21	16	4	3	0	44
832	Y D		Neurochemistry and Neuropharmacology	6	8	7	3	0	24
833	A S		Neuro Science in General	16	16	18	3	0	53
834	R C		Neuro and Muscular Physiology	13	19	3	1	2	38
	E I		Neuro Science (inclu. Brain Science) total	56	59	32	10	2	159
841	L		Laboratory Animal Science	10	4	0	0	8	22
851	I N		Medical Organism Engineering and Material Science of Organism	10	20	13	0	4	47
			INTERDISCIPLINARY AREA Total	681	451	480	86	91	1,789
999			WIDE AREA Total	87	30	18	6	8	149
			Item n.a. Total	34	39	22	2	8	105
			Grand Total	7,006	3,896	2,892	698	988	15,480

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
211	ARTS · HUMANITIES		Philosophy	819	30	47	11	58	965
212			Chinese Philosophy	162	3	10	6	10	191
213			Indian Philosophy (inclu. Buddhist Studies)	522	45	25	15	45	652
214			Religion	509	25	39	17	31	621
215			Ethics	179	10	12	3	19	223
216			History of Philosophy	303	18	15	8	29	373
217			Aesthetics (inclu. Arts)	1,510	107	99	30	141	1,887
218			Art History	346	11	27	4	42	430
		Philosophy total		4,350	249	274	94	375	5,342
221			Experimental Psychology	461	57	165	28	39	750
222			Educational and Social Psychology	1,864	222	502	107	166	2,861
223			Sociology (inclu. Social Welfare)	2,268	225	473	139	242	3,347
224			Education	2,141	205	304	81	221	2,952
225			Cultural Anthropology (inclu. Ethnology and Folklore)	630	45	121	80	49	925
		Psychology · Sociology · Education Cultural Anthropology total		7,364	754	1,565	435	717	10,835
231			Japanese History	789	42	65	13	100	1,009
232			Oriental History	414	23	35	23	39	534
233			European History	660	17	47	19	56	799
234	Archaeology (inclu. Prehistory)		213	16	48	45	18	340	
	History total		2,076	98	195	100	213	2,682	
241		Japanese Language	598	17	37	4	47	703	
242		Japanese Literature	1,959	48	89	10	171	2,277	
243		Chinese Language and Literature	517	22	34	15	42	630	
244		English Language and Literature	4,770	222	238	65	422	5,717	
245		French Language and Literature	692	20	28	6	62	808	
246		German Language and Literature	758	34	45	18	55	910	
247		Other Foreign Languages and Literatures	338	15	24	8	38	423	
248		Linguistics and Phonetics	1,336	91	119	55	115	1,716	
249	Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	339	13	17	7	49	425		
	Literature total		11,307	482	631	188	1,001	13,609	
	ARTS · HUMANITIES Total		25,097	1,583	2,665	817	2,306	32,468	
261	LAW	Basic Science of Law	327	15	23	5	19	389	
262		Public Law	554	20	47	4	49	674	
263		International Law	318	11	34	6	28	397	
264		Civil Law	942	19	56	13	70	1,100	
265		Social Law	162	10	24	9	13	218	
266		Criminal Law	276	8	27	6	19	336	
267		Politics	1,051	51	85	51	99	1,337	
	LAW Total		3,630	134	296	94	297	4,451	
271	ECONOMICS	General Theory of Economics	1,113	50	119	55	83	1,420	
272		Economical Statistics	164	15	69	14	22	284	
273		Economic Policy (inclu. Economic Condition)	1,254	73	187	89	109	1,712	
274		Economic History	492	21	66	21	45	645	
275		Public Finance, Money and Banking	654	30	63	15	58	820	
276		Commercial Science	628	41	75	29	53	826	
277		Business Administration	1,560	124	224	79	132	2,119	
278		Accounting	997	38	84	22	65	1,206	
	ECONOMICS Total		6,862	392	887	324	567	9,032	
301	SCIENCE	Algebra	245	19	34	6	17	321	
302		Geometry	183	10	26	5	19	243	
304		Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	293	35	82	27	30	467	
305		Basic Analysis	156	9	18	11	14	208	
306		Larger-area Analysis	41	2	11	6	1	61	
		Mathematics total		918	75	171	55	81	1,300
311		Astronomy	44	7	38	18	3	110	
321		Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	166	62	243	106	40	617	

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		Solid State Physics I (Optical Properties, Semiconductor and Dielectrics)	126	86	116	11	11	350		
323			Solid State Physics II (Magnetism, Metal Physics, Cryogenics)	82	84	112	24	14	316		
324			Physical Properties in General (inclu. Basic Theories)	160	45	88	18	19	330		
325			Physics in General	126	35	69	11	12	253		
Physics total				660	312	628	170	96	1,866		
331			Physics of Solid Earth	31	13	22	10	2	78		
332			Meteorology, Oceanography and Hydrology	52	17	35	6	9	119		
333			Aeronomy	9	7	20	12	2	50		
334			Geology	41	7	23	14	7	92		
335			Stratigraphy and Paleontology	17	2	10	9	1	39		
336	I		Mineralogy, Petrology and Study of Mineral Deposit	35	1	22	6	2	66		
337			Geochemistry	31	11	24	6	4	76		
Earth Science total				216	58	156	63	27	520		
341	N		Physical Chemistry	189	111	93	21	27	441		
342			Organic Chemistry	163	168	103	12	22	468		
343			Inorganic Chemistry	71	30	68	14	15	198		
344			Function, Properties and Materials in Chemistry	100	48	41	5	11	205		
345			Substance Transformation	7	1	7	1	0	16		
346			Separation, Refining and Identification	73	61	35	6	7	182		
Chemistry total				603	419	347	59	82	1,510		
351	C		Genetics	32	12	31	10	6	91		
352			Ecology	150	37	82	40	8	317		
353			Plant Physiology	51	27	43	14	3	138		
354			Morphology, Structure of Organism	61	22	22	8	6	119		
355			Animal Physiology and Metabolism	37	32	41	3	12	125		
356			Morphology and Taxonomy	79	22	38	30	14	183		
Biology total				410	152	257	105	49	973		
361			Physical Anthropology (inclu. Physiological Anthropology)	36	8	28	12	1	85		
SCIENCE Total				2,887	1,031	1,625	482	339	6,364		
401	E		Applied Physics of Property and Crystallography	46	49	50	2	5	152		
402			Surface Physics	53	33	34	7	2	129		
403			Applied Optics and Quantum	96	55	66	12	14	243		
404			General Applied Physics	31	30	24	4	14	103		
405			Fundamentals of Engineering	35	10	25	4	2	76		
Applied Physics-Fundamentals of Engineering total				261	177	199	29	37	703		
411	G		Materials for Machines and Strength of Materials	287	121	121	16	26	571		
412			Workshop Processes and Production Engineering	212	114	121	11	25	483		
413	N		Design Engineering, Machine Elements and Tribology	139	56	67	2	13	277		
414			Fluid Mechanics	231	110	126	14	34	515		
415	E		Heat Engineering	210	131	116	12	28	497		
416			Mechanics and Control Engineering	199	98	99	0	22	418		
417	R		Intelligent Mechanics and Machine System	148	67	53	7	17	292		
Machine Engineering total				1,426	697	703	62	165	3,053		
421	I		Electric Power Engineering and Electric Machinery	237	145	136	8	32	558		
422			Electronic and Electric Materials Engineering	181	154	122	14	32	503		
423			Electron Devices and Apparatus Engineering	228	116	104	15	31	494		
424			Information and Communication Engineering	553	218	218	26	73	1,088		
425			System Engineering	158	39	69	12	25	303		
427			Electronic Measurements	97	65	73	10	13	258		
428			Control Engineering	104	33	28	7	8	180		

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
			Electric and Electronic Engineering total	1,558	770	750	92	214	3,384
431			Construction Materials and Dynamics in General Civil Engineering	107	47	46	3	20	223
432			Structural Engineering and Seismology	169	56	77	4	7	313
433			Ground Engineering	103	51	77	9	16	256
434			Hydraulics and River Engineering	89	48	82	6	13	238
435			Traffic Engineering and Regional Planning	118	29	67	10	13	237
436			Civil Environmental System	47	47	73	5	6	178
			Civil Engineering total	633	278	422	37	75	1,445
441			Building Structure and Materials	290	133	196	18	38	675
442			Building Science and Building Equipment	166	36	131	7	11	351
443			City Planning and Building Planning	491	127	216	38	68	940
444			Architectural History and Design	302	25	65	20	31	443
			Architecture total	1,249	321	608	83	148	2,409
451			Physical Metallurgy	45	25	25	6	7	108
452			Inorganic Materials and Properties	105	68	70	7	12	262
453			Composed Materials and	32	22	32	3	6	95
454			Structural and Functional Materials	56	32	43	5	8	144
455			Metallurgy and Material Processing	106	38	61	7	7	219
456			Metal Productive Engineering	25	12	20	4	3	64
			Material Engineering total	369	197	251	32	43	892
461			Chemical Engineering in General	53	46	14	6	2	121
462			Reaction and Separation	50	23	13	4	2	92
463			Catalyst and Chemical Process	28	12	15	2	6	63
464			Bioengineering	46	35	27	2	4	114
465			Industrial Analytical Chemistry	24	16	12	2	3	57
			Process Engineering total	201	132	81	16	17	447
471			Industrial Physical Chemistry	66	27	27	5	9	134
472			Industrial Inorganic Chemistry	36	23	21	1	5	86
473			Industrial Organic Chemistry	54	41	22	4	11	132
474			Synthetic Chemistry	65	44	16	3	8	136
475			Polymer Synthesis	77	48	22	2	7	156
476			Polymer Structure and Property (inclu. Fiber)	105	53	68	7	13	246
			Industrial Chemistry total	403	236	176	22	53	890
481			Aeronautics	68	15	32	6	6	127
482			Ship Engineering	25	3	12	0	6	46
483			Marine Engineering	18	5	11	0	2	36
484			Resource Development Engineering	16	4	5	0	1	26
			Synthetic Engineering total	127	27	60	6	15	235
			ENGINEERING Total	6,227	2,835	3,250	379	767	13,458
501			Plant Breeding	30	23	15	4	2	74
502			Crop Science	28	13	4	2	4	51
503			Horticulture and Landscape Architecture	138	46	30	8	18	240
504			Plant Protection	41	21	13	5	6	86
505			Sericultural Science and Economic Entomology	15	15	9	4	0	43
			Agriculture total	252	118	71	23	30	494
511			Plant Fertilizer and Manure and Soil Science	32	19	10	6	10	77
512			Applied Microbiochemistry and Applied Biochemistry	158	155	110	20	34	477
513			Biological Productive Chemistry and Bioorganic Chemistry	22	25	25	3	5	80
514			Food Science and Nutritional Chemistry	394	282	271	29	71	1,047
			Agricultural Chemistry total	606	481	416	58	120	1,681
521			Forestry	32	11	17	1	6	67
522			Wood Science	6	9	1	2	2	20
			Forestry total	38	20	18	3	8	87
531			Fisheries in General	103	59	39	14	14	229
532			Fisheries Chemistry	26	30	20	5	3	84
			Fisheries total	129	89	59	19	17	313
541			Agricultural Economics	192	20	37	25	15	289

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
551	AGRICULTURE		Irrigation, Drainage and Reclamation Engineering and Rural Agricultural Machinery	36	14	17	6	6	79
552			Agricultural Machinery	16	21	8	6	2	53
553			Biological Environment	7	5	5	1	5	23
			Agricultural Engineering total	59	40	30	13	13	155
561			Animal Science and Grassland Science	46	57	17	9	6	135
562			Applied Animal Science	31	29	23	5	10	98
563			Basic Veterinary Medicine and Basic Animal Science	72	110	56	20	18	276
564			Applied Veterinary Medicine	54	105	50	12	13	234
			Animal Science· Veterinary Medicine total	203	301	146	46	47	743
571			Biological Resource Science	13	1	14	12	1	41
572		Applied Molecular Cell Biology	13	11	12	1	1	38	
		Interdisciplinary Agricultural Science total	26	12	26	13	2	79	
	AGRICULTURE Total			1,505	1,081	803	200	252	3,841
601	MEDICINE		Anatomy in General (incl. Histology, Embryology)	155	153	85	35	26	454
602			Physiology in General	147	172	77	32	14	442
603			Environmental Physiology (incl. Physical Fitness and Sports Medicine, and Nutritional	107	99	125	23	27	381
604			Pharmacology in General	90	185	67	24	19	385
605			Medical Chemistry in General	81	112	78	25	10	306
606			Pathological Medical Chemistry	44	43	39	9	2	137
			Physiology total	624	764	471	148	98	2,105
611			Hominal Pathology	147	225	70	21	34	497
612			Experimental Pathology	44	85	54	4	5	192
613			Parasitology (incl. Medical Zoology)	32	36	49	34	6	157
614		Bacteriology (incl. Eumycetes)	81	131	87	21	10	330	
615		Virology	30	47	38	14	13	142	
616		Immunology	87	155	89	28	26	385	
		Pathology total	421	679	387	122	94	1,703	
621		Hygiene	83	127	87	11	13	321	
622		Public Health and Health Science	274	234	296	38	65	907	
623		Legal Medicine	56	99	34	8	8	205	
		Social Medicine total	413	460	417	57	86	1,433	
631	INTERNAL MEDICINE		Internal Medicine in General	145	234	75	17	29	500
632			Gastroenterology	208	324	47	15	42	636
633			Internal Medicine Respiratory System	73	162	24	12	15	286
634			Neurological Medicine	97	182	46	17	16	358
635			Cardioangiology	223	402	80	19	48	772
636			Pediatrics	187	191	99	23	39	539
637			Dermatology	103	126	33	14	24	300
638			Radiology	156	253	76	15	28	528
639			Neuropsychiatry	213	222	97	22	31	585
641			Hematology	112	121	59	19	15	326
642		Internal Medicine of Kidney	74	119	35	16	10	254	
643		Embryology and Newborn Medicine	8	23	4	3	1	39	
644		Endocrinology	36	87	27	4	10	164	
645		Metabolic Science	47	80	26	2	6	161	
		Internal Medicine total	1,682	2,526	728	198	314	5,448	
651	SURGERY		Surgery in General	150	281	51	11	43	536
652			Gastroenterological Surgery	193	311	35	19	50	608
653			Thoracic Surgery	125	175	35	15	37	387
654			Neurosurgery	135	173	40	10	43	401
655			Orthopedic Surgery	209	270	49	16	46	590
656			Anesthesiology and Rescue Medicine	152	176	25	11	19	383
657			Urology	139	151	40	12	30	372
658			Obstetrics and Gynecology	143	200	59	12	17	431
659			Oto-rhino-laryngology	142	152	34	11	21	360
660			Ophthalmology	110	165	39	23	17	354
661		Pediatric Surgery	23	45	4	1	4	77	
662		Formative Surgery	32	55	8	2	8	105	
		Surgery total	1,553	2,154	419	143	335	4,604	

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		
671	M E D I C I N E		Oral Anatomy and Morphological Basic Dentistry	194	249	72	21	27	563		
672			Functional Basic Dentistry	101	239	66	21	18	445		
673			Morbid Dentistry (inclu. Dental Radiology)	99	153	21	7	17	297		
674			Conservative Dentistry	171	355	35	31	42	634		
675			Prosthodontics and Dental Technology	265	475	71	18	69	898		
676			Oral Surgery	229	386	60	21	42	738		
677			Orthodontics, Pedodontics and Social Dentistry	193	391	79	37	59	759		
678			Periodontological Dentistry	19	51	4	4	17	95		
			Dentistry total	1,271	2,299	408	160	291	4,429		
681	C H E M I S T R Y		Chemical Pharmaceutics	201	434	222	70	50	977		
682			Physical Pharmaceutics	99	155	62	11	25	352		
683			Biopharmaceutics	306	550	286	62	71	1,275		
684			Molecular Pharmaceutics	27	25	21	4	6	83		
685			Environmental Pharmaceutics	10	11	12	3	1	37		
			Pharmaceutics total	643	1,175	603	150	153	2,724		
691	E N V I R O N M E N T A L S C I E N C E		Medical Sociology	61	43	24	4	18	150		
692			Human Genetics	4	13	13	3	0	33		
693			Applied Pharmacology and Medical Pharmacology	77	97	50	7	10	241		
694			Pathological Examination	44	100	50	6	8	208		
696			Science of Basic and Local Nursing	155	122	116	2	26	421		
697			Science of Clinical Nursing	170	137	91	9	30	437		
			Medicine in General total	511	512	344	31	92	1,490		
			MEDICINE Total	7,118	10,569	3,777	1,009	1,463	23,936		
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)	122	9	19	6	17	173		
703			Physical Education	1,083	402	574	37	147	2,243		
704			Human Geography	304	11	41	23	21	400		
705			Physical Geography	95	7	23	18	1	144		
					Geography total	399	18	64	41	22	544
706			Home Science(inclu. Cloth/Living Environments)	529	249	300	19	56	1,153		
707			Food Culture	231	166	170	7	32	606		
					Domestic Science total	760	415	470	26	88	1,759
708			Science of Cultural Property	4	0	5	0	0	9		
711			Science Education	84	28	20	3	4	139		
712			Educational Engineering	195	92	96	9	13	405		
713			Curriculum Studies	637	88	78	8	49	860		
714			Japanese Language Education	142	30	24	10	20	226		
					Science Education· Curriculum Education total	1,058	238	218	30	86	1,630
721			Statistics	99	17	40	6	9	171		
731			Computer Science	492	123	172	24	40	851		
732			Intelligent Informatics	256	96	128	18	23	521		
733			Study of Information System (Inclu. Library and Information Science)	630	122	143	19	85	999		
					Information Science total	1,378	341	443	61	148	2,371
741			Social System Engineering	169	33	70	14	19	305		
751			Natural Disaster Science	9	5	5	1	0	20		
761			Plasma Science and Technology	46	39	46	4	10	145		
772			Nuclear Fusion	6	8	13	3	1	31		
773			Energy Science General	22	4	8	6	0	40		
774	Nuclear Power Science	21	13	26	8	5	73				
			Energy total	49	25	47	17	6	144		
801	Environmental Dynamic Analysis	33	29	39	6	8	115				
802	Environmental Influence Assessment (inclu. Radiobiology)	46	37	44	5	8	140				
803	Environmental Preservation	78	39	48	12	21	198				
			Environmental Science total	157	105	131	23	37	453		
811	Biological Organic Chemistry	40	61	43	8	2	154				
812	Structured Biochemistry	40	65	55	17	13	190				
813	Functional Biochemistry	68	69	84	20	3	244				
			Biological Chemistry total	148	195	182	45	18	588		
821	Biophysics	60	23	57	15	5	160				

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
822	INTERDISCIPLINARY AREA		Molecular Biology	116	149	98	43	24	430
823			Cell Biology	62	80	68	14	14	238
824			Developmental Biology	41	36	23	5	9	114
			Basic Biology total	279	288	246	77	52	942
831			Neuroanatomy and Neuropathology	25	60	25	15	4	129
832			Neurochemistry and Neuropharmacology	29	92	41	15	6	183
833			Neuro Science in General	66	64	70	16	21	237
834			Neuro and Muscular Physiology	64	57	36	12	6	175
			Neuro Science (inclu. Brain Science) total	184	273	172	58	37	724
841			Laboratory Animal Science	13	36	42	8	3	102
851		Medical Organism Engineering and Material Science of Organism	82	77	131	13	21	324	
	INTERDISCIPLINARY AREA Total			6,039	2,516	2,905	467	720	12,647
999	WIDE AREA Total			961	211	195	76	160	1,603
	Item n.a. Total			191	84	63	4	32	374
	Grand Total			60,517	20,436	16,466	3,852	6,903	108,174

