

**Questionnaire for 2021 Ph.D. Graduates**

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**Questionnaire ID :**

**※ Please do not write on the Questionnaire ID section.**

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| This survey, conducted by the Ministry of Education(MOE) and Korea Research Institute for Vocational Education and Training(KRIVET) at the end of each semester, is designed to establish a statistical database on career paths of domestic doctoral graduates and build more effective policies for supporting high-quality human resources(doctoral graduates). As **the official statistics(Approval No. 920009)**, all the information you provide will be kept strictly confidential under **the Personal Information Protection Act(Article 58, Paragraph 1(Except for some applications))** **and the Statistics Act(Article 5(Relationship with other Acts),** **Article 33(Protection of Secrets))**, and will be used for statistical purposes only. |

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| **Basic Demographic Information** | | | |
| Full Name |  | Sex | □ ① Male  □ ② Female |
| Year of Birth | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  | (YYYY) | | Nationality\* | □① Korea   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | □② Other | (Country Code: |  |  |  | ) | |
| Major |  |

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| **\* *If your nationality is not Korea, please write down your country code (refer to Appendix 2****).* | | | | | | | | | | |
| **Degree Information** | | | | | | | | | | |
| Type of  Degree | Date of Entrance/ Graduation  (YYYY/MM) | | | Name of University | Field Code\*  (refer to  the sample) | Department  Code\*\* | Type of University | Type of Graduate School | Location of Institution\*\*\* | |
| (1)Bachelor | Entrance | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | | |  |  | | --- | --- | |  |  | |  | |  |  | | --- | --- | |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | | □①National  or Public  □②Private | - | □①Korea  □②Other | |  |  |  | | --- | --- | --- | |  |  |  | |
| Graduation | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | | |  |  | | --- | --- | |  |  | |
| (2)Master | Entrance | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | | |  |  | | --- | --- | |  |  | |  | |  |  | | --- | --- | |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | | □①National  or Public  □②Private | □①General  □②Professional  □③Specialized | □①Korea  □②Other | |  |  |  | | --- | --- | --- | |  |  |  | |
| Graduation | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | | |  |  | | --- | --- | |  |  | |
| (3)Doctorate | Entrance | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | | |  |  | | --- | --- | |  |  | |  | |  |  | | --- | --- | |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | | □①National  or Public  □②Private | □①General  □②Professional | ① Korea | |  |  | | --- | --- | |  |  | |
| Graduation | |  |  |  |  | | --- | --- | --- | --- | | **2** | **0** | **2** | **1** | | |  |  | | --- | --- | |  |  | |
| **↳** | |  |  | | --- | --- | | ∙Please check in the box if you have graduated master & doctoral combined degree program |  | | | | | | | | | | |

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| *\*****<Field Code>*** *Please choose one of the seven categories which best describes your major field of degree.*  ***Education=1, Arts and Humanities=2, Social sciences, Journalism and Information=3, Business, Administration and Law=4,  Natural sciences, Mathematics and Statistics=5, Information and Communication Technologies=6,  Engineering, Manufacturing and Construction=7 , Agriculture, Forestry, Fishery and Veterinary=8, Health and Welfare=9, Services=10***  *\*\* Please write your department code referring to the Department Codes list (Appendix 1) at the end of the questionnaire.*  *\*\*\* Please choose the City/ Province Code if you have graduated in Korea (see below), or fill in the Country Code* ***(see Appendix 2)****, if not in Korea.*  ***Seoul=1, Busan=2, Daegu=3, Incheon=4, Gwangju=5, Daejeon=6, Ulsan=7, Kyeonggi=8, Gangwon=9,***  ***Chungbuk=10, Chungnam=11, Jeonbuk=12, Jeonnam=13, Gyeongbuk=14, Gyeongnam=15, Jeju=16, Sejong=17***  ***※ If you have two or more doctoral degrees, please fill in your main degree.*** |

**※ Please submit the questionnaire to administration team of your graduate school.**

**※ If you have any questions about the survey, please feel free to contact us as below.**

Won-Young BAEK KRIVET 044-415-5360 baek00@krivet.re.kr

Hye-Jeong KIM KRIVET 044-415-5161 [hjkim0726@krivet.re.kr](mailto:hjkim0726@krivet.re.kr)

**KRIVET MOE**

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| **Ⅰ. Doctoral Degree Program** |

**1. Which type of student were you during your doctoral program (Full time or Part time)?**

|  |  |
| --- | --- |
| (1) from Admission to Coursework Completion |  |
| □① Full-time student  □② Part-time student (study and work at the same time) | *※* ***Full-time student*** *refers to one spending most of time studying during the doctoral program, despite spending time in RA/TA activities, project participations, part-time lecturer job or other part-time jobs.*  *※* ***Part-time student*** *refers to one spending most of time studying during the doctoral program while working at the same time. It includes the employed, employer and self-employed with no employees(Own-account worker) as well.* |

**2. Have you ever taken a leave of absence during your program?**

|  |  |  |
| --- | --- | --- |
| (1) Taking leave of absence | (2) Total semester(s) of absence | (3) Main Reason for leave |
| □① Yes, I have.  □② No, I have not. ☞ **Go to item** **3.** | ( )semester(s) | □① financial issues □② work/duties-related issues  □③ marriage, child care, housework or family-related issues  □④ health issues □⑤ military service- related issues  □⑥ others |

**3. How much is total tuition fee for doctoral course and how was it paid?**

**3-1. How much is total tuition fee for doctoral course? (excluding the scholarship or tuition-exemption)**

□① less than 10 million KRW □② 10~20 million KRW □③ 20~30 million KRW

□④ 30~40 million KRW □⑤ 40~50 million KRW □⑥ 50~60 million KRW

□⑦ 60~70 million KRW □⑧ 70~80 million KRW □⑨ more than 80 million KRW

**3-2. How was it paid?**

|  |  |  |  |
| --- | --- | --- | --- |
| (1-1) Self-funded | | | ( )% |
| (1-2) Family Support (Support from parents, siblings, spouse, etc.) | | | ( )% |
| (2)Scholarship | Korea | (2-1) Fellowship/ Scholarship | ( )% |
| (2-2) Grant | ( )% |
| (2-3) Research Assistantship(R.A.) | ( )% |
| (2-4) Teaching Assistantship(T.A.) or  Other Administrative Assistantships | ( )% |
| (2-5) Academic Excellence Scholarship | ( )% |
| Other | (2-6) non-Korean Scholarship | ( )% |
| (3) Student Loan | | | ( )% |
| (4) Financial assistance from employers | | | ( )% |
| (5) Others | | | ( )% |

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| *※‘Total Tuition Fee’refers to total amount that you paid to school, including registration fee, tuition fee during/after coursework, fee for academic advisory, etc.*  *※ Please make sure that the sum of the percentages for item (1)~(5)(calculated on the basis of the total tuition fee) is* ***100****. (Put “0” for items which are not relevant for you).* |

**4. Have you published journal articles during the doctoral course and how many journal articles have been published ever? (\*including articles accepted for publication)**

**4-1. Have you published journal articles during the doctoral course?**

□① Yes, I have. . ☞ **Go to item** **4-2.** □② No, I have not. ☞ **Go to item** **5.**

**4-2. How many journal articles have you published during the doctoral course?**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Author Status** | **Number of Articles** | **Domestic** | | **Overseas** | |
| **KCI** | **Other** | **SCI(E)/SSCI/A&HCI** | **Other** |
| 1st author |  |  |  |  |  |
| Co-author |  |  |  |  |  |

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| *※ Please put “0” if you do not have any published articles.* |

**5. Have you participated in any research projects during your doctoral courses?**

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| --- | --- | --- | --- | --- |
|  | (1) Participation | (2) Total Number of Projects Participated | (3)Funding Source of the Project | (4) Total  Participation Period |
| (1) | □① Yes  □② No **☞ Go to item 5.(2-1)** | **Total ( )** | Central/ Local Government ( )  Corporation ( )  Other ( ) | |  |  | | --- | --- | |  |  |   mMonth(s) |
| (2) | (2-1) BK21Plus Participation | **(**2-2) programs supported by BK21Plus(mark one or more) | | (2-4) Total  Participation Period of BK21Plus |
| □① Yes  □② No **☞ Go to item 6.** | □① Short-term overseas study □② Long-term overseas study  □③ Corporate internship(incl. filed placement)  □④ Participation in domestic and overseas academic conferences and submission of academic papers □⑤ Scholarship □⑥ Others | | |  |  | | --- | --- | |  |  |   Month(s) |

**6. What was your main purpose of studying doctoral program? (Please choose one answer.)**

**☞ After answering, go to item 6-1.**

□① To be a professor/professional researcher □② To get a job/change a job

□③ To promote in workplace □④ To gain honor

□⑤ To improve professional expertise □⑥ To get a qualification

□⑦ For self-achievement □⑧ Others

**6-1. Why did you decide to acquire a doctoral degree in Korea?**

**☞ After answering, go to item 7.**

□① Due to opportunities for financial aid(scholarship, RA etc.) □② Due to a good research environment(research facilities, etc.)