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	56	5	2	0	0	0	63	
212			Chinese Philosophy	14	2	0	0	0	0	16	
213			Indian Philosophy (inclu. Buddhist Studies)	31	2	1	1	0	1	36	
214			Religion	46	4	1	0	0	0	51	
215			Ethics	10	2	0	0	0	0	12	
216			History of Philosophy	35	2	0	0	0	0	37	
217			Aesthetics (inclu. Arts)	173	39	0	0	0	0	212	
218			Art History	62	4	0	0	7	0	73	
			Philosophy total		427	60	4	1	7	1	500
221					Experimental Psychology	42	0	0	2	1	0
222	Educational and Social Psychology	81			16	0	3	6	0	106	
223	Sociology (inclu. Social Welfare)	207			19	0	2	0	0	228	
224	Education	179			25	2	1	6	0	213	
225	Cultural Anthropology (inclu. Ethnology and Folklore)	223			13	0	14	0	0	250	
	Psychology · Sociology · Education Cultural Anthropology total		732	73	2	22	13	0	842		
231			Japanese History	40	2	0	5	2	0	49	
232			Oriental History	107	5	1	0	0	1	114	
233			European History	113	6	1	0	1	2	123	
234			Archaeology (inclu. Prehistory)	58	3	0	1	6	2	70	
	History total		318	16	2	6	9	5	356		
241			Japanese Language	14	0	0	0	0	0	14	
242			Japanese Literature	32	5	0	3	0	0	40	
243			Chinese Language and Literature	76	2	0	0	0	0	78	
244			English Language and Literature	359	72	8	0	0	0	439	
245			French Language and Literature	113	8	0	0	0	1	122	
246			German Language and Literature	96	3	3	0	0	0	102	
247			Other Foreign Languages and Literatures	61	0	0	0	0	0	61	
248			Linguistics and Phonetics	154	22	3	3	1	0	183	
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	27	1	0	1	0	0	29	
			Literature total		932	113	14	7	1	1	1,068
	ARTS · HUMANITIES Total		2,409	262	22	36	30	7	2,766		
261	LAW		Basic Science of Law	30	1	0	0	0	0	31	
262			Public Law	54	6	0	0	0	0	60	
263			International Law	42	0	0	0	0	0	42	
264			Civil Law	65	3	0	0	0	2	70	
265			Social Law	18	0	0	0	0	0	18	
266			Criminal Law	23	0	0	0	0	1	24	
267			Politics	182	5	0	2	0	0	189	
	LAW Total		414	15	0	2	0	3	434		
271	ECONOMICS		General Theory of Economics	108	3	0	0	0	0	111	
272			Economical Statistics	25	1	0	0	0	0	26	
273			Economic Policy (inclu. Economic Condition)	158	5	0	0	0	0	163	
274			Economic History	68	1	0	0	0	0	69	
275			Public Finance, Money and Banking	47	2	0	0	0	0	49	
276			Commercial Science	33	2	0	0	0	0	35	
277			Business Administration	113	10	0	0	0	0	123	
278			Accounting	36	5	0	0	0	0	41	
	ECONOMICS Total		588	29	0	0	0	0	617		
301	SCIENCE		Algebra	67	1	1	0	0	0	69	
302			Geometry	64	0	1	0	0	0	65	
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	60	0	1	3	0	0	64	
305			Basic Analysis	52	0	2	0	0	0	54	
306			Larger-area Analysis	24	0	0	0	0	0	24	
			Mathematics total		267	1	5	3	0	0	276
311			Astronomy	23	0	0	12	1	0	36	
321			Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	178	0	0	26	0	0	204	

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			Solid State Physics I (Optical Properties, Semiconductor and Dielectrics)	42	1	0	1	0	0	44
323			Solid State Physics II (Magnetism, Metal Physics, Cryogenics)	84	1	0	3	0	0	88
324			Physical Properties in General (inclu. Basic Theories)	48	0	0	4	0	0	52
325			Physics in General	32	1	1	2	0	0	36
			Physics total	384	3	1	36	0	0	424
331			Physics of Solid Earth	57	0	0	2	0	0	59
332			Meteorology, Oceanography and Hydrology	77	0	1	5	0	0	83
333	S		Aeronomy	21	0	1	2	0	0	24
334	C		Geology	43	0	0	0	1	0	44
335	I		Stratigraphy and Paleontology	30	1	0	2	7	0	40
336			Mineralogy, Petrology and Study of Mineral Deposit	54	0	0	1	0	0	55
337	E		Geochemistry	47	1	0	2	0	0	50
			Earth Science total	329	2	2	14	8	0	355
341			Physical Chemistry	80	2	0	6	0	0	88
342	N		Organic Chemistry	44	0	3	1	0	0	48
343	C		Inorganic Chemistry	16	1	0	2	0	0	19
344	E		Function, Properties and Materials in Chemistry	31	0	0	0	1	0	32
345			Substance Transformation	5	0	0	0	0	0	5
346			Separation, Refining and Identification	17	1	0	0	0	0	18
			Chemistry total	193	4	3	9	1	0	210
351			Genetics	21	0	0	5	0	1	27
352			Ecology	114	3	0	2	2	3	124
353			Plant Physiology	39	2	0	1	0	0	42
354			Morphology, Structure of Organism	18	0	0	0	0	0	18
355			Animal Physiology and Metabolism	18	0	0	0	0	0	18
356			Morphology and Taxonomy	69	0	0	1	18	4	92
			Biology total	279	5	0	9	20	8	321
361			Physical Anthropology (inclu. Physiological Anthropology)	34	0	0	0	1	0	35
			SCIENCE Total	1,509	15	11	83	31	8	1,657
401			Applied Physics of Property and Crystallography	26	0	0	0	0	0	26
402			Surface Physics	14	0	2	0	0	0	16
403			Applied Optics and Quantum Optics	23	0	0	1	0	0	24
404			General Applied Physics	11	0	0	0	0	0	11
405	E		Fundamentals of Engineering	9	0	0	0	0	0	9
			Applied Physics·Fundamentals of Engineering total	83	0	2	1	0	0	86
411	G		Materials for Machines and Strength of Materials	56	0	2	0	0	0	58
412	I		Workshop Processes and Production Engineering	37	1	0	0	0	0	38
413	N		Design Engineering, Machine Elements and Tribology	15	0	2	1	0	0	18
414			Fluid Mechanics	53	0	0	1	0	0	54
415	E		Heat Engineering	47	0	5	0	0	0	52
416			Mechanics and Control Engineering	32	0	1	0	0	0	33
417	E		Intelligent Mechanics and Machine System	38	1	0	0	0	0	39
			Machine Engineering total	278	2	10	2	0	0	292
421	I		Electric Power Engineering and Electric Machinery	32	0	2	2	0	0	36
422	N		Electronic and Electric Materials Engineering	49	1	2	0	0	0	52
423	G		Electron Devices and Apparatus Engineering	31	0	1	0	0	0	32
424			Information and Communication Engineering	82	2	3	0	0	0	87
425			System Engineering	23	0	0	0	0	0	23
427			Electronic Measurements	21	0	2	0	0	0	23
428			Control Engineering	24	1	2	0	0	0	27

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
			Electric and Electronic Engineering total	262	4	12	2	0	0	280
431			Construction Materials and Dynamics in General Civil	12	0	1	0	0	0	13
432			Structural Engineering and Seismology	29	0	1	0	0	0	30
433			Ground Engineering	33	0	1	0	0	0	34
434			Hydraulics and River Engineering	40	1	0	0	0	0	41
435			Traffic Engineering and Regional Planning	28	0	1	0	0	0	29
436			Civil Environmental System	21	0	0	0	0	0	21
			Civil Engineering total	163	1	4	0	0	0	168
441	E		Building Structure and Materials	24	0	1	0	0	0	25
442	N		Building Science and Building Equipment	14	2	0	0	0	0	16
443			City Planning and Building Planning	93	5	4	0	0	0	102
444	G		Architectural History and Design	43	2	0	0	0	0	45
			Architecture total	174	9	5	0	0	0	188
451	I		Physical Metallurgy	32	0	1	0	0	0	33
452			Inorganic Materials and Properties	34	0	0	0	0	0	34
453	N		Composed Materials and Properties	7	1	1	0	0	0	9
454			Structural and Functional Materials	27	1	2	0	0	0	30
455	E		Metallurgy and Material Processing	15	1	2	0	0	1	19
456			Metal Productive Engineering	13	0	0	0	0	0	13
			Material Engineering total	128	3	6	0	0	1	138
461	R		Chemical Engineering in General	24	0	0	0	0	0	24
462			Reaction and Separation	19	0	2	0	0	0	21
463			Catalyst and Chemical Process	13	0	0	0	0	0	13
464	I		Bioengineering	23	0	0	0	0	0	23
465			Industrial Analytical Chemistry	7	0	0	0	0	0	7
			Process Engineering total	86	0	2	0	0	0	88
471			Industrial Physical Chemistry	20	0	0	0	0	0	20
472	G		Industrial Inorganic Chemistry	6	0	0	0	0	0	6
473			Industrial Organic Chemistry	11	0	0	0	0	0	11
474			Synthetic Chemistry	30	0	1	0	0	0	31
475			Polymer Synthesis	20	0	0	0	0	0	20
476			Polymer Structure and Property (inclu. Fiber)	25	0	0	1	0	0	26
			Industrial Chemistry total	112	0	1	1	0	0	114
481			Aeronautics	14	0	0	4	0	0	18
482			Ship Engineering	8	0	1	0	0	0	9
483			Marine Engineering	5	0	0	0	0	0	5
484			Resource Development Engineering	10	0	1	0	0	0	11
			Synthetic Engineering total	37	0	2	4	0	0	43
			ENGINEERING Total	1,323	19	44	10	0	1	1,397
501			Plant Breeding	17	0	0	0	0	0	17
502			Crop Science	19	1	0	0	0	0	20
503			Horticulture and Landscape Architecture	35	2	0	0	0	0	37
504			Plant Protection	33	0	0	0	0	0	33
505			Sericultural Science and Economic Entomology	4	0	0	0	0	0	4
			Agriculture total	108	3	0	0	0	0	111
511	A		Plant Fertilizer and Manure and Soil Science	38	0	0	0	0	0	38
512	G		Applied Microbiochemistry and Applied Biochemistry	46	3	0	0	0	0	49
513			Biological Productive Chemistry and Bioorganic Chemistry	19	0	0	0	0	0	19
514			Food Science and Nutritional Chemistry	33	9	0	0	0	0	42
			Agricultural Chemistry total	136	12	0	0	0	0	148
521			Forestry	53	0	0	0	0	0	53
522			Wood Science	20	1	0	0	0	0	21
			Forestry total	73	1	0	0	0	0	74
531			Fisheries in General	55	1	0	0	0	0	56
532			Fisheries Chemistry	10	0	0	0	0	0	10
			Fisheries total	65	1	0	0	0	0	66
541			Agricultural Economics	81	1	0	0	0	0	82

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
551	AGRICULTURE		Irrigation, Drainage and Reclamation Engineering and Rural Planning	36	1	0	0	0	1	38
552			Agricultural Machinery	20	1	0	0	0	0	21
553			Biological Environment	10	0	0	0	0	0	10
			Agricultural Engineering total	66	2	0	0	0	1	69
561			Animal Science and Grassland Science	20	0	0	0	0	0	20
562			Applied Animal Science	25	0	0	0	0	0	25
563			Basic Veterinary Medicine and Basic Animal Science	32	1	0	0	0	0	33
564			Applied Veterinary Medicine	23	0	0	0	0	1	24
			Animal Science· Veterinary Medicine total	100	1	0	0	0	1	102
571			Biological Resource Science	17	0	0	1	0	1	19
572			Applied Molecular Cell Biology	4	0	0	0	0	0	4
			Interdisciplinary Agricultural Science total	21	0	0	1	0	1	23
	AGRICULTURE Total			650	21	0	1	0	3	675
601	MEDICINE		Anatomy in General (inclu. Histology, Embryology)	35	1	0	0	0	0	36
602			Physiology in General	39	0	0	2	0	0	41
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional	12	2	0	0	0	0	14
604			Pharmacology in General	20	0	0	1	0	0	21
605			Medical Chemistry in General	20	0	0	0	0	0	20
606			Pathological Medical Chemistry	6	1	0	0	0	0	7
			Physiology total	132	4	0	3	0	0	139
611			Hominal Pathology	21	1	0	0	0	0	22
612			Experimental Pathology	12	0	0	0	0	0	12
613			Parasitology (inclu. Medical Zoology)	35	0	0	0	0	0	35
614			Bacteriology (inclu. Eumycetes)	25	1	0	0	0	1	27
615			Virology	25	0	0	0	0	0	25
616		Immunology	25	0	0	0	0	0	25	
		Pathology total	143	2	0	0	0	1	146	
621		Hygiene	16	0	0	0	0	0	16	
622		Public Health and Health Science	46	5	0	0	0	0	51	
623		Legal Medicine	10	0	0	0	0	0	10	
		Social Medicine total	72	5	0	0	0	0	77	
631		Internal Medicine in General	18	1	0	0	0	0	19	
632		Gastroenterology	23	0	0	0	0	0	23	
633		Internal Medicine Respiratory	22	0	0	0	0	0	22	
634		Neurological Medicine	24	0	0	0	0	0	24	
635		Cardioangiopathy	35	0	0	0	0	0	35	
636		Pediatrics	24	0	0	0	0	0	24	
637		Dermatology	26	0	0	0	0	0	26	
638		Radiology	32	0	0	0	0	0	32	
639		Neuropsychiatry	31	0	0	0	0	0	31	
641		Hematology	14	0	0	0	0	0	14	
642		Internal Medicine of Kidney	6	0	0	0	0	0	6	
643		Embryology and Newborn Medicine	0	0	0	0	0	0	0	
644		Endocrinology	10	0	0	0	0	0	10	
645		Metabolic Science	8	0	0	0	0	0	8	
		Internal Medicine total	273	1	0	0	0	0	274	
651		Surgery in General	17	0	0	0	0	0	17	
652		Gastroenterological Surgery	31	1	0	0	0	0	32	
653		Thoracic Surgery	22	0	0	0	0	0	22	
654		Neurosurgery	31	0	0	0	0	0	31	
655		Orthopedic Surgery	41	1	0	0	0	0	42	
656		Anesthesiology and Rescue	34	0	0	0	0	0	34	
657		Urology	23	0	0	0	0	0	23	
658		Obstetrics and Gynecology	22	0	0	0	0	0	22	
659		Oto-rhino-laryngology	23	0	0	0	0	0	23	
660		Ophthalmology	23	0	0	0	0	0	23	
661		Pediatric Surgery	6	0	0	0	0	0	6	
662		Formative Surgery	5	0	0	0	0	0	5	
		Surgery total	278	2	0	0	0	0	280	
671			Oral Anatomy and Morphological Basic Dentistry	21	0	0	0	0	0	21

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
672	M E D I C I N E		Functional Basic Dentistry	18	0	0	0	0	0	18
673			Morbid Dentistry (inclu. Dental Radiology)	6	0	0	0	0	0	6
674			Conservative Dentistry	22	0	0	0	0	0	22
675			Prosthodontics and Dental Technology	29	0	0	0	0	0	29
676			Oral Surgery	48	0	0	0	0	0	48
677			Orthodontics, Pedodontics and Social Dentistry	34	0	0	0	0	0	34
678			Periodontological Dentistry	5	0	0	0	0	0	5
			Dentistry total	183	0	0	0	0	0	0
681	C H E M I S T R Y		Chemical Pharmaceutics	40	1	0	0	0	1	42
682			Physical Pharmaceutics	17	0	0	0	0	0	17
683			Biopharmaceutics	57	0	0	0	0	1	58
684			Molecular Pharmaceutics	2	0	0	0	0	0	2
685			Environmental Pharmaceutics	1	0	0	0	0	0	1
	Pharmaceutics total	117	1	0	0	0	0	2	120	
691	E N V I R O N M E N T A L S C I E N C E		Medical Sociology	9	2	0	0	0	0	11
692			Human Genetics	2	0	0	0	0	0	2
693			Applied Pharmacology and Medical Pharmacology	11	0	0	0	0	0	11
694			Pathological Examination	5	0	0	0	0	0	5
696			Science of Basic and Local Nursing	20	6	0	0	0	0	26
697			Science of Clinical Nursing	16	2	0	0	0	0	18
	Medicine in General total	63	10	0	0	0	0	0	73	
	MEDICINE Total	1,261	25	0	3	0	3	3	1,292	
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)	11	2	0	0	0	0	13
703			Physical Education	108	10	1	0	0	0	119
704			Human Geography	81	1	0	0	0	0	82
705			Physical Geography	35	0	0	0	0	0	35
			Geography total	116	1	0	0	0	0	117
706			Home Science(inclu. Cloth/Living Environments)	11	9	0	0	0	0	20
707			Food Culture	7	3	0	0	0	0	10
			Domestic Science total	18	12	0	0	0	0	30
708			Science of Cultural Property	1	0	1	1	1	1	4
711			Science Education	9	2	0	0	2	0	13
712			Educational Engineering	9	2	0	3	0	0	14
713			Curriculum Studies	48	4	3	0	3	0	58
714			Japanese Language Education	22	1	0	0	1	0	24
			Science Education· Curriculum Education total	88	9	3	3	6	0	109
721			Statistics	14	0	0	2	0	0	16
731			Computer Science	55	1	0	0	0	0	56
732			Intelligent Informatics	55	2	2	0	0	0	59
733			Study of Information System (Inclu. Library and Information Science)	30	6	0	0	0	0	36
			Information Science total	140	9	2	0	0	0	151
741			Social System Engineering	25	1	0	0	0	0	26
751			Natural Disaster Science	8	0	0	0	0	0	8
761			Plasma Science and Technology	26	0	0	7	0	0	33
772			Nuclear Fusion	18	0	0	1	0	0	19
773			Energy Science General	12	0	0	0	0	0	12
774			Nuclear Power Science	7	1	0	2	0	0	10
			Energy total	37	1	0	3	0	0	41
801			Environmental Dynamic Analysis	25	1	0	0	0	0	26
802	Environmental Influence Assessment (inclu. Radiobiology)	20	1	1	1	0	0	23		
803	Environmental Preservation	29	0	0	0	0	0	29		
	Environmental Science total	74	2	1	1	0	0	78		
811	Biological Organic Chemistry	16	0	0	0	0	0	16		
812	Structured Biochemistry	17	0	0	0	0	0	17		
813	Functional Biochemistry	19	0	0	0	0	1	20		
	Biological Chemistry total	52	0	0	0	0	1	53		
821	Biophysics	18	0	0	1	0	0	19		
822	Molecular Biology	53	1	0	2	0	1	57		
823	Cell Biology	28	0	0	0	0	1	29		

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
824	L I N T A R R Y D I A S R C E I A P		Developmental Biology	20	0	0	3	0	0	23
			Basic Biology total	119	1	0	6	0	2	128
831			Neuroanatomy and Neuropathology	14	1	0	0	0	0	15
832			Neurochemistry and Neuropharmacology	10	0	0	0	0	0	10
833			Neuro Science in General	27	0	0	1	0	0	28
834			Neuro and Muscular Physiology	19	2	0	2	0	0	23
			Neuro Science (inclu. Brain Science) total	70	3	0	3	0	0	76
841			Laboratory Animal Science	4	0	0	0	0	0	4
851			Medical Organism Engineering and Material Science of Organism	30	0	0	0	0	0	30
			INTERDISCIPLINARY AREA Total	941	51	8	26	7	3	1,036
999		WIDE AREA Total	169	26	0	2	0	0	197	
		Item n.a. Total	56	7	0	0	0	0	63	
		Grand Total	9,320	470	85	163	68	28	10,134	

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	22	0	2	0	0	24
212			Chinese Philosophy	3	0	0	0	0	3
213			Indian Philosophy (inclu. Buddhist Studies)	9	0	1	1	0	11
214			Religion	16	0	0	0	0	16
215			Ethics	4	0	0	0	0	4
216			History of Philosophy	11	0	0	0	0	11
217			Aesthetics (inclu. Arts)	50	1	0	0	0	51
218			Art History	24	0	0	0	7	31
			Philosophy total	139	1	3	1	7	151
221			Experimental Psychology	26	0	0	2	1	29
222			Educational and Social Psychology	37	1	0	3	6	47
223			Sociology (inclu. Social Welfare)	50	0	0	2	0	52
224			Education	114	0	2	1	6	123
225			Cultural Anthropology (inclu. Ethnology and Folklore)	114	0	0	14	0	128
			Psychology · Sociology · Education Cultural Anthropology total	341	1	2	22	13	379
231	Japanese History	11	0	0	5	2	18		
232	Oriental History	54	0	1	0	0	55		
233	European History	40	0	0	0	1	41		
234	Archaeology (inclu. Prehistory)	30	0	0	1	6	37		
	History total	135	0	1	6	9	151		
241	Japanese Language	3	0	0	0	0	3		
242	Japanese Literature	9	0	0	3	0	12		
243	Chinese Language and Literature	25	0	0	0	0	25		
244	English Language and Literature	67	0	8	0	0	75		
245	French Language and Literature	37	0	0	0	0	37		
246	German Language and Literature	33	1	3	0	0	37		
247	Other Foreign Languages and Literatures	24	0	0	0	0	24		
248	Linguistics and Phonetics	57	1	3	3	1	65		
249	Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	10	0	0	1	0	11		
	Literature total	265	2	14	7	1	289		
	ARTS · HUMANITIES Total	880	4	20	36	30	970		
261	LAW		Basic Science of Law	16	0	0	0	0	16
262			Public Law	22	0	0	0	0	22
263			International Law	15	0	0	0	0	15
264			Civil Law	23	0	0	0	0	23
265			Social Law	8	0	0	0	0	8
266			Criminal Law	9	0	0	0	0	9
267			Politics	53	0	0	2	0	55
	LAW Total	146	0	0	2	0	148		
271	ECONOMICS		General Theory of Economics	39	0	0	0	0	39
272			Economical Statistics	12	0	0	0	0	12
273			Economic Policy (inclu. Economic Condition)	43	0	0	0	0	43
274			Economic History	27	0	0	0	0	27
275			Public Finance, Money and Banking	3	0	0	0	0	3
276			Commercial Science	3	0	0	0	0	3
277			Business Administration	24	0	0	0	0	24
278			Accounting	8	0	0	0	0	8
			ECONOMICS Total	159	0	0	0	0	159
301			SCIENCE		Algebra	44	0	1	0
302	Geometry	47			0	1	0	0	48
304	Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	36			0	1	3	0	40
305	Basic Analysis	36			0	2	0	0	38
306	Larger-area Analysis	16			0	0	0	0	16
	Mathematics total	179			0	5	3	0	187
311	Astronomy	18	0	0	12	1	31		
321			Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	142	0	0	26	0	168

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			Solid State Physics I (Optical Properties, Semiconductor and Dielectrics)	33	0	0	1	0	34
323			Solid State Physics II (Magnetism, Metal Physics, Cryogenics)	65	0	0	3	0	68
324			Physical Properties in General (inclu. Basic Theories)	35	0	0	4	0	39
325			Physics in General	21	1	1	2	0	25
			Physics total	296	1	1	36	0	334
331			Physics of Solid Earth	49	0	0	2	0	51
332			Meteorology, Oceanography and Hydrology	61	0	1	5	0	67
333	S		Aeronomy	19	0	1	2	0	22
334			Geology	33	0	0	0	1	34
335	C		Stratigraphy and Paleontology	25	0	0	2	7	34
336	I		Mineralogy, Petrology and Study of Mineral Deposit	49	0	0	1	0	50
337			Geochemistry	41	0	0	2	0	43
	E		Earth Science total	277	0	2	14	8	301
341			Physical Chemistry	61	1	0	6	0	68
342	N		Organic Chemistry	36	0	3	1	0	40
343			Inorganic Chemistry	13	0	0	2	0	15
344	C		Function, Properties and Materials in Chemistry	23	0	0	0	1	24
345	E		Substance Transformation	5	0	0	0	0	5
346			Separation, Refining and Identification	11	0	0	0	0	11
			Chemistry total	149	1	3	9	1	163
351			Genetics	19	0	0	5	0	24
352			Ecology	86	0	0	2	2	90
353			Plant Physiology	23	0	0	1	0	24
354			Morphology, Structure of Organism	10	0	0	0	0	10
355			Animal Physiology and Metabolism	15	0	0	0	0	15
356			Morphology and Taxonomy	52	0	0	1	18	71
			Biology total	205	0	0	9	20	234
361			Physical Anthropology (inclu. Physiological Anthropology)	23	0	0	0	1	24
			SCIENCE Total	1,147	2	11	83	31	1,274
401			Applied Physics of Property and Crystallography	22	0	0	0	0	22
402			Surface Physics	11	0	2	0	0	13
403			Applied Optics and Quantum	19	0	0	1	0	20
404			General Applied Physics	9	0	0	0	0	9
405	E		Fundamentals of Engineering	7	0	0	0	0	7
	N		Applied Physics-Fundamentals of Engineering total	68	0	2	1	0	71
411	G		Materials for Machines and Strength of Materials	37	0	2	0	0	39
412	I		Workshop Processes and Production Engineering	24	0	0	0	0	24
413	N		Design Engineering, Machine Elements and Tribology	9	0	2	1	0	12
414			Fluid Mechanics	38	0	0	1	0	39
415	E		Heat Engineering	39	0	5	0	0	44
416			Mechanics and Control Engineering	24	0	1	0	0	25
417	E		Intelligent Mechanics and Machine System	28	0	0	0	0	28
	R		Machine Engineering total	199	0	10	2	0	211
421	I		Electric Power Engineering and Electric Machinery	22	0	2	2	0	26
422	N		Electronic and Electric Materials Engineering	30	0	1	0	0	31
423	G		Electron Devices and Apparatus Engineering	16	0	1	0	0	17
424			Information and Communication Engineering	48	0	3	0	0	51
425			System Engineering	11	0	0	0	0	11
427			Electronic Measurements	15	0	2	0	0	17
428			Control Engineering	17	0	2	0	0	19

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
			Electric and Electronic Engineering total	159	0	11	2	0	172
431			Construction Materials and Dynamics in General Civil Engineering	8	0	1	0	0	9
432			Structural Engineering and Seismology	20	0	1	0	0	21
433			Ground Engineering	25	0	1	0	0	26
434			Hydraulics and River Engineering	30	0	0	0	0	30
435			Traffic Engineering and Regional Planning	18	0	1	0	0	19
436			Civil Environmental System	16	0	0	0	0	16
			Civil Engineering total	117	0	4	0	0	121
441	E		Building Structure and Materials	13	0	1	0	0	14
442	N		Building Science and Building Equipment	8	0	0	0	0	8
443	G		City Planning and Building Planning	44	1	4	0	0	49
444	I		Architectural History and Design	15	0	0	0	0	15
			Architecture total	80	1	5	0	0	86
451			Physical Metallurgy	31	0	1	0	0	32
452			Inorganic Materials and Properties	26	0	0	0	0	26
453			Composed Materials and	3	0	0	0	0	3
454			Structural and Functional Materials	20	0	2	0	0	22
455			Metallurgy and Material Processing	12	1	2	0	0	15
456			Metal Productive Engineering	12	0	0	0	0	12
			Material Engineering total	104	1	5	0	0	110
461			Chemical Engineering in General	19	0	0	0	0	19
462			Reaction and Separation	17	0	2	0	0	19
463			Catalyst and Chemical Process	10	0	0	0	0	10
464			Bioengineering	17	0	0	0	0	17
465			Industrial Analytical Chemistry	7	0	0	0	0	7
			Process Engineering total	70	0	2	0	0	72
471			Industrial Physical Chemistry	17	0	0	0	0	17
472			Industrial Inorganic Chemistry	5	0	0	0	0	5
473			Industrial Organic Chemistry	5	0	0	0	0	5
474			Synthetic Chemistry	25	0	1	0	0	26
475			Polymer Synthesis	14	0	0	0	0	14
476			Polymer Structure and Property (inclu. Fiber)	21	0	0	1	0	22
			Industrial Chemistry total	87	0	1	1	0	89
481			Aeronautics	12	0	0	4	0	16
482			Ship Engineering	7	0	1	0	0	8
483			Marine Engineering	5	0	0	0	0	5
484			Resource Development	10	0	0	0	0	10
			Synthetic Engineering total	34	0	1	4	0	39
			ENGINEERING Total	918	2	41	10	0	971
501			Plant Breeding	15	0	0	0	0	15
502			Crop Science	17	0	0	0	0	17
503			Horticulture and Landscape Architecture	19	0	0	0	0	19
504			Plant Protection	20	0	0	0	0	20
505			Sericultural Science and Economic Entomology	2	0	0	0	0	2
			Agriculture total	73	0	0	0	0	73
511	A		Plant Fertilizer and Manure and Soil Science	32	0	0	0	0	32
512	G		Applied Microbiochemistry and Applied Biochemistry	33	0	0	0	0	33
513	R		Biological Productive Chemistry and Bioorganic Chemistry	16	0	0	0	0	16
514	I		Food Science and Nutritional Chemistry	19	0	0	0	0	19
			Agricultural Chemistry total	100	0	0	0	0	100
521			Forestry	50	0	0	0	0	50
522			Wood Science	19	1	0	0	0	20
			Forestry total	69	1	0	0	0	70
531			Fisheries in General	48	0	0	0	0	48
532			Fisheries Chemistry	9	0	0	0	0	9
			Fisheries total	57	0	0	0	0	57
541			Agricultural Economics	53	0	0	0	0	53

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		
551	AGRICULTURE		Irrigation, Drainage and Reclamation Engineering and Rural	30	0	0	0	0	30		
552			Agricultural Machinery	18	0	0	0	0	18		
553			Biological Environment	7	0	0	0	0	7		
			Agricultural Engineering total	55	0	0	0	0	55		
561			Animal Science and Grassland Science	17	0	0	0	0	17		
562			Applied Animal Science	22	0	0	0	0	22		
563			Basic Veterinary Medicine and Basic Animal Science	27	0	0	0	0	27		
564			Applied Veterinary Medicine	17	0	0	0	0	17		
			Animal Science-Veterinary Medicine total	83	0	0	0	0	83		
571			Biological Resource Science	14	0	0	1	0	15		
572			Applied Molecular Cell Biology	3	0	0	0	0	3		
			Interdisciplinary Agricultural Science total	17	0	0	1	0	18		
			AGRICULTURE Total	507	1	0	1	0	509		
601	MEDICINE		Anatomy in General (inclu. Histology, Embryology)	23	0	0	0	0	23		
602			Physiology in General	23	0	0	2	0	25		
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional	5	2	0	0	0	7		
604			Pharmacology in General	14	0	0	1	0	15		
605			Medical Chemistry in General	10	0	0	0	0	10		
606			Pathological Medical Chemistry	3	0	0	0	0	3		
			Physiology total	78	2	0	3	0	83		
611			Hominal Pathology	11	1	0	0	0	12		
612			Experimental Pathology	9	0	0	0	0	9		
613			Parasitology (inclu. Medical	22	0	0	0	0	22		
614			Bacteriology (inclu. Eumycetes)	17	0	0	0	0	17		
615			Virology	20	0	0	0	0	20		
616			Immunology	17	0	0	0	0	17		
			Pathology total	96	1	0	0	0	97		
621			Hygiene	7	0	0	0	0	7		
622			Public Health and Health Science	27	1	0	0	0	28		
623			Legal Medicine	4	0	0	0	0	4		
			Social Medicine total	38	1	0	0	0	39		
631			INTERNAL MEDICINE		Internal Medicine in General	8	0	0	0	0	8
632					Gastroenterology	15	0	0	0	0	15
633					Internal Medicine Respiratory System	15	0	0	0	0	15
634					Neurological Medicine	16	0	0	0	0	16
635					Cardioangiology	16	0	0	0	0	16
636					Pediatrics	17	0	0	0	0	17
637					Dermatology	14	0	0	0	0	14
638					Radiology	25	0	0	0	0	25
639					Neuropsychiatry	16	0	0	0	0	16
641					Hematology	10	0	0	0	0	10
642					Internal Medicine of Kidney	4	0	0	0	0	4
643					Embryology and Newborn Medicine	0	0	0	0	0	0
644	Endocrinology	5			0	0	0	0	5		
645	Metabolic Science	3			0	0	0	0	3		
	Internal Medicine total	164	0	0	0	0	164				
651	SURGERY		Surgery in General	11	0	0	0	0	11		
652			Gastroenterological Surgery	17	0	0	0	0	17		
653			Thoracic Surgery	12	0	0	0	0	12		
654			Neurosurgery	18	0	0	0	0	18		
655			Orthopedic Surgery	20	0	0	0	0	20		
656			Anesthesiology and Rescue Medicine	18	0	0	0	0	18		
657			Urology	13	0	0	0	0	13		
658			Obstetrics and Gynecology	14	0	0	0	0	14		
659			Oto-rhino-laryngology	15	0	0	0	0	15		
660			Ophthalmology	12	0	0	0	0	12		
661			Pediatric Surgery	3	0	0	0	0	3		
662			Formative Surgery	2	0	0	0	0	2		
	Surgery total	155	0	0	0	0	155				

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	
671	M E D I C I N E		Oral Anatomy and Morphological Basic Dentistry	8	0	0	0	0	8	
672			Functional Basic Dentistry	8	0	0	0	0	8	
673			Morbid Dentistry (inclu. Dental Radiology)	1	0	0	0	0	1	
674			Conservative Dentistry	15	0	0	0	0	15	
675			Prosthodontics and Dental Technology	16	0	0	0	0	16	
676			Oral Surgery	27	0	0	0	0	27	
677			Orthodontics, Pedodontics and Social Dentistry	17	0	0	0	0	17	
678			Periodontological Dentistry	2	0	0	0	0	2	
			Dentistry total	94	0	0	0	0	0	94
681			C H E M I S T R Y		Chemical Pharmaceutics	18	0	0	0	0
682	Physical Pharmaceutics	6			0	0	0	0	6	
683	Biopharmaceutics	23			0	0	0	0	23	
684	Molecular Pharmaceutics	2			0	0	0	0	2	
685	Environmental Pharmaceutics	1			0	0	0	0	1	
	Pharmaceutics total	50	0	0	0	0	0	50		
691	E N V I R O N M E N T A L S C I E N C E		Medical Sociology	4	2	0	0	0	6	
692			Human Genetics	2	0	0	0	0	2	
693			Applied Pharmacology and Medical Pharmacology	4	0	0	0	0	4	
694			Pathological Examination	3	0	0	0	0	3	
696			Science of Basic and Local	6	1	0	0	0	7	
697			Science of Clinical Nursing	6	0	0	0	0	6	
			Medicine in General total	25	3	0	0	0	0	28
	MEDICINE Total	700	7	0	3	0	710			
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)	3	0	0	0	0	3	
703			Physical Education	50	1	1	0	0	52	
704			Human Geography	53	0	0	0	0	53	
705			Physical Geography	22	0	0	0	0	22	
			Geography total	75	0	0	0	0	75	
706			Home Science(inclu. Cloth/Living Environments)	2	0	0	0	0	2	
707			Food Culture	5	0	0	0	0	5	
			Domestic Science total	7	0	0	0	0	7	
708			Science of Cultural Property	0	0	1	1	1	3	
711			Science Education	9	0	0	0	2	11	
712	Educational Engineering	7	0	0	3	0	10			
713	Curriculum Studies	34	0	3	0	3	40			
714	Japanese Language Education	14	0	0	0	1	15			
	Science Education· Curriculum Education total	64	0	3	3	6	76			
721	Statistics	6	0	0	2	0	8			
731	Computer Science	35	1	0	0	0	36			
732	Intelligent Informatics	31	1	2	0	0	34			
733	Study of Information System (Inclu. Library and Information Science)	17	0	0	0	0	17			
	Information Science total	83	2	2	0	0	87			
741	Social System Engineering	15	0	0	0	0	15			
751	Natural Disaster Science	8	0	0	0	0	8			
761	Plasma Science and Technology	23	0	0	7	0	30			
772	Nuclear Fusion	17	0	0	1	0	18			
773	Energy Science General	9	0	0	0	0	9			
774	Nuclear Power Science	5	0	0	2	0	7			
	Energy total	31	0	0	3	0	34			
801	Environmental Dynamic Analysis	16	0	0	0	0	16			
802	Environmental Influence Assessment (inclu. Radiobiology)	15	1	1	1	0	18			
803	Environmental Preservation	17	0	0	0	0	17			
	Environmental Science total	48	1	1	1	0	51			
811	Biological Organic Chemistry	11	0	0	0	0	11			
812	Structured Biochemistry	10	0	0	0	0	10			
813	Functional Biochemistry	9	0	0	0	0	9			
	Biological Chemistry total	30	0	0	0	0	30			
821	Biophysics	14	0	0	1	0	15			

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
822	INTERDISCIPLINARY AREA		Molecular Biology	37	0	0	2	0	39
823			Cell Biology	23	0	0	0	0	23
824			Developmental Biology	16	0	0	3	0	19
			Basic Biology total	90	0	0	6	0	96
831			Neuroanatomy and Neuropathology	9	0	0	0	0	9
832			Neurochemistry and Neuropharmacology	6	0	0	0	0	6
833			Neuro Science in General	20	0	0	1	0	21
834			Neuro and Muscular Physiology	9	1	0	2	0	12
			Neuro Science (inclu. Brain Science) total	44	1	0	3	0	48
841			Laboratory Animal Science	3	0	0	0	0	3
851			Medical Organism Engineering and Material Science of Organism	21	0	0	0	0	21
			INTERDISCIPLINARY AREA Total	601	5	8	26	7	647
999			WIDE AREA Total	64	2	0	2	0	68
			Item n.a. Total	24	0	0	0	0	24
		Grand Total	5,146	23	80	163	68	5,480	