□③ Due to the quality of faculty, curriculum, etc. □④ Due to a cheaper cost of living in Korea

□⑤ To get a job in Korea □⑥ To study and work at the same time

□⑦ Due to family-related issues □⑧ Due to interest in Korean Culture □⑨ Others

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| **Ⅱ. Plan after Graduation and State of Employment** |

**7. Are you planning to work (or change job) and move abroad after getting a doctoral degree (within 1 year)?**

□① Stay in Korea **☞ go to item 8.** □② Go abroad (Country Code: )**☞ go to item 7-1.**

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| *※ Fill in the Country Code* ***(see Appendix 2****), if you are not staying in Korea.* |

**7-1. Why are you planning to move abroad?**

□① To do a postdoc abroad □② To get a job/ return to a former job

□③ To live abroad □④ To return to your homeland(if non-Korean) □⑤ Others

**8. Are you currently employed or admitted for employment?**

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| □① Employed(except postdoc/ lecturer) **☞ Go to item 9.**  □② Admitted for employment(except postdoc/ lecturer) **☞ Go to item 9.**  □③ Admitted for a postdoc **☞ Go to item 9.**  □④ Admitted for a lecturer **☞ Go to item 9.**  □⑤ Unemployed, on job searching **☞ Go to item 16.**  □⑥ Unemployed, no plan for job searching **☞ Go to item 8-1.** | **8-1. Why are you not planning to search for a job?**  **☞ Go to item 19.**  □① Marriage, Child care, Housework or Family-related issues  □② Planning to start own business  □③ Planning to take exams and other preparations  for qualification or employment  □④ Health issues  □⑤ Preparing to study abroad or further study  □⑥ Military service-related issues  □⑦ Others |

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| **Ⅲ. (Admitted) Employees** |

**9. What is your current employment status?**

□① Permanent Employee**☞ Go to item 9-1.** □② Temporary Employee**☞ Go to item 9-1.**

□③ Daily Worker**☞ Go to item 9-1.** □④ Self-employed person with employees(Employer)**☞ Go to item 10.**

□⑤ Self-employed person with no employees(Own-account worker) **☞ Go to item 10.**

□⑥ Unpaid Family Worker **☞ Go to item 10.**

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| ※ ***Permanent Employees***: Paid workers who have employment contracts with a duration of longer than one year, Person who is a permanent employee in less than one year service period  ※ ***Temporary Employees***: Paid workers who have employment contracts with a duration of longer than one month but less than one year  ※ ***Daily Workers***: Paid workers who have employment contracts with a duration of no more than one month  ※ ***Self-employed persons with employees(Employer)***: Those who hire one or more workers for them in their business on a continuous basis  ※ ***Self-employed persons with no employees(Own-account worker)***: Those who work alone in their business or with one or more partners(including unpaid family worker)  ※ ***Unpaid Family Workers***: Those who work without pay in an economic enterprise operated by family or relatives(no need to be in the same household) and work for more than 1/3 of regular working time of the enterprise |

**9-1. What is your employment type?**

□① regular □② irregular(full-time) □③ irregular(part-time)

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| *※* irregular(full-time): Work hours are more than 30 hours per week.  *※*irregular(part-time): Work hours are less than 30 hours per week. |

**10. What type of workplaces do you work in?**

□① University □② Elementary/Lower Secondary/Upper Secondary school □③ Central or Local Governments

□④ Public Research Institute □⑤ Private Research Institute(including a company-affiliated research institute)

□⑥ Public Company □⑦ Private Company □⑧ Started a Business/Self-employed(including a freelancer)

□⑨ Other Education Institute □⑩ Hospital/ Medical Institution(including a university hospital)

□⑪ Foundation/ Corporation/ Association etc. □⑫ Others

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| *※ Please check on ‘university’ if you are affiliated to c*entral or local *government and work in university.*  *※ Research Institutes refers only to those registered as corporate.* |