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	Philosophy	1	0	0	1	
212			Chinese Philosophy	2	2	0	4	
213			Indian Philosophy (inclu. Buddhist Studies)	2	1	0	3	
214			Religion	0	0	1	1	
215			Ethics	2	1	0	3	
216			History of Philosophy	8	1	0	9	
217			Aesthetics (inclu. Arts)	21	3	0	24	
218			Art History	7	0	0	7	
			Philosophy total	43	8	1	52	
221		Psychology · Sociology · Education	Cultural Anthropology (inclu. Ethnology and Folklore)	Experimental Psychology	2	0	0	2
222				Educational and Social Psychology	6	0	0	6
223				Sociology (inclu. Social Welfare)	21	3	0	24
224				Education	7	1	0	8
225				Cultural Anthropology (inclu. Ethnology and Folklore)	13	0	0	13
		Psychology · Sociology · Education Cultural Anthropology total	49	4	0	53		
231		History	Japanese History	1	0	0	1	
232			Oriental History	4	3	0	7	
233			European History	6	1	0	7	
234	Archaeology (inclu. Prehistory)		0	1	0	1		
	History total	11	5	0	16			
241	Literature	Japanese Language	0	0	0	0		
242		Japanese Literature	2	0	0	2		
243		Chinese Language and Literature	5	1	0	6		
244		English Language and Literature	25	2	0	27		
245		French Language and Literature	7	1	0	8		
246		German Language and Literature	6	0	0	6		
247		Other Foreign Languages and Literatures	1	0	0	1		
248		Linguistics and Phonetics	8	2	0	10		
249		Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	1	0	0	1		
	Literature total	55	6	0	61			
	ARTS · HUMANITIES Total	158	23	1	182			
261	LAW	Basic Science of Law	1	1	0	2		
262		Public Law	5	0	0	5		
263		International Law	0	0	0	0		
264		Civil Law	7	1	0	8		
265		Social Law	3	0	0	3		
266		Criminal Law	0	0	0	0		
267		Politics	14	2	0	16		
	LAW Total	30	4	0	34			
271	ECONOMICS	General Theory of Economics	13	1	0	14		
272		Economical Statistics	1	0	0	1		
273		Economic Policy (inclu. Economic Condition)	20	1	0	21		
274		Economic History	1	0	0	1		
275		Public Finance, Money and Banking	4	0	0	4		
276		Commercial Science	1	0	0	1		
277		Business Administration	5	0	0	5		
278		Accounting	6	0	0	6		
	ECONOMICS Total	51	2	0	53			
301	SCIENCE	Algebra	4	0	0	4		
302		Geometry	3	0	0	3		
304		Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	5	0	0	5		
305		Basic Analysis	3	0	0	3		
306		Larger-area Analysis	2	0	0	2		
		Mathematics total	17	0	0	17		
311	Astronomy	2	0	0	2			
321	Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	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
322			Solid State Physics I (Optical Properties, Semiconductor and Dielectrics)	0	0	0	0
323			Solid State Physics II (Magnetism, Metal Physics, Cryogenics)	8	0	0	8
324			Physical Properties in General (inclu. Basic Theories)	1	0	0	1
325			Physics in General	0	0	0	0
			Physics total	15	0	0	15
331			Physics of Solid Earth	2	0	0	2
332			Meteorology, Oceanography and Hydrology	4	0	0	4
333	S		Aeronomy	0	0	0	0
334			Geology	4	0	0	4
335	C		Stratigraphy and Paleontology	1	0	0	1
336	I		Mineralogy, Petrology and Study of Mineral Deposit	1	0	0	1
337			Geochemistry	3	0	0	3
			Earth Science total	15	0	0	15
341			Physical Chemistry	5	0	0	5
342	N		Organic Chemistry	3	0	0	3
343			Inorganic Chemistry	2	0	0	2
344	C		Function, Properties and Materials in Chemistry	2	0	0	2
345	E		Substance Transformation	0	0	0	0
346			Separation, Refining and Identification	0	0	0	0
			Chemistry total	12	0	0	12
351			Genetics	1	0	0	1
352			Ecology	11	0	0	11
353			Plant Physiology	11	0	0	11
354			Morphology, Structure of Organism	3	0	0	3
355			Animal Physiology and Metabolism	2	0	0	2
356			Morphology and Taxonomy	4	0	0	4
			Biology total	32	0	0	32
361			Physical Anthropology (inclu. Physiological Anthropology)	2	0	0	2
			SCIENCE Total	95	0	0	95
401			Applied Physics of Property and Crystallography	2	0	0	2
402			Surface Physics	1	0	0	1
403			Applied Optics and Quantum	1	0	0	1
404			General Applied Physics	0	0	0	0
405	E		Fundamentals of Engineering	0	0	0	0
			Applied Physics-Fundamentals of Engineering total	4	0	0	4
411	G		Materials for Machines and Strength of Materials	4	0	0	4
412	I		Workshop Processes and Production Engineering	2	1	0	3
413	N		Design Engineering, Machine Elements and Tribology	1	0	0	1
414			Fluid Mechanics	3	0	0	3
415	E		Heat Engineering	2	0	0	2
416			Mechanics and Control Engineering	2	0	0	2
417	E		Intelligent Mechanics and Machine System	1	0	0	1
			Machine Engineering total	15	1	0	16
421	I		Electric Power Engineering and Electric Machinery	1	0	0	1
422	N		Electronic and Electric Materials Engineering	4	0	1	5
423	G		Electron Devices and Apparatus Engineering	1	0	0	1
424			Information and Communication Engineering	4	0	0	4
425			System Engineering	4	0	0	4
427			Electronic Measurements	1	0	0	1
428			Control Engineering	1	0	0	1

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
			Electric and Electronic Engineering total	16	0	1	17
431			Construction Materials and Dynamics in General Civil Engineering	0	0	0	0
432			Structural Engineering and Seismology	1	0	0	1
433			Ground Engineering	1	0	0	1
434			Hydraulics and River Engineering	0	0	0	0
435			Traffic Engineering and Regional Planning	1	0	0	1
436			Civil Environmental System	0	0	0	0
			Civil Engineering total	3	0	0	3
441	E		Building Structure and Materials	1	0	0	1
442	N		Building Science and Building Equipment	0	0	0	0
443	G		City Planning and Building Planning	5	0	0	5
444	I		Architectural History and Design	3	1	0	4
			Architecture total	9	1	0	10
451			Physical Metallurgy	0	0	0	0
452			Inorganic Materials and Properties	2	0	0	2
453			Composed Materials and	1	0	1	2
454			Structural and Functional Materials	1	0	0	1
455			Metallurgy and Material Processing	1	0	0	1
456			Metal Productive Engineering	0	0	0	0
			Material Engineering total	5	0	1	6
461			Chemical Engineering in General	1	0	0	1
462			Reaction and Separation	0	0	0	0
463			Catalyst and Chemical Process	0	0	0	0
464			Bioengineering	1	0	0	1
465			Industrial Analytical Chemistry	0	0	0	0
			Process Engineering total	2	0	0	2
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	1	0	0	1
475			Polymer Synthesis	2	0	0	2
476			Polymer Structure and Property (inclu. Fiber)	1	0	0	1
			Industrial Chemistry total	6	0	0	6
481			Aeronautics	1	0	0	1
482			Ship Engineering	1	0	0	1
483			Marine Engineering	0	0	0	0
484			Resource Development	0	0	1	1
			Synthetic Engineering total	2	0	1	3
			ENGINEERING Total	62	2	3	67
501			Plant Breeding	1	0	0	1
502			Crop Science	1	0	0	1
503			Horticulture and Landscape Architecture	7	0	0	7
504			Plant Protection	2	0	0	2
505			Sericultural Science and Economic Entomology	0	0	0	0
			Agriculture total	11	0	0	11
511	A		Plant Fertilizer and Manure and Soil Science	2	0	0	2
512	G		Applied Microbiochemistry and Applied Biochemistry	5	1	0	6
513	R		Biological Productive Chemistry and Bioorganic Chemistry	1	0	0	1
514	I		Food Science and Nutritional Chemistry	5	1	0	6
			Agricultural Chemistry total	13	2	0	15
521			Forestry	2	0	0	2
522			Wood Science	0	0	0	0
			Forestry total	2	0	0	2
531			Fisheries in General	0	0	0	0
532			Fisheries Chemistry	0	0	0	0
			Fisheries total	0	0	0	0
541			Agricultural Economics	2	1	0	3

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	
551	A G R I C U L T U R E		Irrigation, Drainage and Reclamation Engineering and Rural	2	1	0	3	
552			Agricultural Machinery	1	0	0	1	
553			Biological Environment	1	0	0	1	
				Agricultural Engineering total	4	1	0	5
561				Animal Science and Grassland Science	0	0	0	0
562				Applied Animal Science	0	0	0	0
563				Basic Veterinary Medicine and Basic Animal Science	0	0	0	0
564				Applied Veterinary Medicine	2	0	0	2
				Animal Science-Veterinary Medicine total	2	0	0	2
571				Biological Resource Science	0	0	0	0
572				Applied Molecular Cell Biology	0	0	0	0
				Interdisciplinary Agricultural Science total	0	0	0	0
	AGRICULTURE Total			34	4	0	38	
601			Anatomy in General (inclu. Histology, Embryology)	6	0	0	6	
602			Physiology in General	3	0	0	3	
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional	2	0	0	2	
604			Pharmacology in General	0	0	0	0	
605			Medical Chemistry in General	5	0	0	5	
606			Pathological Medical Chemistry	2	0	0	2	
				Physiology total	18	0	0	18
611				Hominal Pathology	1	0	0	1
612				Experimental Pathology	2	0	0	2
613				Parasitology (inclu. Medical	1	0	0	1
614				Bacteriology (inclu. Eumycetes)	1	0	0	1
615				Virology	2	0	0	2
616	Immunology			3	0	0	3	
			Pathology total	10	0	0	10	
621	M		Hygiene	2	0	0	2	
622			Public Health and Health Science	5	2	0	7	
623			Legal Medicine	1	0	0	1	
			Social Medicine total	8	2	0	10	
631	D I C I N E		Internal Medicine in General	2	0	0	2	
632			Gastroenterology	2	0	0	2	
633			Internal Medicine Respiratory System	2	0	0	2	
634			Neurological Medicine	2	0	0	2	
635			Cardioangiology	4	0	0	4	
636			Pediatrics	3	0	0	3	
637			Dermatology	3	0	0	3	
638			Radiology	1	0	0	1	
639			Neuropsychiatry	3	0	0	3	
641			Hematology	1	0	0	1	
642			Internal Medicine of Kidney	1	0	0	1	
643			Embryology and Newborn Medicine	0	0	0	0	
644	Endocrinology	0	0	0	0			
645	Metabolic Science	0	0	0	0			
			Internal Medicine total	24	0	0	24	
651			Surgery in General	2	0	0	2	
652			Gastroenterological Surgery	2	0	0	2	
653			Thoracic Surgery	4	0	0	4	
654			Neurosurgery	3	0	0	3	
655			Orthopedic Surgery	3	1	0	4	
656			Anesthesiology and Rescue Medicine	7	0	0	7	
657			Urology	2	0	0	2	
658			Obstetrics and Gynecology	1	0	0	1	
659			Oto-rhino-laryngology	3	0	0	3	
660			Ophthalmology	3	0	0	3	
661			Pediatric Surgery	0	0	0	0	
662			Formative Surgery	0	0	0	0	
			Surgery total	30	1	0	31	

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
671	M	D	Oral Anatomy and Morphological Basic Dentistry	1	0	0	1
672			Functional Basic Dentistry	1	0	0	1
673			Morbid Dentistry (inclu. Dental Radiology)	0	0	0	0
674			Conservative Dentistry	0	0	0	0
675			Prosthodontics and Dental Technology	0	0	0	0
676			Oral Surgery	3	0	0	3
677			Orthodontics, Pedodontics and Social Dentistry	0	0	0	0
678			Periodontological Dentistry	0	0	0	0
			Dentistry total	5	0	0	5
681	C	I	Chemical Pharmaceutics	2	0	0	2
682			Physical Pharmaceutics	0	0	0	0
683			Biopharmaceutics	8	0	0	8
684			Molecular Pharmaceutics	0	0	0	0
685			Environmental Pharmaceutics	0	0	0	0
	Pharmaceutics total	10	0	0	10		
691	E	N	Medical Sociology	3	0	0	3
692			Human Genetics	0	0	0	0
693			Applied Pharmacology and Medical Pharmacology	0	0	0	0
694			Pathological Examination	1	0	0	1
696			Science of Basic and Local	12	4	0	16
697			Science of Clinical Nursing	5	0	0	5
	Medicine in General total	21	4	0	25		
	MEDICINE Total	126	7	0	133		
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)	2	0	0	2
703			Physical Education	6	1	0	7
704			Human Geography	7	0	0	7
705			Physical Geography	3	0	0	3
			Geography total	10	0	0	10
706			Home Science(inclu. Cloth/Living Environments)	0	0	0	0
707			Food Culture	1	0	0	1
			Domestic Science total	1	0	0	1
708			Science of Cultural Property	0	0	0	0
711			Science Education	0	0	0	0
712			Educational Engineering	0	0	0	0
713			Curriculum Studies	1	0	0	1
714			Japanese Language Education	2	0	0	2
			Science Education·Curriculum Education total	3	0	0	3
721	Statistics	1	0	0	1		
731	I	N	Computer Science	6	0	0	6
732			Intelligent Informatics	8	1	0	9
733			Study of Information System (Inclu. Library and Information)	3	0	0	3
	Information Science total	17	1	0	18		
741	Social System Engineering	3	0	0	3		
751	Natural Disaster Science	0	0	0	0		
761	Plasma Science and Technology	0	0	0	0		
772	A	R	Nuclear Fusion	0	0	0	0
773			Energy Science General	2	0	0	2
774			Nuclear Power Science	0	0	0	0
	Energy total	2	0	0	2		
801	E	N	Environmental Dynamic Analysis	3	0	0	3
802			Environmental Influence Assessment (inclu. Radiobiology)	2	0	0	2
803			Environmental Preservation	5	0	0	5
			Environmental Science total	10	0	0	10
811	B	I	Biological Organic Chemistry	1	0	0	1
812			Structured Biochemistry	6	0	0	6
813			Functional Biochemistry	3	0	0	3
	Biological Chemistry total	10	0	0	10		
821			Biophysics	0	0	0	0

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
822	INTERDISCIPLINARY AREA		Molecular Biology	2	0	0	2
823			Cell Biology	2	0	0	2
824			Developmental Biology	1	0	0	1
			Basic Biology total	5	0	0	5
831			Neuroanatomy and Neuropathology	0	0	0	0
832			Neurochemistry and Neuropharmacology	0	0	0	0
833			Neuro Science in General	0	0	0	0
834			Neuro and Muscular Physiology	3	0	0	3
			Neuro Science (inclu. Brain Science) total	3	0	0	3
841			Laboratory Animal Science	0	0	0	0
851		Medical Organism Engineering and Material Science of Organism	1	0	0	1	
	INTERDISCIPLINARY AREA Total			74	2	0	76
999	WIDE AREA Total			13	0	0	13
	Item n.a. Total			4	2	0	6
	Grand Total			647	46	4	697

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		
211	ARTS · HUMANITIES		Philosophy	33	5	0	0	38		
212			Chinese Philosophy	9	0	0	0	9		
213			Indian Philosophy (inclu. Buddhist Studies)	20	1	0	1	22		
214			Religion	30	4	0	0	34		
215			Ethics	4	1	0	0	5		
216			History of Philosophy	16	1	0	0	17		
217			Aesthetics (inclu. Arts)	102	35	0	0	137		
218			Art History	31	4	0	0	35		
			Philosophy total	245	51	0	1	297		
221					Experimental Psychology	14	0	0	0	14
222					Educational and Social	38	15	0	0	53
223					Sociology (inclu. Social Welfare)	136	16	0	0	152
224					Education	58	24	0	0	82
225					Cultural Anthropology (inclu. Ethnology and Folklore)	96	13	0	0	109
			Psychology · Sociology · Education Cultural Anthropology total	342	68	0	0	410		
231					Japanese History	28	2	0	0	30
232					Oriental History	49	2	0	1	52
233					European History	67	5	1	2	75
234	Archaeology (inclu. Prehistory)	28			2	0	2	32		
	History total	172	11	1	5	189				
241			Japanese Language	11	0	0	0	11		
242			Japanese Literature	21	5	0	0	26		
243			Chinese Language and Literature	46	1	0	0	47		
244			English Language and Literature	267	70	0	0	337		
245			French Language and Literature	69	7	0	1	77		
246			German Language and Literature	57	2	0	0	59		
247			Other Foreign Languages and Literatures	36	0	0	0	36		
248			Linguistics and Phonetics	89	19	0	0	108		
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	16	1	0	0	17		
			Literature total	612	105	0	1	718		
	ARTS · HUMANITIES Total	1,371	235	1	7	1,614				
261	LAW		Basic Science of Law	13	0	0	0	13		
262			Public Law	27	6	0	0	33		
263			International Law	27	0	0	0	27		
264			Civil Law	35	2	0	2	39		
265			Social Law	7	0	0	0	7		
266			Criminal Law	14	0	0	1	15		
267			Politics	115	3	0	0	118		
	LAW Total	238	11	0	3	252				
271	ECONOMICS		General Theory of Economics	56	2	0	0	58		
272			Economical Statistics	12	1	0	0	13		
273			Economic Policy (inclu. Economic Condition)	95	4	0	0	99		
274			Economic History	40	1	0	0	41		
275			Public Finance, Money and Banking	40	2	0	0	42		
276			Commercial Science	29	2	0	0	31		
277			Business Administration	84	10	0	0	94		
278			Accounting	22	5	0	0	27		
	ECONOMICS Total	378	27	0	0	405				
301	SCIENCE		Algebra	19	1	0	0	20		
302			Geometry	14	0	0	0	14		
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	19	0	0	0	19		
305			Basic Analysis	13	0	0	0	13		
306			Larger-area Analysis	6	0	0	0	6		
			Mathematics total	71	1	0	0	72		
311		Astronomy	3	0	0	0	3			
321		Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	30	0	0	0	30			

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			Solid State Physics I (Optical Properties, Semiconductor and Dielectrics)	9	1	0	0	10
323			Solid State Physics II (Magnetism, Metal Physics,	11	1	0	0	12
324			Physical Properties in General (inclu. Basic Theories)	12	0	0	0	12
325			Physics in General	11	0	0	0	11
			Physics total	73	2	0	0	75
331			Physics of Solid Earth	6	0	0	0	6
332			Meteorology, Oceanography and Hydrology	12	0	0	0	12
333	S		Aeronomy	2	0	0	0	2
334			Geology	6	0	0	0	6
335	C		Stratigraphy and Paleontology	4	1	0	0	5
336	I		Mineralogy, Petrology and Study of Mineral Deposit	4	0	0	0	4
337			Geochemistry	3	1	0	0	4
	E		Earth Science total	37	2	0	0	39
341			Physical Chemistry	14	1	0	0	15
342	N		Organic Chemistry	5	0	0	0	5
343			Inorganic Chemistry	1	1	0	0	2
344	C		Function, Properties and Materials in Chemistry	6	0	0	0	6
345	E		Substance Transformation	0	0	0	0	0
346			Separation, Refining and Identification	6	1	0	0	7
			Chemistry total	32	3	0	0	35
351			Genetics	1	0	0	1	2
352			Ecology	17	3	0	3	23
353			Plant Physiology	5	2	0	0	7
354			Morphology, Structure of	5	0	0	0	5
355			Animal Physiology and Metabolism	1	0	0	0	1
356			Morphology and Taxonomy	13	0	0	4	17
			Biology total	42	5	0	8	55
361			Physical Anthropology (inclu. Physiological Anthropology)	9	0	0	0	9
			SCIENCE Total	267	13	0	8	288
401			Applied Physics of Property and Crystallography	2	0	0	0	2
402			Surface Physics	2	0	0	0	2
403			Applied Optics and Quantum	3	0	0	0	3
404			General Applied Physics	2	0	0	0	2
405	E		Fundamentals of Engineering	2	0	0	0	2
	N		Applied Physics-Fundamentals of Engineering total	11	0	0	0	11
411	G		Materials for Machines and Strength of Materials	15	0	0	0	15
412	I		Workshop Processes and Production Engineering	11	0	0	0	11
413	N		Design Engineering, Machine Elements and Tribology	5	0	0	0	5
414			Fluid Mechanics	12	0	0	0	12
415	E		Heat Engineering	6	0	0	0	6
416			Mechanics and Control	6	0	0	0	6
417	E		Intelligent Mechanics and Machine System	9	1	0	0	10
	R		Machine Engineering total	64	1	0	0	65
421	I		Electric Power Engineering and Electric Machinery	9	0	0	0	9
422	N		Electronic and Electric Materials Engineering	15	1	0	0	16
423	G		Electron Devices and Apparatus Engineering	14	0	0	0	14
424			Information and Communication Engineering	30	2	0	0	32
425			System Engineering	8	0	0	0	8
427			Electronic Measurements	5	0	0	0	5
428			Control Engineering	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
			Electric and Electronic Engineering	87	4	0	0	91
431			Construction Materials and Dynamics in General Civil Engineering	4	0	0	0	4
432			Structural Engineering and Seismology	8	0	0	0	8
433			Ground Engineering	7	0	0	0	7
434			Hydraulics and River Engineering	10	1	0	0	11
435			Traffic Engineering and Regional Planning	9	0	0	0	9
436			Civil Environmental System	5	0	0	0	5
			Civil Engineering total	43	1	0	0	44
441	E		Building Structure and Materials	10	0	0	0	10
442	N		Building Science and Building Equipment	6	2	0	0	8
443			City Planning and Building	44	4	0	0	48
444	G		Architectural History and Design	25	1	0	0	26
			Architecture total	85	7	0	0	92
451	I		Physical Metallurgy	1	0	0	0	1
452			Inorganic Materials and Properties	6	0	0	0	6
453	N		Composed Materials and	3	1	0	0	4
454			Structural and Functional	6	1	0	0	7
455	E		Metallurgy and Material	2	0	0	1	3
456			Metal Productive Engineering	1	0	0	0	1
			Material Engineering total	19	2	0	1	22
461	R		Chemical Engineering in General	4	0	0	0	4
462			Reaction and Separation Engineering	2	0	0	0	2
463	I		Catalyst and Chemical Process	3	0	0	0	3
464			Bioengineering	5	0	0	0	5
465	N		Industrial Analytical Chemistry	0	0	0	0	0
			Process Engineering total	14	0	0	0	14
471	G		Industrial Physical Chemistry	1	0	0	0	1
472			Industrial Inorganic Chemistry	1	0	0	0	1
473			Industrial Organic Chemistry	6	0	0	0	6
474			Synthetic Chemistry	4	0	0	0	4
475			Polymer Synthesis	4	0	0	0	4
476			Polymer Structure and Property (inclu. Fiber)	3	0	0	0	3
			Industrial Chemistry total	19	0	0	0	19
481			Aeronautics	1	0	0	0	1
482			Ship Engineering	0	0	0	0	0
483			Marine Engineering	0	0	0	0	0
484			Resource Development	0	0	0	0	0
			Synthetic Engineering total	1	0	0	0	1
			ENGINEERING Total	343	15	0	1	359
501			Plant Breeding	1	0	0	0	1
502			Crop Science	1	1	0	0	2
503			Horticulture and Landscape Architecture	9	2	0	0	11
504			Plant Protection	11	0	0	0	11
505			Sericultural Science and Economic Entomology	2	0	0	0	2
			Agriculture total	24	3	0	0	27
511	A		Plant Fertilizer and Manure and Soil Science	4	0	0	0	4
512	R		Applied Microbiochemistry and Applied Biochemistry	8	2	0	0	10
513	I		Biological Productive Chemistry and Bioorganic Chemistry	2	0	0	0	2
514	C		Food Science and Nutritional Chemistry	9	8	0	0	17
			Agricultural Chemistry total	23	10	0	0	33
521			Forestry	1	0	0	0	1
522			Wood Science	1	0	0	0	1
			Forestry total	2	0	0	0	2
531			Fisheries in General	7	1	0	0	8
532			Fisheries Chemistry	1	0	0	0	1
			Fisheries total	8	1	0	0	9

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
541			Agricultural Economics	26	0	0	0	26
551	A G R I C U L T U R E		Irrigation, Drainage and Reclamation Engineering and	4	0	0	1	5
552			Agricultural Machinery	1	1	0	0	2
553			Biological Environment	2	0	0	0	2
			Agricultural Engineering total	7	1	0	1	9
561			Animal Science and Grassland Science	3	0	0	0	3
562			Applied Animal Science	3	0	0	0	3
563			Basic Veterinary Medicine and Basic Animal Science	5	1	0	0	6
564			Applied Veterinary Medicine	4	0	0	1	5
			Animal Science-Veterinary Medicine total	15	1	0	1	17
571			Biological Resource Science	3	0	0	1	4
572			Applied Molecular Cell Biology	1	0	0	0	1
			Interdisciplinary Agricultural Science total	4	0	0	1	5
		AGRICULTURE Total	109	16	0	3	128	
601	M E D I C I N E		Anatomy in General (inclu. Histology, Embryology)	6	1	0	0	7
602			Physiology in General	13	0	0	0	13
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	5	0	0	0	5
604			Pharmacology in General	6	0	0	0	6
605			Medical Chemistry in General	5	0	0	0	5
606			Pathological Medical Chemistry	1	1	0	0	2
			Physiology total	36	2	0	0	38
611			Hominal Pathology	9	0	0	0	9
612			Experimental Pathology	1	0	0	0	1
613			Parasitology (inclu. Medical)	12	0	0	0	12
614			Bacteriology (inclu. Eumycetes)	7	1	0	1	9
615			Virology	3	0	0	0	3
616		Immunology	5	0	0	0	5	
		Pathology total	37	1	0	1	39	
621		Hygiene	7	0	0	0	7	
622		Public Health and Health Science	14	2	0	0	16	
623		Legal Medicine	5	0	0	0	5	
		Social Medicine total	26	2	0	0	28	
631		Internal Medicine in General	8	1	0	0	9	
632		Gastroenterology	6	0	0	0	6	
633		Internal Medicine Respiratory System	5	0	0	0	5	
634		Neurological Medicine	6	0	0	0	6	
635		Cardioangiology	15	0	0	0	15	
636		Pediatrics	4	0	0	0	4	
637		Dermatology	9	0	0	0	9	
638		Radiology	6	0	0	0	6	
639		Neuropsychiatry	12	0	0	0	12	
641		Hematology	3	0	0	0	3	
642		Internal Medicine of Kidney	1	0	0	0	1	
643		Embryology and Newborn	0	0	0	0	0	
644		Endocrinology	5	0	0	0	5	
645		Metabolic Science	5	0	0	0	5	
		Internal Medicine total	85	1	0	0	86	
651		Surgery in General	4	0	0	0	4	
652		Gastroenterological Surgery	12	1	0	0	13	
653		Thoracic Surgery	6	0	0	0	6	
654		Neurosurgery	10	0	0	0	10	
655		Orthopedic Surgery	18	0	0	0	18	
656		Anesthesiology and Rescue Medicine	9	0	0	0	9	
657		Urology	8	0	0	0	8	
658		Obstetrics and Gynecology	7	0	0	0	7	
659		Oto-rhino-laryngology	5	0	0	0	5	
660		Ophthalmology	8	0	0	0	8	
661		Pediatric 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	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total
662			Formative Surgery	3	0	0	0	3
			Surgery total	93	1	0	0	94
671	M E D I C I N E		Oral Anatomy and Morphological Basic Dentistry	12	0	0	0	12
672			Functional Basic Dentistry	9	0	0	0	9
673			Morbid Dentistry (inclu. Dental Radiology)	5	0	0	0	5
674			Conservative Dentistry	7	0	0	0	7
675			Prosthodontics and Dental Technology	13	0	0	0	13
676			Oral Surgery	18	0	0	0	18
677			Orthodontics, Pedodontics and Social Dentistry	17	0	0	0	17
678			Periodontological Dentistry	3	0	0	0	3
			Dentistry total	84	0	0	0	84
681			C H E M I S T R Y		Chemical Pharmaceutics	20	1	0
682	Physical Pharmaceutics	11			0	0	0	11
683	Biopharmaceutics	26			0	0	1	27
684	Molecular Pharmaceutics	0			0	0	0	0
685	Environmental Pharmaceutics	0			0	0	0	0
	Pharmaceutics total	57	1	0	2	60		
691	E N V I R O N M E N T A L S C I E N C E		Medical Sociology	2	0	0	0	2
692			Human Genetics	0	0	0	0	0
693			Applied Pharmacology and Medical Pharmacology	7	0	0	0	7
694			Pathological Examination	1	0	0	0	1
696			Science of Basic and Local Nursing	2	1	0	0	3
697			Science of Clinical Nursing	5	2	0	0	7
			Medicine in General total	17	3	0	0	20
	MEDICINE Total	435	11	0	3	449		
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)	6	2	0	0	8
703			Physical Education	52	8	0	0	60
704			Human Geography	21	1	0	0	22
705			Physical Geography	10	0	0	0	10
			Geography total	31	1	0	0	32
706			Home Science (inclu. Cloth/Living Environments)	9	9	0	0	18
707			Food Culture	1	3	0	0	4
			Domestic Science total	10	12	0	0	22
708			Science of Cultural Property	1	0	0	0	1
711			Science Education	0	2	0	0	2
712			Educational Engineering	2	2	0	0	4
713			Curriculum Studies	13	4	0	0	17
714			Japanese Language Education	6	1	0	0	7
			Science Education· Curriculum Education total	21	9	0	0	30
721			Statistics	7	0	0	0	7
731			Computer Science	14	0	0	0	14
732			Intelligent Informatics	16	0	0	0	16
733			Study of Information System (Inclu. Library and Information)	10	6	0	0	16
			Information Science total	40	6	0	0	46
741	Social System Engineering	7	1	0	0	8		
751	Natural Disaster Science	0	0	0	0	0		
761	Plasma Science and Technology	3	0	0	0	3		
772	Nuclear Fusion	1	0	0	0	1		
773	Energy Science General	1	0	0	0	1		
774	Nuclear Power Science	2	1	0	0	3		
	Energy total	4	1	0	0	5		
801	Environmental Dynamic Analysis	6	1	0	0	7		
802	Environmental Influence Assessment (inclu. Radiobiology)	3	0	0	0	3		
803	Environmental Preservation	7	0	0	0	7		
	Environmental Science total	16	1	0	0	17		
811	Biological Organic Chemistry	4	0	0	0	4		
812	Structured Biochemistry	1	0	0	0	1		

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
813	INTERDISCIPLINARY AREA		Functional Biochemistry	7	0	0	1	8
			Biological Chemistry total	12	0	0	1	13
821			Biophysics	4	0	0	0	4
822			Molecular Biology	14	1	0	1	16
823			Cell Biology	3	0	0	1	4
824			Developmental Biology	3	0	0	0	3
			Basic Biology total	24	1	0	2	27
831			Neuroanatomy and	5	1	0	0	6
832			Neurochemistry and Neuropharmacology	4	0	0	0	4
833			Neuro Science in General	7	0	0	0	7
834			Neuro and Muscular Physiology	7	1	0	0	8
			Neuro Science (inclu. Brain Science) total	23	2	0	0	25
841			Laboratory Animal Science	1	0	0	0	1
851			Medical Organism Engineering and Material Science of Organism	8	0	0	0	8
		INTERDISCIPLINARY AREA Total	266	44	0	3	313	
999		WIDE AREA Total	92	24	0	0	116	
		Item n.a. Total	28	5	0	0	33	
		Grand Total	3,527	401	1	28	3,957	

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
211	ARTS · HUMANITIES		Philosophy	56	6	2	0	0	0	64
212			Chinese Philosophy	27	1	0	0	0	0	28
213			Indian Philosophy (inclu. Buddhist Studies)	29	4	1	0	0	1	35
214			Religion	52	3	1	0	0	0	56
215			Ethics	20	0	0	0	0	0	20
216			History of Philosophy	32	2	1	0	0	0	35
217			Aesthetics (inclu. Arts)	124	27	0	0	1	0	152
218			Art History	27	4	0	1	2	1	35
			Philosophy total	367	47	5	1	3	2	425
221			Experimental Psychology	128	5	0	1	0	0	134
222			Educational and Social	219	46	0	4	4	0	273
223			Sociology (inclu. Social Welfare)	237	14	0	2	0	0	253
224			Education	215	33	1	1	7	0	257
225			Cultural Anthropology (inclu. Ethnology and Folklore)	114	8	0	10	0	0	132
			Psychology · Sociology · Education Cultural Anthropology total	913	106	1	18	11	0	1,049
231			Japanese History	56	2	0	4	0	0	62
232			Oriental History	99	1	1	0	0	0	101
233			European History	59	1	0	0	0	1	61
234	Archaeology (inclu. Prehistory)	43	0	0	1	3	1	48		
	History total	257	4	1	5	3	2	272		
241	Japanese Language	25	3	0	0	1	0	29		
242	Japanese Literature	52	7	1	2	0	0	62		
243	Chinese Language and Literature	89	0	0	0	0	0	89		
244	English Language and Literature	326	50	6	0	0	0	382		
245	French Language and Literature	59	2	0	0	0	0	61		
246	German Language and Literature	48	1	0	0	0	0	49		
247	Other Foreign Languages and Literatures	54	0	0	0	0	0	54		
248	Linguistics and Phonetics	203	18	2	0	0	0	223		
249	Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	30	4	0	1	0	0	35		
	Literature total	886	85	9	3	1	0	984		
	ARTS · HUMANITIES Total	2,423	242	16	27	18	4	2,730		
261	LAW		Basic Science of Law	29	1	0	0	0	0	30
262			Public Law	36	3	0	0	0	0	39
263			International Law	49	0	0	0	0	0	49
264			Civil Law	60	2	0	0	0	1	63
265			Social Law	19	0	0	0	0	0	19
266			Criminal Law	32	2	0	0	0	1	35
267			Politics	183	5	0	2	0	0	190
	LAW Total	408	13	0	2	0	2	425		
271	ECONOMICS		General Theory of Economics	141	4	0	0	0	0	145
272			Economical Statistics	33	0	0	0	0	0	33
273			Economic Policy (inclu. Economic Condition)	197	5	0	0	0	0	202
274			Economic History	60	2	0	0	0	0	62
275			Public Finance, Money and Banking	51	3	0	0	0	0	54
276			Commercial Science	54	6	0	0	0	0	60
277			Business Administration	157	6	0	0	0	0	163
278			Accounting	54	6	0	0	0	0	60
	ECONOMICS Total	747	32	0	0	0	0	779		
301	SCIENCE		Algebra	114	1	2	0	0	0	117
302			Geometry	127	1	1	0	0	0	129
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	167	2	4	2	0	0	175
305			Basic Analysis	112	1	4	0	0	0	117
306			Larger-area Analysis	42	0	2	0	0	0	44
			Mathematics total	562	5	13	2	0	0	582
311	Astronomy	74	0	0	29	1	0	104		
321		Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	280	2	2	46	1	0	331	

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)	218	1	1	6	0	0	226
323			Solid State Physics II (Magnetism, Metal Physics,	265	4	0	10	0	0	279
324			Physical Properties in General (inclu. Basic Theories)	133	3	3	5	0	0	144
325			Physics in General	112	2	2	7	0	1	124
			Physics total	1,008	12	8	74	1	1	1,104
331			Physics of Solid Earth	138	1	0	6	0	0	145
332			Meteorology, Oceanography and Hydrology	115	0	2	6	0	0	123
333			Aeronomy	54	0	1	11	0	0	66
334			Geology	69	0	0	0	1	0	70
335			Stratigraphy and Paleontology	26	1	0	0	3	0	30
336	Mineralogy, Petrology and Study of Mineral Deposit	83	0	0	2	1	0	86		
337	Geochemistry	63	1	0	2	1	0	67		
	Earth Science total	548	3	3	27	6	0	587		
341	C H E M I S T R Y		Physical Chemistry	246	3	3	20	0	0	272
342			Organic Chemistry	180	0	3	2	0	2	187
343			Inorganic Chemistry	102	1	0	2	1	0	106
344			Function, Properties and Materials in Chemistry	126	1	2	3	1	0	133
345			Substance Transformation	10	0	0	0	0	0	10
346			Separation, Refining and Identification	51	1	1	0	0	0	53
	Chemistry total	715	6	9	27	2	2	761		
351	B I O L O G Y		Genetics	61	1	0	9	0	0	71
352			Ecology	119	2	0	4	2	4	131
353			Plant Physiology	108	1	0	5	0	0	114
354			Morphology, Structure of Organism	49	2	0	2	0	0	53
355			Animal Physiology and	56	0	0	1	0	0	57
356			Morphology and Taxonomy	54	1	0	2	7	3	67
	Biology total	447	7	0	23	9	7	493		
361		Physical Anthropology (inclu. Physiological Anthropology)	37	1	0	0	2	0	40	
	SCIENCE Total	3,391	34	33	182	21	10	3,671		
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	133	0	3	0	0	0	136
402			Surface Physics	97	0	1	0	0	0	98
403			Applied Optics and Quantum Optics	144	0	5	2	0	0	151
404			General Applied Physics	43	0	2	1	0	3	49
405			Fundamentals of Engineering	34	0	3	0	0	0	37
	Applied Physics-Fundamentals of Engineering total	451	0	14	3	0	3	471		
411	M A C H I N E E N G I N E E R I N G		Materials for Machines and Strength of Materials	274	1	18	2	0	0	295
412			Workshop Processes and Production Engineering	166	1	10	1	0	0	178
413			Design Engineering, Machine Elements and Tribology	113	3	4	1	0	0	121
414			Fluid Mechanics	241	0	9	2	0	0	252
415			Heat Engineering	246	3	13	3	0	0	265
416			Mechanics and Control Engineering	168	1	10	2	0	0	181
417			Intelligent Mechanics and Machine System	180	1	5	0	0	0	186
			Machine Engineering total	1,388	10	69	11	0	0	1,478
421	E L E C T R I C E N G I N E E R I N G		Electric Power Engineering and Electric Machinery	235	2	8	3	0	0	248
422			Electronic and Electric Materials Engineering	236	3	20	2	0	1	262
423			Electron Devices and Apparatus Engineering	242	2	13	3	0	1	261
424			Information and Communication Engineering	504	6	17	8	0	1	536

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Code	Subject	Subdivision	Item	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	137	1	4	2	0	0	144
427			Electronic Measurements	97	2	9	1	0	0	109
428			Control Engineering	134	1	11	1	0	0	147
			Electric and Electronic Engineering	1,585	17	82	20	0	3	1,707
431			Construction Materials and Dynamics in General Civil Engineering	79	1	7	0	0	0	87
432			Structural Engineering and Seismology	109	0	6	0	0	0	115
433			Ground Engineering	118	0	4	0	0	0	122
434			Hydraulics and River Engineering	151	2	7	0	0	0	160
435			Traffic Engineering and Regional Planning	104	1	1	0	0	0	106
436			Civil Environmental System	70	1	2	0	0	1	74
	Civil Engineering total	631	5	27	0	0	1	664		
441	E N G I N E E R I N G		Building Structure and Materials	142	0	2	0	1	0	145
442			Building Science and Building Equipment	86	4	2	0	0	1	93
443			City Planning and Building Planning	121	4	2	0	0	0	127
444			Architectural History and Design	20	0	0	0	2	0	22
			Architecture total	369	8	6	0	3	1	387
451			Physical Metallurgy	123	0	5	0	0	1	129
452			Inorganic Materials and	187	1	2	0	0	0	190
453			Composed Materials and Properties	51	1	4	0	0	0	56
454			Structural and Functional Materials	111	3	3	1	0	0	118
455			Metallurgy and Material	105	3	9	0	0	1	118
456	Metal Productive Engineering	66	1	4	0	0	0	71		
	Material Engineering total	643	9	27	1	0	2	682		
461	E N G I N E E R I N G		Chemical Engineering in General	122	0	3	0	0	0	125
462			Reaction and Separation Engineering	88	0	4	0	0	0	92
463			Catalyst and Chemical Process	57	0	2	0	0	0	59
464			Bioengineering	92	0	1	0	0	0	93
465			Industrial Analytical Chemistry	37	0	0	1	0	0	38
			Process Engineering total	396	0	10	1	0	0	407
471			Industrial Physical Chemistry	113	0	2	0	0	0	115
472			Industrial Inorganic Chemistry	47	0	2	0	0	0	49
473			Industrial Organic Chemistry	49	0	0	0	0	0	49
474			Synthetic Chemistry	87	0	2	0	0	0	89
475	Polymer Synthesis	106	0	1	0	0	0	107		
476	Polymer Structure and Property (inclu. Fiber)	109	3	2	0	0	0	114		
	Industrial Chemistry total	511	3	9	0	0	0	523		
481	E N G I N E E R I N G		Aeronautics	76	0	0	18	0	0	94
482			Ship Engineering	45	0	3	0	0	0	48
483			Marine Engineering	24	0	0	0	0	0	24
484			Resource Development Engineering	49	0	1	0	0	0	50
			Synthetic Engineering total	194	0	4	18	0	0	216
	ENGINEERING Total	6,168	52	248	54	3	10	6,535		
501	A G R I C U L T U R E		Plant Breeding	43	2	0	0	0	0	45
502			Crop Science	36	1	0	0	0	0	37
503			Horticulture and Landscape Architecture	90	2	0	0	0	0	92
504			Plant Protection	80	2	0	0	0	0	82
505			Sericultural Science and Economic Entomology	13	0	0	0	0	0	13
			Agriculture total	262	7	0	0	0	0	269
511			Plant Fertilizer and Manure and Soil Science	53	1	0	0	0	0	54
512			Applied Microbiochemistry and Applied Biochemistry	143	3	1	1	0	2	150
513			Biological Productive Chemistry and Bioorganic Chemistry	57	0	0	0	0	0	57
514			Food Science and Nutritional Chemistry	83	15	1	0	0	0	99