**11. Please tell us brief information of your workplace.**

|  |  |  |  |
| --- | --- | --- | --- |
| (1) Overseas Employment or not | (2) Location\* | (3) Industry type\*\* | (4) Number of Employees\*\*\* |
| □① Korea | |  |  |  |  | | --- | --- | --- | --- | | (City/Province: |  |  | ) | | |  |  |  |  |  | | --- | --- | --- | --- | --- | | (Industry Code: |  |  |  | ) | | □① 1 ~ 29 persons □② 30 ~ 99 persons  □③ 100 ~ 299 persons □④ 300 ~ 999 persons  □⑤ more than 1,000 persons |
| □② Overseas | |  |  |  |  |  | | --- | --- | --- | --- | --- | | (Country Code: |  |  |  | ) | |

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| *\* Please choose the City/ Province Code if your workplace is in Korea (see below), or fill in the Country Code* ***(see Appendix 2****), if not in Korea.*  ***Seoul=1, Busan=2, Daegu=3, Incheon=4, Gwangju=5, Daejeon=6, Ulsan=7, Kyeonggi=8, Gangwon=9,***  ***Chungbuk=10, Chungnam=11, Jeonbuk=12, Jeonnam=13, Gyeongbuk=14, Gyeongnam=15, Jeju=16, Sejong=17***  *\*\* Fill in the Industry Code (****see Appendix 3*** *).*  *\*\*\* Please choose the* Number of Employees *based on the relevant institute* if *your workplace are universities or company-affiliated research institutes.* |

**12. What is your occupational type in the company/organization?**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| □① Managers  □③ Clerks  □⑤ Sales Workers  □⑦ Craft and Related Trades Workers  □⑨ Elementary Workers | **┐**  **│**  **│││**  **┘** | **☞ Go to item 13.** | □② Professionals and Related Workers **☞ Go to item 12-1.**  □④ Service Workers  □⑥ Skilled Agricultural, Forestry and Fishery Workers  □⑧ Equipment, Machine Operating and Assembling Workers  □⑩ Armed Forces |  | |
| **┐**  **│**  **│**  **│**  **┘** | **☞ Go to item 13.** |

**12-1. What is your specific occupational type?**

□① Biological and Natural Science Related Professionals Technicians □② Liberal Arts and Social Science Professionals

□③ Information and Communication Professionals and Technical Occupations □④ Engineering Professionals and Technical Occupations

□⑤ Health, Social Welfare and Religion Related Occupations □⑥ Education Professionals and Related Occupations

□⑦ Legal and Administrative Occupations □⑧ Business and Finance Professionals and Related Occupations

□⑨ Culture, Arts and Sports Professionals and Related Occupations

**13. When did you (or are you scheduled to) start working at your current workplace?**

(YYYY)

**14. Please check your pre-tax annual salary(If you are admitted for employment, check your expected salary).**

□① less than 20 million KRW/year □② 20~30 million KRW/year □③ 30~40 million KRW/year

□④ 40~50 million KRW/year □⑤ 50~60 million KRW/year □⑥ 60~70 million KRW/year

□⑦ 70~80 million KRW/year □⑧ 80~100 million KRW/year □⑨ more than 100 million KRW/year

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| *※ Pre-tax annual salary is the total sum including a basic salary, various allowances and bonuses.* |

**15. How much is your current job(or job which you are to undertake) related to your doctoral major?**

□① Not at all □② slightly □③ quite a bit □④ strongly

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| **Ⅳ. Job Seekers and Career Changers** |

***※ Are you planning to get a job or change your job?***

□① On Job Searching □② Planning to Career Change □③ None ☞ **Go to item 19.**

**16. What type of workplace do you most prefer?(Please write down 1st, 2nd rank)**

**---1st Preference: ( ), 2nd Preference ( )**

□① University □② Elementary/Lower Secondary/Upper Secondary school □③ Central or Local Governments

□④ Public Research Institute □⑤ Private Research Institute(including a company-affiliated research institute)

□⑥ Public Company □⑦ Private Company □⑧ Started a Business/Self-employed(including a freelancer)

□⑨ Other Education Institute □⑩ Hospital/ Medical Institution(including a university hospital)