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Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Private Scientific Research Institutes	Total	
	A G R I C U L T U R E		Agricultural Chemistry total	336	19	2	1	0	2	360	
521			Forestry	59	0	0	0	0	0	59	
522			Wood Science	97	0	0	0	0	0	97	
				Forestry total	156	0	0	0	0	0	156
531				Fisheries in General	115	1	0	0	0	0	116
532				Fisheries Chemistry	30	0	0	0	0	0	30
				Fisheries total	145	1	0	0	0	0	146
541				Agricultural Economics	45	1	0	0	0	0	46
551				Irrigation, Drainage and Reclamation Engineering and Rural Planning	52	1	0	0	0	0	53
552				Agricultural Machinery	46	0	1	0	0	0	47
553				Biological Environment	21	0	0	0	0	0	21
				Agricultural Engineering total	119	1	1	0	0	0	121
561				Animal Science and Grassland Science	56	4	0	0	0	0	60
562				Applied Animal Science	59	0	0	0	0	0	59
563				Basic Veterinary Medicine and Basic Animal Science	69	1	0	0	1	0	71
564				Applied Veterinary Medicine	54	0	0	0	0	2	56
				Animal Science· Veterinary Medicine total	238	5	0	0	1	2	246
571				Biological Resource Science	24	0	0	0	0	0	24
572				Applied Molecular Cell Biology	10	1	0	0	0	0	11
				Interdisciplinary Agricultural Science total	34	1	0	0	0	0	35
				AGRICULTURE Total	1,335	35	3	1	1	4	1,379
601		M E D I C I N E		Anatomy in General (inclu. Histology, Embryology)	121	5	0	0	0	0	126
602				Physiology in General	133	3	0	6	0	0	142
603				Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	68	3	0	0	0	0	71
604				Pharmacology in General	151	1	0	1	0	1	154
605				Medical Chemistry in General	85	1	0	0	0	5	91
606				Pathological Medical Chemistry	50	1	0	0	0	1	52
				Physiology total	608	14	0	7	0	7	636
611				Hominal Pathology	153	5	0	0	0	2	160
612				Experimental Pathology	80	3	0	0	0	1	84
613				Parasitology (inclu. Medical Zoology)	31	1	0	0	0	0	32
614				Bacteriology (inclu. Eumycetes)	92	2	0	0	0	4	98
615				Virology	74	0	0	0	0	0	74
616				Immunology	128	3	0	0	0	3	134
				Pathology total	558	14	0	0	0	10	582
621				Hygiene	58	1	0	0	0	2	61
622				Public Health and Health	166	25	0	0	0	0	191
623				Legal Medicine	33	0	0	0	0	0	33
				Social Medicine total	257	26	0	0	0	2	285
631				Internal Medicine in General	169	3	0	0	0	2	174
632				Gastroenterology	241	0	0	0	0	1	242
633				Internal Medicine Respiratory System	142	1	0	0	0	1	144
634				Neurological Medicine	140	4	0	2	0	0	146
635				Cardioangiology	306	2	0	0	0	0	308
636				Pediatrics	177	6	0	0	0	1	184
637				Dermatology	127	0	0	0	0	0	127
638				Radiology	278	8	0	0	0	2	288
639				Neuropsychiatry	177	3	0	0	1	1	182
641			Hematology	128	2	0	0	0	1	131	
642			Internal Medicine of Kidney	101	1	0	0	0	0	102	
643			Embryology and Newborn	10	0	0	0	0	0	10	
644			Endocrinology	98	2	0	0	0	0	100	
645			Metabolic Science	90	2	0	0	0	0	92	
			Internal Medicine total	2,184	34	0	2	1	9	2,230	
651			Surgery in General	166	1	0	0	0	0	167	
652			Gastroenterological Surgery	238	2	0	0	0	2	242	
653			Thoracic Surgery	134	1	0	0	0	0	135	

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Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Inter-University Research Institutes	Government Research Institutes	Private Scientific Research Institutes	Total		
654	M	E	Neurosurgery	158	0	0	0	0	0	158		
655			Orthopedic Surgery	277	5	0	0	0	1	283		
656			Anesthesiology and Rescue Medicine	174	0	0	0	0	0	174		
657			Urology	146	0	0	0	0	0	146		
658			Obstetrics and Gynecology	161	1	0	0	0	0	162		
659			Oto-rhino-laryngology	130	1	0	0	0	0	131		
660			Ophthalmology	181	0	0	0	0	0	181		
661			Pediatric Surgery	37	1	0	0	0	0	38		
662			Formative Surgery	36	0	0	0	0	0	36		
			Surgery total			1,838	12	0	0	0	3	1,853
671			D	I	Oral Anatomy and Morphological Basic Dentistry	124	1	0	0	0	0	125
672					Functional Basic Dentistry	116	1	0	0	0	0	117
673					Morbid Dentistry (inclu. Dental Radiology)	79	0	0	0	0	0	79
674	Conservative Dentistry	186			1	0	0	0	0	187		
675	Prosthodontics and Dental Technology	216			2	0	0	0	0	218		
676	Oral Surgery	199			0	0	0	0	0	199		
677	Orthodontics, Pedodontics and Social Dentistry	212			2	0	0	0	0	214		
678	Periodontological Dentistry	41			1	0	0	0	0	42		
	Dentistry total			1,173	8	0	0	0	0	1,181		
681	N	E	Chemical Pharmaceutics	137	0	0	0	0	1	138		
682			Physical Pharmaceutics	65	0	0	0	0	0	65		
683			Biopharmaceutics	225	0	0	0	0	5	230		
684			Molecular Pharmaceutics	26	0	0	0	0	0	26		
685			Environmental Pharmaceutics	8	0	0	0	0	0	8		
	Pharmaceutics total			461	0	0	0	0	6	467		
691	M	E	Medical Sociology	33	1	0	0	0	0	34		
692			Human Genetics	17	0	0	0	0	1	18		
693			Applied Pharmacology and Medical Pharmacology	66	0	0	0	0	0	66		
694			Pathological Examination	38	8	0	0	0	0	46		
696			Science of Basic and Local Nursing	32	15	0	0	0	0	47		
697			Science of Clinical Nursing	42	16	0	0	0	0	58		
			Medicine in General total			228	40	0	0	0	1	269
	MEDICINE Total			7,307	148	0	9	1	38	7,503		
702	I	N	History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	24	1	0	0	0	0	25		
703			Physical Education	187	18	3	0	0	0	208		
704			Human Geography	49	1	0	0	0	0	50		
705			Physical Geography	25	0	0	0	0	0	25		
			Geography total			74	1	0	0	0	75	
706			Home Science (inclu. Cloth/Living Environments)	36	19	0	0	0	0	55		
707			Food Culture	18	16	0	0	0	0	34		
			Domestic Science total			54	35	0	0	0	89	
708			Science of Cultural Property	4	0	1	2	4	0	11		
711			Science Education	22	1	0	0	5	0	28		
712			Educational Engineering	31	1	2	7	2	0	43		
713			Curriculum Studies	91	7	2	0	1	0	101		
714			Japanese Language Education	30	0	0	0	2	0	32		
			Science Education·Curriculum Education total			174	9	4	7	10	0	204
721			Statistics	53	0	0	8	0	0	61		
731			Computer Science	331	3	4	5	0	0	343		
732			Intelligent Informatics	285	5	10	5	0	0	305		
733			Study of Information System (Inclu. Library and Information Science)	129	7	2	3	0	0	141		
			Information Science total			745	15	16	13	0	0	789
741	Social System Engineering	103	0	0	0	0	0	103				
751	Natural Disaster Science	18	0	1	0	0	0	19				
761	Plasma Science and Technology	143	0	5	14	0	0	162				
772	Nuclear Fusion	43	1	0	14	0	0	58				

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773			Energy Science General	26	0	0	0	0	0	26
774			Nuclear Power Science	66	1	1	2	0	0	70
			Energy total	135	2	1	16	0	0	154
801	I N T E R D I S C I P L I N A R Y A R E A		Environmental Dynamic Analysis	67	1	1	0	0	0	69
802			Environmental Influence Assessment (inclu. Radiobiology)	49	2	0	1	0	1	53
803			Environmental Preservation	75	1	1	0	0	1	78
			Environmental Science total	191	4	2	1	0	2	200
811	I N T E R D I S C I P L I N A R Y A R E A		Biological Organic Chemistry	43	0	0	0	0	2	45
812			Structured Biochemistry	73	1	0	0	0	0	74
813			Functional Biochemistry	84	0	1	0	0	0	85
			Biological Chemistry total	200	1	1	0	0	2	204
821	I N T E R D I S C I P L I N A R Y A R E A		Biophysics	81	0	1	4	0	0	86
822			Molecular Biology	222	2	0	17	0	3	244
823			Cell Biology	120	1	0	1	0	3	125
824			Developmental Biology	74	0	0	7	0	0	81
			Basic Biology total	497	3	1	29	0	6	536
831	I N T E R D I S C I P L I N A R Y A R E A		Neuroanatomy and Neuropathology	51	1	0	1	0	0	53
832			Neurochemistry and Neuropharmacology	64	0	0	0	0	0	64
833			Neuro Science in General	122	2	0	13	0	2	139
834			Neuro and Muscular Physiology	76	4	0	8	0	0	88
			Neuro Science (inclu. Brain Science) total	313	7	0	22	0	2	344
841	I N T E R D I S C I P L I N A R Y A R E A		Laboratory Animal Science	17	0	0	0	0	2	19
851			Medical Organism Engineering and Material Science of Organism	159	3	3	0	0	0	165
			INTERDISCIPLINARY AREA Total	3,091	99	38	112	14	14	3,368
999			WIDE AREA Total	268	29	0	4	0	0	301
			Item n.a. Total	134	9	0	1	0	0	144
			Grand Total	25,272	693	338	392	58	82	26,835

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	20	0	1	0	0	21	
212			Chinese Philosophy	8	0	0	0	0	8	
213			Indian Philosophy (inclu. Buddhist Studies)	6	0	1	0	0	7	
214			Religion	12	0	0	0	0	12	
215			Ethics	10	0	0	0	0	10	
216			History of Philosophy	8	0	1	0	0	9	
217			Aesthetics (inclu. Arts)	38	2	0	0	1	41	
218			Art History	13	0	0	1	2	16	
				Philosophy total	115	2	3	1	3	124
221				Experimental Psychology	72	1	0	1	0	74
222				Educational and Social	88	0	0	4	4	96
223				Sociology (inclu. Social Welfare)	49	0	0	2	0	51
224				Education	122	2	1	1	7	133
225				Cultural Anthropology (inclu. Ethnology and Folklore)	51	0	0	10	0	61
				Psychology · Sociology · Education Cultural Anthropology total	382	3	1	18	11	415
231				Japanese History	21	0	0	4	0	25
232				Oriental History	43	0	1	0	0	44
233				European History	15	0	0	0	0	15
234			Archaeology (inclu. Prehistory)	18	0	0	1	3	22	
			History total	97	0	1	5	3	106	
241			Japanese Language	10	0	0	0	1	11	
242			Japanese Literature	19	0	1	2	0	22	
243			Chinese Language and Literature	23	0	0	0	0	23	
244			English Language and Literature	53	0	6	0	0	59	
245			French Language and Literature	23	0	0	0	0	23	
246			German Language and Literature	10	0	0	0	0	10	
247			Other Foreign Languages and Literatures	25	0	0	0	0	25	
248			Linguistics and Phonetics	67	0	2	0	0	69	
249			Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	7	0	0	1	0	8	
			Literature total	237	0	9	3	1	250	
			ARTS · HUMANITIES Total	831	5	14	27	18	895	
261	LAW		Basic Science of Law	10	0	0	0	0	10	
262			Public Law	17	0	0	0	0	17	
263			International Law	20	0	0	0	0	20	
264			Civil Law	18	0	0	0	0	18	
265			Social Law	8	0	0	0	0	8	
266			Criminal Law	8	0	0	0	0	8	
267			Politics	56	0	0	2	0	58	
			LAW Total	137	0	0	2	0	139	
271	ECONOMICS		General Theory of Economics	52	0	0	0	0	52	
272			Economical Statistics	14	0	0	0	0	14	
273			Economic Policy (inclu. Economic Condition)	57	0	0	0	0	57	
274			Economic History	20	0	0	0	0	20	
275			Public Finance, Money and Banking	18	0	0	0	0	18	
276			Commercial Science	5	0	0	0	0	5	
277			Business Administration	30	0	0	0	0	30	
278			Accounting	13	2	0	0	0	15	
			ECONOMICS Total	209	2	0	0	0	211	
301	SCIENCE		Algebra	76	0	2	0	0	78	
302			Geometry	83	0	1	0	0	84	
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	96	0	3	2	0	101	
305			Basic Analysis	71	0	4	0	0	75	
306			Larger-area Analysis	29	0	2	0	0	31	
				Mathematics total	355	0	12	2	0	369
311			Astronomy	61	0	0	29	1	91	
321			Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	209	0	2	46	1	258	

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)	155	0	1	6	0	162
323			Solid State Physics II (Magnetism, Metal Physics,	209	0	0	10	0	219
324			Physical Properties in General (inclu. Basic Theories)	89	1	3	5	0	98
325			Physics in General	77	1	2	7	0	87
			Physics total	739	2	8	74	1	824
331			Physics of Solid Earth	128	0	0	6	0	134
332			Meteorology, Oceanography and Hydrology	95	0	2	6	0	103
333	S		Aeronomy	47	0	1	11	0	59
334			Geology	49	0	0	0	1	50
335	C		Stratigraphy and Paleontology	22	0	0	0	3	25
336	I		Mineralogy, Petrology and Study of Mineral Deposit	76	0	0	2	1	79
337			Geochemistry	50	0	0	2	1	53
			Earth Science total	467	0	3	27	6	503
341			Physical Chemistry	165	1	3	20	0	189
342	N		Organic Chemistry	124	0	3	2	0	129
343			Inorganic Chemistry	76	1	0	2	1	80
344	C		Function, Properties and Materials in Chemistry	90	0	2	3	1	96
345	E		Substance Transformation	8	0	0	0	0	8
346			Separation, Refining and Identification	31	0	1	0	0	32
			Chemistry total	494	2	9	27	2	534
351			Genetics	46	0	0	9	0	55
352			Ecology	87	1	0	4	2	94
353			Plant Physiology	80	0	0	5	0	85
354			Morphology, Structure of	37	1	0	2	0	40
355			Animal Physiology and Metabolism	41	0	0	1	0	42
356			Morphology and Taxonomy	39	0	0	2	7	48
			Biology total	330	2	0	23	9	364
361			Physical Anthropology (inclu. Physiological Anthropology)	27	0	0	0	2	29
			SCIENCE Total	2,473	6	32	182	21	2,714
401			Applied Physics of Property and Crystallography	102	0	3	0	0	105
402			Surface Physics	69	0	1	0	0	70
403			Applied Optics and Quantum	100	0	5	2	0	107
404	E		General Applied Physics	35	0	2	1	0	38
405			Fundamentals of Engineering	23	0	2	0	0	25
			Applied Physics·Fundamentals of Engineering total	329	0	13	3	0	345
411	G		Materials for Machines and Strength of Materials	180	0	17	2	0	199
412	I		Workshop Processes and Production Engineering	108	0	9	1	0	118
413	N		Design Engineering, Machine Elements and Tribology	80	1	3	1	0	85
414			Fluid Mechanics	159	0	6	2	0	167
415	E		Heat Engineering	171	1	11	3	0	186
416			Mechanics and Control	114	0	9	2	0	125
417	E		Intelligent Mechanics and Machine System	132	0	4	0	0	136
			Machine Engineering total	944	2	59	11	0	1,016
421	I		Electric Power Engineering and Electric Machinery	153	1	7	3	0	164
422	N		Electronic and Electric Materials Engineering	154	0	19	2	0	175
423	G		Electron Devices and Apparatus Engineering	158	0	12	3	0	173
424			Information and Communication Engineering	309	0	17	8	0	334
425			System Engineering	83	1	4	2	0	90
427			Electronic Measurements	62	0	8	1	0	71
428			Control Engineering	90	0	10	1	0	101

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	1,009	2	77	20	0	1,108
431			Construction Materials and Dynamics in General Civil Engineering	55	0	7	0	0	62
432			Structural Engineering and Seismology	72	0	6	0	0	78
433			Ground Engineering	92	0	4	0	0	96
434			Hydraulics and River Engineering	112	0	5	0	0	117
435			Traffic Engineering and Regional Planning	77	0	1	0	0	78
436			Civil Environmental System	53	0	2	0	0	55
			Civil Engineering total	461	0	25	0	0	486
441	E		Building Structure and Materials	92	0	2	0	1	95
442	N		Building Science and Building Equipment	49	0	2	0	0	51
443			City Planning and Building	65	0	2	0	0	67
444	G		Architectural History and Design	10	0	0	0	2	12
			Architecture total	216	0	6	0	3	225
451	I		Physical Metallurgy	103	0	5	0	0	108
452			Inorganic Materials and Properties	137	0	2	0	0	139
453	N		Composed Materials and	30	0	3	0	0	33
454			Structural and Functional	86	1	3	1	0	91
455	E		Metallurgy and Material	74	1	9	0	0	84
456			Metal Productive Engineering	60	0	4	0	0	64
			Material Engineering total	490	2	26	1	0	519
461	R		Chemical Engineering in General	102	0	3	0	0	105
462			Reaction and Separation Engineering	71	0	4	0	0	75
463	I		Catalyst and Chemical Process	45	0	2	0	0	47
464			Bioengineering	71	0	1	0	0	72
465	N		Industrial Analytical Chemistry	28	0	0	1	0	29
			Process Engineering total	317	0	10	1	0	328
471	G		Industrial Physical Chemistry	92	0	2	0	0	94
472			Industrial Inorganic Chemistry	38	0	2	0	0	40
473			Industrial Organic Chemistry	31	0	0	0	0	31
474			Synthetic Chemistry	65	0	2	0	0	67
475			Polymer Synthesis	73	0	1	0	0	74
476			Polymer Structure and Property (inclu. Fiber)	86	0	2	0	0	88
			Industrial Chemistry total	385	0	9	0	0	394
481			Aeronautics	50	0	0	18	0	68
482			Ship Engineering	37	0	3	0	0	40
483			Marine Engineering	13	0	0	0	0	13
484			Resource Development	45	0	1	0	0	46
			Synthetic Engineering total	145	0	4	18	0	167
			ENGINEERING Total	4,296	6	229	54	3	4,588
501			Plant Breeding	37	0	0	0	0	37
502			Crop Science	29	0	0	0	0	29
503			Horticulture and Landscape Architecture	63	0	0	0	0	63
504			Plant Protection	63	0	0	0	0	63
505			Sericultural Science and Economic Entomology	7	0	0	0	0	7
	A		Agriculture total	199	0	0	0	0	199
511	R		Plant Fertilizer and Manure and Soil Science	40	0	0	0	0	40
512	I		Applied Microbiochemistry and Applied Biochemistry	111	0	1	1	0	113
513	C		Biological Productive Chemistry and Bioorganic Chemistry	43	0	0	0	0	43
514	U		Food Science and Nutritional Chemistry	42	0	1	0	0	43
			Agricultural Chemistry total	236	0	2	1	0	239
521			Forestry	56	0	0	0	0	56
522			Wood Science	91	0	0	0	0	91
			Forestry total	147	0	0	0	0	147
531			Fisheries in General	92	0	0	0	0	92
532			Fisheries Chemistry	25	0	0	0	0	25
			Fisheries total	117	0	0	0	0	117