□⑪ Foundation/ Corporation/ Association etc. □⑫ Others

**17. What aspect of job is most important to you when you choose a job?**

□① Salary □② Job security □③ Level of matching job with major □④ Good prospects

□⑤ Social honor □⑥ Location of workplace □⑦ Organizational culture of workplace □⑧ Fringe benefits

□⑨ Personal aptitude □⑩ Others

**18. How much annual salary do you expect?** **☞ After this question, please go to item 19.**

□① less than 20 million KRW/year □② 20~30 million KRW/year □③ 30~40 million KRW/year

□④ 40~50 million KRW/year □⑤ 50~60 million KRW/year □⑥ 60~70 million KRW/year

□⑦ 70~80 million KRW/year □⑧ 80~100 million KRW/year □⑨ more than 100 million KRW/year

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| **Ⅴ. Postdoctoral Program** |

**19. Are you planning to apply for Postdoctoral Programs?**

□① Admitted as a postdoctoral researcher □② Plan(Prepare) to apply□③ None. **☞ Go to item 22.**

**20. Where is the location of the program?**

□① Korea **☞ Go to item 21.** □② Abroad (Country Code: )**☞ Go to item 20-1.**

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| *※ Fill in the Country Code* ***(see Appendix 2****), if you are going abroad.* |

**20-1. Are you planning to come back to Korea?**

□① Plan to come back after finishing the postdoctoral program

□② Plan to come back after finishing the postdoctoral program and gaining work experience

□③ Plan to come right back in case of getting a job in Korea(even though you have not finished the postdoctoral program)

□④ Plan to keep staying abroad

**21. Where is source of funding for the program?**

□① University □② Government □③ Public Research Institute

□④ Private Research Institute □⑤ Private Company □⑥ Others

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| **Ⅵ. Lecturer** |

***※*** *Please only answer* ***if you are planning to lecture.***

**22. Are you planning to lecture as a main job, or side job in next semester?**

□① full-time lecturer(lecturer as a main job) □② adjunct lecturer(lecturer as a side job) □③ None **☞ Survey termination. Thank you.**

**23. Please answer your estimates for next semester on each question in the box.**

|  |  |  |
| --- | --- | --- |
| (1) Total Number of Lectures  that you will hold | (2) Total Credit of Lectures | (3) Total Lecture Fees |
| ( ) Lectures | ( ) Credits | □① month ( )million KRW  □② semester ( )million KRW |