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	A G R I C U L T U R E		Agricultural Economics	29	0	0	0	0	29
551			Irrigation, Drainage and Reclamation Engineering and	42	0	0	0	0	42
552			Agricultural Machinery	43	0	1	0	0	44
553			Biological Environment	15	0	0	0	0	15
			Agricultural Engineering total	100	0	1	0	0	101
561			Animal Science and Grassland Science	44	0	0	0	0	44
562			Applied Animal Science	48	0	0	0	0	48
563			Basic Veterinary Medicine and Basic Animal Science	51	0	0	0	1	52
564			Applied Veterinary Medicine	32	0	0	0	0	32
			Animal Science· Veterinary Medicine total	175	0	0	0	1	176
571			Biological Resource Science	20	0	0	0	0	20
572			Applied Molecular Cell Biology	10	0	0	0	0	10
			Interdisciplinary Agricultural Science total	30	0	0	0	0	30
			AGRICULTURE Total	1,033	0	3	1	1	1,038
601		M E D I C I N E		Anatomy in General (inclu. Histology, Embryology)	59	1	0	0	0
602			Physiology in General	78	0	0	6	0	84
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	28	0	0	0	0	28
604			Pharmacology in General	71	0	0	1	0	72
605			Medical Chemistry in General	56	0	0	0	0	56
606			Pathological Medical Chemistry	32	0	0	0	0	32
			Physiology total	324	1	0	7	0	332
611			Hominal Pathology	77	3	0	0	0	80
612			Experimental Pathology	46	0	0	0	0	46
613			Parasitology (inclu. Medical)	14	0	0	0	0	14
614			Bacteriology (inclu. Eumycetes)	42	1	0	0	0	43
615			Virology	55	0	0	0	0	55
616			Immunology	82	2	0	0	0	84
			Pathology total	316	6	0	0	0	322
621			Hygiene	26	0	0	0	0	26
622			Public Health and Health Science	80	4	0	0	0	84
623			Legal Medicine	17	0	0	0	0	17
			Social Medicine total	123	4	0	0	0	127
631			Internal Medicine in General	82	1	0	0	0	83
632			Gastroenterology	136	0	0	0	0	136
633			Internal Medicine Respiratory System	70	1	0	0	0	71
634			Neurological Medicine	87	1	0	2	0	90
635			Cardioangiology	154	1	0	0	0	155
636			Pediatrics	89	2	0	0	0	91
637			Dermatology	62	0	0	0	0	62
638			Radiology	165	4	0	0	0	169
639			Neuropsychiatry	85	2	0	0	1	88
641			Hematology	78	2	0	0	0	80
642			Internal Medicine of Kidney	43	0	0	0	0	43
643			Embryology and Newborn	4	0	0	0	0	4
644			Endocrinology	63	1	0	0	0	64
645			Metabolic Science	55	1	0	0	0	56
		Internal Medicine total	1,173	16	0	2	1	1,192	
651		Surgery in General	74	1	0	0	0	75	
652		Gastroenterological Surgery	121	1	0	0	0	122	
653		Thoracic Surgery	63	1	0	0	0	64	
654		Neurosurgery	89	0	0	0	0	89	
655		Orthopedic Surgery	149	1	0	0	0	150	
656		Anesthesiology and Rescue Medicine	104	0	0	0	0	104	
657		Urology	77	0	0	0	0	77	
658		Obstetrics and Gynecology	85	0	0	0	0	85	
659		Oto-rhino-laryngology	77	0	0	0	0	77	
660		Ophthalmology	95	0	0	0	0	95	
661		Pediatric Surgery	28	0	0	0	0	28	

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	
662	M E D I C I N E		Formative Surgery	9	0	0	0	0	9	
			Surgery total	971	4	0	0	0	975	
671			Oral Anatomy and Morphological Basic Dentistry	40	0	0	0	0	40	
672			Functional Basic Dentistry	41	0	0	0	0	41	
673			Morbid Dentistry (inclu. Dental Radiology)	32	0	0	0	0	32	
674			Conservative Dentistry	85	0	0	0	0	85	
675			Prosthodontics and Dental Technology	94	0	0	0	0	94	
676			Oral Surgery	99	0	0	0	0	99	
677			Orthodontics, Pedodontics and Social Dentistry	108	0	0	0	0	108	
678			Periodontological Dentistry	18	0	0	0	0	18	
			Dentistry total	517	0	0	0	0	517	
681	C H E M I S T R Y		Chemical Pharmaceutics	53	0	0	0	0	53	
682			Physical Pharmaceutics	30	0	0	0	0	30	
683			Biopharmaceutics	92	0	0	0	0	92	
684			Molecular Pharmaceutics	15	0	0	0	0	15	
685			Environmental Pharmaceutics	2	0	0	0	0	2	
			Pharmaceutics total	192	0	0	0	0	192	
691	E N V I R O N M E N T A L		Medical Sociology	18	1	0	0	0	19	
692			Human Genetics	14	0	0	0	0	14	
693			Applied Pharmacology and Medical Pharmacology	28	0	0	0	0	28	
694			Pathological Examination	19	3	0	0	0	22	
696			Science of Basic and Local Nursing	15	8	0	0	0	23	
697			Science of Clinical Nursing	26	4	0	0	0	30	
			Medicine in General total	120	16	0	0	0	136	
			MEDICINE Total	3,736	47	0	9	1	3,793	
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	0	11	
703			Physical Education	91	2	3	0	0	96	
704			Human Geography	26	0	0	0	0	26	
705			Physical Geography	15	0	0	0	0	15	
				Geography total	41	0	0	0	0	41
706			Home Science (inclu. Cloth/Living Environments)	14	0	0	0	0	14	
707			Food Culture	7	0	0	0	0	7	
				Domestic Science total	21	0	0	0	0	21
708			Science of Cultural Property	4	0	1	2	4	11	
711			Science Education	17	0	0	0	5	22	
712		Educational Engineering	15	0	1	7	2	25		
713		Curriculum Studies	71	1	2	0	1	75		
714		Japanese Language Education	22	0	0	0	2	24		
			Science Education·Curriculum Education total	125	1	3	7	10	146	
721			Statistics	26	0	0	8	0	34	
731	I N F O R M A T I O N S C I E N C E		Computer Science	231	1	2	5	0	239	
732			Intelligent Informatics	201	2	9	5	0	217	
733			Study of Information System (Inclu. Library and Information)	63	0	2	3	0	68	
				Information Science total	495	3	13	13	0	524
741			Social System Engineering	55	0	0	0	0	55	
751			Natural Disaster Science	16	0	1	0	0	17	
761	A T O M I C S C I E N C E		Plasma Science and Technology	114	0	4	14	0	132	
772			Nuclear Fusion	38	0	0	14	0	52	
773			Energy Science General	24	0	0	0	0	24	
774			Nuclear Power Science	59	0	1	2	0	62	
			Energy total	121	0	1	16	0	138	
801	E N V I R O N M E N T A L		Environmental Dynamic Analysis	53	0	0	0	0	53	
802			Environmental Influence Assessment (inclu. Radiobiology)	36	1	0	1	0	38	
803			Environmental Preservation	42	0	1	0	0	43	
				Environmental Science total	131	1	1	1	0	134
811	C H E M I S T R Y		Biological Organic Chemistry	34	0	0	0	0	34	
812			Structured Biochemistry	45	0	0	0	0	45	

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	INTERDISCIPLINARY AREA		Functional Biochemistry	49	0	1	0	0	50
			Biological Chemistry total	128	0	1	0	0	129
821			Biophysics	59	0	1	4	0	64
822			Molecular Biology	164	0	0	17	0	181
823			Cell Biology	95	0	0	1	0	96
824			Developmental Biology	57	0	0	7	0	64
			Basic Biology total	375	0	1	29	0	405
831			Neuroanatomy and	26	0	0	1	0	27
832			Neurochemistry and Neuropharmacology	35	0	0	0	0	35
833			Neuro Science in General	77	0	0	13	0	90
834			Neuro and Muscular Physiology	43	2	0	8	0	53
			Neuro Science (inclu. Brain Science) total	181	2	0	22	0	205
841			Laboratory Animal Science	14	0	0	0	0	14
851			Medical Organism Engineering and Material Science of Organism	100	1	2	0	0	103
			INTERDISCIPLINARY AREA Total	2,049	10	31	112	14	2,216
999			WIDE AREA Total	103	2	0	4	0	109
			Item n.a. Total	73	1	0	1	0	75
		Grand Total	14,940	79	309	392	58	15,778	

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	2	0	1	3
212			Chinese Philosophy	1	0	0	1
213			Indian Philosophy (inclu. Buddhist Studies)	1	0	0	1
214			Religion	1	0	1	2
215			Ethics	2	0	0	2
216			History of Philosophy	3	1	0	4
217			Aesthetics (inclu. Arts)	8	1	0	9
218			Art History	2	0	0	2
			Philosophy total	20	2	2	24
221			Experimental Psychology	9	1	0	10
222			Educational and Social	11	2	0	13
223			Sociology (inclu. Social Welfare)	27	2	0	29
224			Education	14	1	0	15
225			Cultural Anthropology (inclu. Ethnology and Folklore)	5	0	0	5
			Psychology · Sociology · Education Cultural Anthropology total	66	6	0	72
231			Japanese History	3	0	0	3
232			Oriental History	4	0	0	4
233			European History	4	0	0	4
234		Archaeology (inclu. Prehistory)	1	0	0	1	
		History total	12	0	0	12	
241		Japanese Language	1	0	0	1	
242		Japanese Literature	1	1	0	2	
243		Chinese Language and Literature	4	0	0	4	
244		English Language and Literature	19	1	0	20	
245		French Language and Literature	2	0	0	2	
246		German Language and Literature	3	0	0	3	
247		Other Foreign Languages and Literatures	1	0	0	1	
248		Linguistics and Phonetics	10	1	0	11	
249		Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	2	0	0	2	
		Literature total	43	3	0	46	
		ARTS · HUMANITIES Total	141	11	2	154	
261	LAW		Basic Science of Law	1	0	0	1
262			Public Law	1	0	0	1
263			International Law	1	0	0	1
264			Civil Law	4	0	0	4
265			Social Law	3	0	0	3
266			Criminal Law	1	0	0	1
267			Politics	14	1	0	15
		LAW Total	25	1	0	26	
271	ECONOMICS		General Theory of Economics	14	1	0	15
272			Economical Statistics	0	0	0	0
273			Economic Policy (inclu. Economic Condition)	17	0	0	17
274			Economic History	3	0	0	3
275			Public Finance, Money and Banking	3	0	0	3
276			Commercial Science	4	0	0	4
277			Business Administration	6	0	0	6
278			Accounting	6	0	0	6
		ECONOMICS Total	53	1	0	54	
301	SCIENCE		Algebra	5	0	0	5
302			Geometry	11	0	0	11
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	10	0	1	11
305			Basic Analysis	5	0	0	5
306			Larger-area Analysis	2	0	0	2
			Mathematics total	33	0	1	34
311		Astronomy	3	0	0	3	
321		Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	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	
322	S C I E N C E		Solid State Physics I (Optical Properties, Semiconductor and Dielectrics)	9	0	0	9	
323			Solid State Physics II (Magnetism, Metal Physics,	15	0	0	15	
324			Physical Properties in General (inclu. Basic Theories)	3	0	0	3	
325			Physics in General	5	0	0	5	
			Physics total	44	1	0	45	
331			Physics of Solid Earth	2	0	0	2	
332			Meteorology, Oceanography and Hydrology	7	0	0	7	
333			Aeronomy	0	0	0	0	
334			Geology	8	0	0	8	
335			Stratigraphy and Paleontology	1	0	0	1	
336			Mineralogy, Petrology and Study of Mineral Deposit	1	0	0	1	
337			Geochemistry	3	0	0	3	
		Earth Science total	22	0	0	22		
341			Physical Chemistry	18	0	0	18	
342			Organic Chemistry	11	0	0	11	
343			Inorganic Chemistry	6	0	0	6	
344			Function, Properties and Materials in Chemistry	5	0	0	5	
345			Substance Transformation	0	0	0	0	
346			Separation, Refining and Identification	2	0	0	2	
			Chemistry total	42	0	0	42	
351			Genetics	10	0	0	10	
352			Ecology	13	0	0	13	
353			Plant Physiology	16	0	0	16	
354			Morphology, Structure of Organism	2	0	0	2	
355			Animal Physiology and	4	0	0	4	
356			Morphology and Taxonomy	1	0	0	1	
	Biology total	46	0	0	46			
361			Physical Anthropology (inclu. Physiological Anthropology)	1	0	0	1	
	SCIENCE Total			191	1	1	193	
401	E N G I N E E R I N G		Applied Physics of Property and Crystallography	8	0	0	8	
402			Surface Physics	5	0	0	5	
403			Applied Optics and Quantum Optics	9	0	0	9	
404			General Applied Physics	1	0	0	1	
405			Fundamentals of Engineering	2	0	1	3	
		Applied Physics- Fundamentals of Engineering total	25	0	1	26		
411				Materials for Machines and Strength of Materials	10	0	1	11
412				Workshop Processes and Production Engineering	9	1	1	11
413				Design Engineering, Machine Elements and Tribology	1	0	1	2
414				Fluid Mechanics	13	0	3	16
415				Heat Engineering	8	0	2	10
416				Mechanics and Control Engineering	10	0	1	11
417				Intelligent Mechanics and Machine System	7	0	1	8
	Machine Engineering total	58	1	10	69			
421			Electric Power Engineering and Electric Machinery	12	0	1	13	
422			Electronic and Electric Materials Engineering	8	0	1	9	
423			Electron Devices and Apparatus Engineering	10	0	1	11	
424			Information and Communication Engineering	35	1	0	36	

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
425	E N G I N E E R I N G		System Engineering	9	0	0	9
427			Electronic Measurements	2	0	0	2
428			Control Engineering	10	0	1	11
			Electric and Electronic Engineering	86	1	4	91
431			Construction Materials and Dynamics in General Civil Engineering	3	0	0	3
432			Structural Engineering and Seismology	2	0	0	2
433			Ground Engineering	2	0	0	2
434			Hydraulics and River Engineering	3	0	2	5
435			Traffic Engineering and Regional Planning	2	0	0	2
436			Civil Environmental System	1	0	0	1
			Civil Engineering total	13	0	2	15
441			Building Structure and Materials	11	0	0	11
442			Building Science and Building Equipment	3	2	0	5
443			City Planning and Building Planning	9	0	0	9
444			Architectural History and Design	1	0	0	1
			Architecture total	24	2	0	26
451			Physical Metallurgy	5	0	0	5
452			Inorganic Materials and	4	0	0	4
453			Composed Materials and Properties	6	0	1	7
454			Structural and Functional Materials	7	0	0	7
455			Metallurgy and Material	3	0	0	3
456			Metal Productive Engineering	0	0	0	0
			Material Engineering total	25	0	1	26
461	Chemical Engineering in General	4	0	0	4		
462	Reaction and Separation Engineering	3	0	0	3		
463	Catalyst and Chemical Process	1	0	0	1		
464	Bioengineering	4	0	0	4		
465	Industrial Analytical Chemistry	5	0	0	5		
	Process Engineering total	17	0	0	17		
471	Industrial Physical Chemistry	10	0	0	10		
472	Industrial Inorganic Chemistry	3	0	0	3		
473	Industrial Organic Chemistry	2	0	0	2		
474	Synthetic Chemistry	6	0	0	6		
475	Polymer Synthesis	8	0	0	8		
476	Polymer Structure and Property (inclu. Fiber)	3	1	0	4		
	Industrial Chemistry total	32	1	0	33		
481	Aeronautics	4	0	0	4		
482	Ship Engineering	3	0	0	3		
483	Marine Engineering	3	0	0	3		
484	Resource Development Engineering	0	0	0	0		
	Synthetic Engineering total	10	0	0	10		
	ENGINEERING Total	290	5	18	313		
501	A G R I C U L T U R E		Plant Breeding	3	1	0	4
502			Crop Science	3	1	0	4
503			Horticulture and Landscape Architecture	11	1	0	12
504			Plant Protection	2	1	0	3
505			Sericultural Science and Economic Entomology	0	0	0	0
			Agriculture total	19	4	0	23
511			Plant Fertilizer and Manure and Soil Science	4	1	0	5
512			Applied Microbiochemistry and Applied Biochemistry	8	0	0	8
513			Biological Productive Chemistry and Bioorganic Chemistry	6	0	0	6
514			Food Science and Nutritional Chemistry	13	3	0	16

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	
			Agricultural Chemistry total	31	4	0	35	
521			Forestry	1	0	0	1	
522			Wood Science	6	0	0	6	
			Forestry total	7	0	0	7	
531			Fisheries in General	3	0	0	3	
532			Fisheries Chemistry	3	0	0	3	
			Fisheries total	6	0	0	6	
541			Agricultural Economics	1	1	0	2	
551	A G R I C U L T U R E		Irrigation, Drainage and Reclamation Engineering and Rural Planning	1	1	0	2	
552			Agricultural Machinery	1	0	0	1	
553			Biological Environment	2	0	0	2	
			Agricultural Engineering total	4	1	0	5	
561			Animal Science and Grassland Science	0	3	0	3	
562			Applied Animal Science	1	0	0	1	
563			Basic Veterinary Medicine and Basic Animal Science	3	0	0	3	
564			Applied Veterinary Medicine	2	0	0	2	
			Animal Science· Veterinary Medicine total	6	3	0	9	
571				Biological Resource Science	1	0	0	1
572			Applied Molecular Cell Biology	0	0	0	0	
			Interdisciplinary Agricultural Science total	1	0	0	1	
			AGRICULTURE Total	75	13	0	88	
601	M E D I C I N E		Anatomy in General (inclu. Histology, Embryology)	11	0	0	11	
602			Physiology in General	12	0	0	12	
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	6	0	0	6	
604			Pharmacology in General	10	0	0	10	
605			Medical Chemistry in General	6	0	0	6	
606			Pathological Medical Chemistry	5	0	0	5	
				Physiology total	50	0	0	50
611				Hominal Pathology	11	0	0	11
612				Experimental Pathology	14	0	0	14
613				Parasitology (inclu. Medical Zoology)	3	0	0	3
614				Bacteriology (inclu. Eumycetes)	5	0	0	5
615				Virology	5	0	0	5
616				Immunology	7	0	0	7
				Pathology total	45	0	0	45
621				Hygiene	5	0	0	5
622				Public Health and Health	18	8	0	26
623				Legal Medicine	3	0	0	3
				Social Medicine total	26	8	0	34
631				Internal Medicine in General	13	0	0	13
632				Gastroenterology	20	0	0	20
633				Internal Medicine Respiratory System	7	0	0	7
634				Neurological Medicine	7	0	0	7
635				Cardioangiology	29	0	0	29
636				Pediatrics	25	0	0	25
637				Dermatology	19	0	0	19
638				Radiology	15	0	0	15
639				Neuropsychiatry	19	0	0	19
641				Hematology	4	0	0	4
642				Internal Medicine of Kidney	12	0	0	12
643				Embryology and Newborn	1	0	0	1
644			Endocrinology	4	0	0	4	
645			Metabolic Science	6	0	0	6	
			Internal Medicine total	181	0	0	181	
651			Surgery in General	12	0	0	12	
652			Gastroenterological Surgery	15	0	0	15	
653			Thoracic Surgery	10	0	0	10	

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	10	0	0	10		
655			Orthopedic Surgery	26	3	0	29		
656			Anesthesiology and Rescue Medicine	20	0	0	20		
657			Urology	16	0	0	16		
658			Obstetrics and Gynecology	16	0	0	16		
659			Oto-rhino-laryngology	11	1	0	12		
660			Ophthalmology	23	0	0	23		
661			Pediatric Surgery	0	0	0	0		
662			Formative Surgery	2	0	0	2		
			Surgery total	161	4	0	165		
671			E	D	Oral Anatomy and Morphological Basic Dentistry	2	0	0	2
672					Functional Basic Dentistry	2	0	0	2
673					Morbid Dentistry (inclu. Dental Radiology)	3	0	0	3
674					Conservative Dentistry	4	0	0	4
675					Prosthodontics and Dental Technology	1	0	0	1
676	Oral Surgery	12			0	0	12		
677	Orthodontics, Pedodontics and Social Dentistry	4			0	0	4		
678	Periodontological Dentistry	3			0	0	3		
	Dentistry total	31	0	0	31				
681	N	E	Chemical Pharmaceutics	8	0	0	8		
682			Physical Pharmaceutics	3	0	0	3		
683			Biopharmaceutics	17	0	0	17		
684			Molecular Pharmaceutics	0	0	0	0		
685			Environmental Pharmaceutics	0	0	0	0		
	Pharmaceutics total	28	0	0	28				
691			Medical Sociology	3	0	0	3		
692			Human Genetics	1	0	0	1		
693			Applied Pharmacology and Medical Pharmacology	0	0	0	0		
694			Pathological Examination	2	2	0	4		
696			Science of Basic and Local Nursing	8	3	0	11		
697			Science of Clinical Nursing	6	6	0	12		
	Medicine in General total	20	11	0	31				
	MEDICINE Total		542	23	0	565			
702	I	N	History of Science and Technology (inclu. Sociology of Science, and Basic Theory of Science and Technology)	2	0	0	2		
703			Physical Education	15	1	0	16		
704			Human Geography	6	0	0	6		
705			Physical Geography	2	0	0	2		
			Geography total	8	0	0	8		
706			Home Science (inclu. Cloth/Living Environments)	2	2	0	4		
707			Food Culture	4	3	0	7		
			Domestic Science total	6	5	0	11		
708			Science of Cultural Property	0	0	0	0		
711			Science Education	1	0	0	1		
712			Educational Engineering	2	0	0	2		
713			Curriculum Studies	2	1	0	3		
714			Japanese Language Education	1	0	0	1		
			Science Education· Curriculum Education total	6	1	0	7		
721			Statistics	2	0	0	2		
731	Computer Science	9	0	1	10				
732	Intelligent Informatics	26	3	0	29				
733	Study of Information System (Inclu. Library and Information Science)	8	0	0	8				
	Information Science total	43	3	1	47				
741	Social System Engineering	6	0	0	6				
751	Natural Disaster Science	1	0	0	1				
761	Plasma Science and Technology	5	0	1	6				
772	Nuclear Fusion	1	0	0	1				

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			Energy Science General	1	0	0	1
774			Nuclear Power Science	0	0	0	0
			Energy total	2	0	0	2
801	I N T E R D I S C I P L I N A R Y		Environmental Dynamic Analysis	4	0	0	4
802			Environmental Influence Assessment (inclu. Radiobiology)	1	0	0	1
803			Environmental Preservation	3	0	0	3
			Environmental Science total	8	0	0	8
811	I N T E R D I S C I P L I N A R Y		Biological Organic Chemistry	1	0	0	1
812			Structured Biochemistry	10	0	0	10
813			Functional Biochemistry	10	0	0	10
			Biological Chemistry total	21	0	0	21
821	I N T E R D I S C I P L I N A R Y		Biophysics	4	0	0	4
822			Molecular Biology	13	0	0	13
823			Cell Biology	8	0	0	8
824			Developmental Biology	6	0	0	6
			Basic Biology total	31	0	0	31
831	A R Y		Neuroanatomy and Neuropathology	4	0	0	4
832			Neurochemistry and Neuropharmacology	3	0	0	3
833			Neuro Science in General	3	0	0	3
834			Neuro and Muscular Physiology	4	1	0	5
			Neuro Science (inclu. Brain Science) total	14	1	0	15
841	E A		Laboratory Animal Science	1	0	0	1
851			Medical Organism Engineering and Material Science of Organism	4	0	1	5
			INTERDISCIPLINARY AREA Total	175	11	3	189
999			WIDE AREA Total	14	1	0	15
			Item n.a. Total	10	2	0	12
			Grand Total	1,516	69	24	1,609

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	34	6	0	0	40	
212			Chinese Philosophy	18	1	0	0	19	
213			Indian Philosophy (inclu. Buddhist Studies)	22	4	0	1	27	
214			Religion	39	3	0	0	42	
215			Ethics	8	0	0	0	8	
216			History of Philosophy	21	1	0	0	22	
217			Aesthetics (inclu. Arts)	78	24	0	0	102	
218			Art History	12	4	0	1	17	
			Philosophy total		232	43	0	2	277
221			Experimental Psychology	47	3	0	0	50	
222			Educational and Social Psychology	120	44	0	0	164	
223			Sociology (inclu. Social Welfare)	161	12	0	0	173	
224			Education	79	30	0	0	109	
225			Cultural Anthropology (inclu. Ethnology and Folklore)	58	8	0	0	66	
			Psychology · Sociology · Education Cultural Anthropology total		465	97	0	0	562
231			Japanese History	32	2	0	0	34	
232			Oriental History	52	1	0	0	53	
233			European History	40	1	0	1	42	
234	Archaeology (inclu. Prehistory)	24	0	0	1	25			
	History total		148	4	0	2	154		
241	Japanese Language	14	3	0	0	17			
242	Japanese Literature	32	6	0	0	38			
243	Chinese Language and Literature	62	0	0	0	62			
244	English Language and Literature	254	49	0	0	303			
245	French Language and Literature	34	2	0	0	36			
246	German Language and Literature	35	1	0	0	36			
247	Other Foreign Languages and Literatures	28	0	0	0	28			
248	Linguistics and Phonetics	126	17	0	0	143			
249	Literature in General (inclu. Literary Theory, Comparative Literature) and Western Classics	21	4	0	0	25			
	Literature total		606	82	0	0	688		
	ARTS · HUMANITIES Total		1,451	226	0	4	1,681		
261	LAW		Basic Science of Law	18	1	0	0	19	
262			Public Law	18	3	0	0	21	
263			International Law	28	0	0	0	28	
264			Civil Law	38	2	0	1	41	
265			Social Law	8	0	0	0	8	
266			Criminal Law	23	2	0	1	26	
267			Politics	113	4	0	0	117	
	LAW Total		246	12	0	2	260		
271	ECONOMICS		General Theory of Economics	75	3	0	0	78	
272			Economical Statistics	19	0	0	0	19	
273			Economic Policy (inclu. Economic Condition)	123	5	0	0	128	
274			Economic History	37	2	0	0	39	
275			Public Finance, Money and Banking	30	3	0	0	33	
276			Commercial Science	45	6	0	0	51	
277			Business Administration	121	6	0	0	127	
278			Accounting	35	4	0	0	39	
	ECONOMICS Total		485	29	0	0	514		
301	SCIENCE		Algebra	33	1	0	0	34	
302			Geometry	33	1	0	0	34	
304			Mathematics in General (inclu. Probability Theory and Mathematical Statistics)	61	2	0	0	63	
305			Basic Analysis	36	1	0	0	37	
306			Larger-area Analysis	11	0	0	0	11	
			Mathematics total		174	5	0	0	179
311	Astronomy	10	0	0	0	10			
321		Elementary Particles Physics, Nuclear Physics, Cosmic Ray Physics, and Cosmic Physics	59	1	0	0	60		

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
322			Solid State Physics I (Optical Properties, Semiconductor and Dielectrics)	54	1	0	0	55
323			Solid State Physics II (Magnetism, Metal Physics, Cryogenics)	41	4	0	0	45
324			Physical Properties in General (inclu. Basic Theories)	41	2	0	0	43
325			Physics in General	30	1	0	1	32
			Physics total	225	9	0	1	235
331			Physics of Solid Earth	8	1	0	0	9
332			Meteorology, Oceanography and Hydrology	13	0	0	0	13
333	S		Aeronomy	7	0	0	0	7
334			Geology	12	0	0	0	12
335	C		Stratigraphy and Paleontology	3	1	0	0	4
336	I		Mineralogy, Petrology and Study of Mineral Deposit	6	0	0	0	6
337			Geochemistry	10	1	0	0	11
			Earth Science total	59	3	0	0	62
341			Physical Chemistry	63	2	0	0	65
342	N		Organic Chemistry	45	0	0	2	47
343			Inorganic Chemistry	20	0	0	0	20
344	C		Function, Properties and Materials in Chemistry	31	1	0	0	32
345	E		Substance Transformation	2	0	0	0	2
346			Separation, Refining and Identification	18	1	0	0	19
			Chemistry total	179	4	0	2	185
351			Genetics	5	1	0	0	6
352			Ecology	19	1	0	4	24
353			Plant Physiology	12	1	0	0	13
354			Morphology, Structure of	10	1	0	0	11
355			Animal Physiology and Metabolism	11	0	0	0	11
356			Morphology and Taxonomy	14	1	0	3	18
			Biology total	71	5	0	7	83
361			Physical Anthropology (inclu. Physiological Anthropology)	9	1	0	0	10
			SCIENCE Total	727	27	0	10	764
401			Applied Physics of Property and Crystallography	23	0	0	0	23
402			Surface Physics	23	0	0	0	23
403			Applied Optics and Quantum	35	0	0	0	35
404			General Applied Physics	7	0	0	3	10
405	E		Fundamentals of Engineering	9	0	0	0	9
			Applied Physics·Fundamentals of Engineering total	97	0	0	3	100
411	G		Materials for Machines and Strength of Materials	84	1	0	0	85
412	I		Workshop Processes and Production Engineering	49	0	0	0	49
413	N		Design Engineering, Machine Elements and Tribology	32	2	0	0	34
414			Fluid Mechanics	69	0	0	0	69
415	E		Heat Engineering	67	2	0	0	69
416			Mechanics and Control	44	1	0	0	45
417	E		Intelligent Mechanics and Machine System	41	1	0	0	42
			Machine Engineering total	386	7	0	0	393
421	I		Electric Power Engineering and Electric Machinery	70	1	0	0	71
422	N		Electronic and Electric Materials Engineering	74	3	0	1	78
423	G		Electron Devices and Apparatus Engineering	74	2	0	1	77
424			Information and Communication Engineering	160	5	0	1	166
425			System Engineering	45	0	0	0	45
427			Electronic Measurements	33	2	1	0	36
428			Control Engineering	34	1	0	0	35

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
			Electric and Electronic Engineering total	490	14	1	3	508
431			Construction Materials and Dynamics in General Civil Engineering	21	1	0	0	22
432			Structural Engineering and Seismology	35	0	0	0	35
433			Ground Engineering	24	0	0	0	24
434			Hydraulics and River Engineering	36	2	0	0	38
435			Traffic Engineering and Regional Planning	25	1	0	0	26
436			Civil Environmental System	16	1	0	1	18
			Civil Engineering total	157	5	0	1	163
441	E		Building Structure and Materials	39	0	0	0	39
442	N		Building Science and Building Equipment	34	2	0	1	37
443			City Planning and Building	47	4	0	0	51
444	G		Architectural History and Design	9	0	0	0	9
			Architecture total	129	6	0	1	136
451	I		Physical Metallurgy	15	0	0	1	16
452			Inorganic Materials and Properties	46	1	0	0	47
453	N		Composed Materials and	15	1	0	0	16
454			Structural and Functional	18	2	0	0	20
455	E		Metallurgy and Material	28	2	0	1	31
456			Metal Productive Engineering	6	1	0	0	7
			Material Engineering total	128	7	0	2	137
461	R		Chemical Engineering in General	16	0	0	0	16
462			Reaction and Separation Engineering	14	0	0	0	14
463	I		Catalyst and Chemical Process	11	0	0	0	11
464			Bioengineering	17	0	0	0	17
465	N		Industrial Analytical Chemistry	4	0	0	0	4
			Process Engineering total	62	0	0	0	62
471	G		Industrial Physical Chemistry	11	0	0	0	11
472			Industrial Inorganic Chemistry	6	0	0	0	6
473			Industrial Organic Chemistry	16	0	0	0	16
474			Synthetic Chemistry	16	0	0	0	16
475			Polymer Synthesis	25	0	0	0	25
476			Polymer Structure and Property (inclu. Fiber)	20	2	0	0	22
			Industrial Chemistry total	94	2	0	0	96
481			Aeronautics	22	0	0	0	22
482			Ship Engineering	5	0	0	0	5
483			Marine Engineering	8	0	0	0	8
484			Resource Development	4	0	0	0	4
			Synthetic Engineering total	39	0	0	0	39
			ENGINEERING Total	1,582	41	1	10	1,634
501			Plant Breeding	3	1	0	0	4
502			Crop Science	4	0	0	0	4
503			Horticulture and Landscape Architecture	16	1	0	0	17
504			Plant Protection	15	1	0	0	16
505			Sericultural Science and Economic Entomology	6	0	0	0	6
			Agriculture total	44	3	0	0	47
511	A		Plant Fertilizer and Manure and Soil Science	9	0	0	0	9
512	R		Applied Microbiochemistry and Applied Biochemistry	24	3	0	2	29
513	I		Biological Productive Chemistry and Bioorganic Chemistry	8	0	0	0	8
514	C		Food Science and Nutritional Chemistry	28	12	0	0	40
			Agricultural Chemistry total	69	15	0	2	86
521			Forestry	2	0	0	0	2
522			Wood Science	0	0	0	0	0
			Forestry total	2	0	0	0	2
531			Fisheries in General	20	1	0	0	21
532			Fisheries Chemistry	2	0	0	0	2
			Fisheries total	22	1	0	0	23

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	
541	A G R I C U L T U R E		Agricultural Economics	15	0	0	0	15	
551			Irrigation, Drainage and Reclamation Engineering and Rural	9	0	0	0	9	
552			Agricultural Machinery	2	0	0	0	2	
553			Biological Environment	4	0	0	0	4	
				Agricultural Engineering total	15	0	0	0	15
561				Animal Science and Grassland Science	12	1	0	0	13
562				Applied Animal Science	10	0	0	0	10
563				Basic Veterinary Medicine and Basic Animal Science	15	1	0	0	16
564				Applied Veterinary Medicine	20	0	0	2	22
				Animal Science· Veterinary Medicine total	57	2	0	2	61
571				Biological Resource Science	3	0	0	0	3
572				Applied Molecular Cell Biology	0	1	0	0	1
				Interdisciplinary Agricultural Science total	3	1	0	0	4
				AGRICULTURE Total	227	22	0	4	253
601	M E D I C I N E		Anatomy in General (inclu. Histology, Embryology)	51	4	0	0	55	
602			Physiology in General	43	3	0	0	46	
603			Environmental Physiology (inclu. Physical Fitness and Sports Medicine, and Nutritional Physiology)	34	3	0	0	37	
604			Pharmacology in General	70	1	0	1	72	
605			Medical Chemistry in General	23	1	0	5	29	
606			Pathological Medical Chemistry	13	1	0	1	15	
				Physiology total	234	13	0	7	254
611				Hominal Pathology	65	2	0	2	69
612				Experimental Pathology	20	3	0	1	24
613				Parasitology (inclu. Medical)	14	1	0	0	15
614				Bacteriology (inclu. Eumycetes)	45	1	0	4	50
615				Virology	14	0	0	0	14
616				Immunology	39	1	0	3	43
				Pathology total	197	8	0	10	215
621				Hygiene	27	1	0	2	30
622				Public Health and Health Science	68	13	0	0	81
623				Legal Medicine	13	0	0	0	13
				Social Medicine total	108	14	0	2	124
631				Internal Medicine in General	74	2	0	2	78
632				Gastroenterology	85	0	0	1	86
633				Internal Medicine Respiratory System	65	0	0	1	66
634				Neurological Medicine	46	3	0	0	49
635				Cardioangiology	123	1	0	0	124
636				Pediatrics	63	4	0	1	68
637				Dermatology	46	0	0	0	46
638				Radiology	98	4	0	2	104
639				Neuropsychiatry	73	1	0	1	75
641				Hematology	46	0	0	1	47
642				Internal Medicine of Kidney	46	1	0	0	47
643				Embryology and Newborn Medicine	5	0	0	0	5
644			Endocrinology	31	1	0	0	32	
645			Metabolic Science	29	1	0	0	30	
			Internal Medicine total	830	18	0	9	857	
651			Surgery in General	80	0	0	0	80	
652			Gastroenterological Surgery	102	1	0	2	105	
653			Thoracic Surgery	61	0	0	0	61	
654			Neurosurgery	59	0	0	0	59	
655			Orthopedic Surgery	102	1	0	1	104	
656			Anesthesiology and Rescue Medicine	50	0	0	0	50	
657			Urology	53	0	0	0	53	
658			Obstetrics and Gynecology	60	1	0	0	61	
659			Oto-rhino-laryngology	42	0	0	0	42	
660			Ophthalmology	63	0	0	0	63	
661			Pediatric Surgery	9	1	0	0	10	

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Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total	
662	M E D I C I N E		Formative Surgery	25	0	0	0	25	
			Surgery total	706	4	0	3	713	
671			Oral Anatomy and Morphological Basic Dentistry	82	1	0	0	83	
672			Functional Basic Dentistry	73	1	0	0	74	
673			Morbid Dentistry (inclu. Dental Radiology)	44	0	0	0	44	
674			Conservative Dentistry	97	1	0	0	98	
675			Prosthodontics and Dental Technology	121	2	0	0	123	
676			Oral Surgery	88	0	0	0	88	
677			Orthodontics, Pedodontics and Social Dentistry	100	2	0	0	102	
678			Periodontological Dentistry	20	1	0	0	21	
			Dentistry total	625	8	0	0	633	
681	C H E M I S T R Y		Chemical Pharmaceutics	76	0	0	1	77	
682			Physical Pharmaceutics	32	0	0	0	32	
683			Biopharmaceutics	116	0	0	5	121	
684			Molecular Pharmaceutics	11	0	0	0	11	
685			Environmental Pharmaceutics	6	0	0	0	6	
			Pharmaceutics total	241	0	0	6	247	
691	E N V I R O N M E N T A L S C I E N C E		Medical Sociology	12	0	0	0	12	
692			Human Genetics	2	0	0	1	3	
693			Applied Pharmacology and Medical Pharmacology	38	0	0	0	38	
694			Pathological Examination	17	3	0	0	20	
696			Science of Basic and Local	9	4	0	0	13	
697			Science of Clinical Nursing	10	6	0	0	16	
			Medicine in General total	88	13	0	1	102	
			MEDICINE Total	3,029	78	0	38	3,145	
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)	11	1	0	0	12	
703			Physical Education	81	15	0	0	96	
704			Human Geography	17	1	0	0	18	
705			Physical Geography	8	0	0	0	8	
				Geography total	25	1	0	0	26
706			Home Science(inclu. Cloth/Living Environments)	20	17	0	0	37	
707			Food Culture	7	13	0	0	20	
				Domestic Science total	27	30	0	0	57
708			Science of Cultural Property	0	0	0	0	0	
711			Science Education	4	1	0	0	5	
712			Educational Engineering	14	1	1	0	16	
713			Curriculum Studies	18	5	0	0	23	
714			Japanese Language Education	7	0	0	0	7	
				Science Education· Curriculum	43	7	1	0	51
721			Statistics	25	0	0	0	25	
731			Computer Science	91	2	1	0	94	
732			Intelligent Informatics	58	0	1	0	59	
733			Study of Information System (Inclu. Library and Information)	58	7	0	0	65	
				Information Science total	207	9	2	0	218
741		Social System Engineering	42	0	0	0	42		
751		Natural Disaster Science	1	0	0	0	1		
761		Plasma Science and Technology	24	0	0	0	24		
772		Nuclear Fusion	4	1	0	0	5		
773		Energy Science General	1	0	0	0	1		
774		Nuclear Power Science	7	1	0	0	8		
			Energy total	12	2	0	0	14	
801		Environmental Dynamic Analysis	10	1	1	0	12		
802		Environmental Influence Assessment (inclu. Radiobiology)	12	1	0	1	14		
803		Environmental Preservation	30	1	0	1	32		
			Environmental Science total	52	3	1	2	58	
811		Biological Organic Chemistry	8	0	0	2	10		
812		Structured Biochemistry	18	1	0	0	19		
813		Functional Biochemistry	25	0	0	0	25		
			Biological Chemistry total	51	1	0	2	54	

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Code	Subject	Subdivision	Item	Universities	Junior Colleges	Colleges of Technology	Private Scientific Research Institutes	Total	
821	INTERDISCIPLINARY AREA		Biophysics	18	0	0	0	18	
822			Molecular Biology	45	2	0	3	50	
823			Cell Biology	17	1	0	3	21	
824			Developmental Biology	11	0	0	0	11	
				Basic Biology total	91	3	0	6	100
831				Neuroanatomy and	21	1	0	0	22
832				Neurochemistry and Neuropharmacology	26	0	0	0	26
833				Neuro Science in General	42	2	0	2	46
834				Neuro and Muscular Physiology	29	1	0	0	30
				Neuro Science (inclu. Brain Science) total	118	4	0	2	124
841				Laboratory Animal Science	2	0	0	2	4
851				Medical Organism Engineering and Material Science of Organism	55	2	0	0	57
				INTERDISCIPLINARY AREA Total	867	78	4	14	963
999				WIDE AREA Total	151	26	0	0	177
			Item n.a. Total	51	6	0	0	57	
			Grand Total	8,816	545	5	82	9,448	