**Thank you very much.**

**CONSENT FORM TO PARTICIPATE IN 「DPAG」**(DOCTORATE HOLDERS POLICY ADVISORY GROUP)

**FOR HIGH-LEVEL HUMAN RESOURCES**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| The Ministry of Education(MOE) and Korea Research Institute for Vocational Education and Training(KRIVET) are looking for advisors in order to seek policy advice for nurturing and using high-level human resources(doctorate holders).  **1. PURPOSE**  Providing policies and advices for nurturing and using high-level human resources(doctorate holders)  **2. ACTIVITIES**  ① studying policies for nurturing and using high-level human resources, participating in survey projects, advising  ② Participation in surveys for doctorate panel  **※ The advisory group’s activity duration is to be renewed every year.**  **The participant in ‘Surveys for Doctorate Panel’ is certified as a panel regardless of duration.**  **3. BENEFITS**  ① Small gifts to participants who complete the survey  ② Offering publications using research data on doctorate holders  ③ Reflection of advisory group’s opinion when collecting data for policy-making  ④ Priority given to participants as experts in conducting policy affairs  **<PARTICIPANT INFORMATION>**   |  |  |  |  | | --- | --- | --- | --- | | **Full Name** | **(Mobile) Phone Number** | **E-mail** | **Mailing Address**  (To Receive Postal Matter) | |  |  |  |  |   ※ This personal information is completely protected and only used for research purposes**(under the Statistics Law, article 33, Maintain the Anonymity and Secrecy Protection).**  **I hereby agree to participate in 「DPAG」(DOCTORATE HOLDERS POLICY ADVISORY GROUP)**  **FOR HIGH-LEVEL HUMAN RESOURCES.**    **Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **EMB00000c9c306520 . . .**  C:\Users\moe\Desktop\MI_MOE\jpg\교육부_영_좌우.jpg |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Appendix 1. Department Codes List | | | |  | |  | |  | | |  | |
| **(1) 교육 (Education)** | | |  | | **(7) 공학, 제조 및 건설 (Engineering, Manufacturing and Construction)** | | | | | | | |
| 11 | 교육 | Education |  | | 711 | | 화학공학 및 공정 | | | Chemical engineering and processes | | |
|  |  |  |  | | 712 | | 환경보호 기술 | | | Environmental protection technology | | |
| **(2) 예술 및 인문학 (Arts and Humanities)** | | |  | | 713 | | 전기 및 에너지 | | | Electricity and energy | | |
| 211 | 시청각 기술 및 미디어 제작 | Audio-visual techniques and media production |  | | 714 | | 전자 및 자동화 | | | Electronics and automation | | |
| 212 | 패션 디자인 | Fashion design |  | | 715 | | 기계 및 금속 | | | Mechanics and metal trades | | |
| 213 | 인테리어 및 산업 디자인 | Interior and industrial design |  | | 716 | | 자동차, 선박 및 항공기 | | | Motor vehicles, ships and aircraft | | |
| 214 | 미술 | Fine arts |  | | 719 | | 기타 공학 | | | Engineering, Other | | |
| 215 | 공예 | Handicrafts |  | | 72 | | 제조 및 가공 | | | Manufacturing and processing | | |
| 216 | 음악 및 공연예술 | Music and performing arts |  | | 73 | | 건축 및 건설 | | | Architecture and construction | | |
| 219 | 기타 예술 | Arts, Other |  | |  | |  | | |  | | |
| 22 | 인문학(어문학 제외) | Humanities (except languages) |  | | **(8) 농림어업 및 수의학 (Agriculture, Forestry, Fishery and Veterinary)** | | | | | | | |
| 23 | 어문학 | Languages |  | | 81 | | 농업 | | | Agriculture | | |
|  |  |  |  | | 82 | | 임업 | | | Forestry | | |
| **(3) 사회과학, 언론 및 정보학**  **(Social sciences, Journalism and Information)** | | |  | | 83 | | 어업 | | | Fisheries | | |
| 311 | 경제학 | Economics |  | | 84 | | 수의학 | | | Veterinary | | |
| 312 | 정치학 및 시민학 | Political sciences and civics |  | |  | | | |  | | |  |
| 313 | 심리학 | Psychology |  | | **(9) 보건 및 복지 (Health and Welfare)** | | | | | | | |
| 314 | 사회학 및 문화연구 | Sociology and cultural studies |  | | 911 | | 치의학 | | | Dental studies | | |
| 32 | 언론 및 정보학 | Journalism and information |  | | 912 | | 의학 | | | Medicine | | |
|  |  |  |  | | 913 | | 간호 및 조산 | | | Nursing and midwifery | | |
| **(4) 경영, 행정 및 법 (Business, Administration and Law)** | | |  | | 914 | | 의료진단 및 치료기술 | | | Medical diagnostic and treatment technology | | |
| 41 | 경영 및 행정 | Business and administration |  | | 915 | | 치료요법 및 재활 | | | Therapy and rehabilitation | | |
| 42 | 법 | Law |  | | 916 | | 약학 | | | Pharmacy | | |
|  |  |  |  | | 917 | | 한의학 및 대체 의학·치료요법 | | | Korean and complementary medicine and therapy | | |
| **(5) 자연과학, 수학 및 통계학**  **(Natural sciences, Mathematics and Statistics)** | | |  | | 919 | | 기타 보건 | | | Health, Other | | |
| 51 | 생물학 및 관련 과학 | Biological and related sciences |  | | 92 | | 복지 | | | Welfare | | |
| 52 | 환경 | Environment |  | |  | |  | | |  | | |
| 531 | 화학 | Chemistry |  | | **(10) 서비스 (Services)** | | | | | | | |
| 532 | 지구 과학 | Earth sciences |  | | 1011 | | 생활 서비스 | | | Domestic services | | |
| 533 | 물리학 | Physics |  | | 1012 | | 이∙미용 서비스 | | | Hair and beauty services | | |
| 54 | 수학 및 통계학 | Mathematics and statistics |  | | 1013 | | 숙박, 외식 및 조리 서비스 | | | Hotel, restaurant and catering | | |
|  |  |  |  | | 1014 | | 스포츠 | | | Sports | | |
| **(6) 정보통신 기술**  **(ICTs: Information and Communication Technologies)** | | |  | | 1015 | | 여행, 관광 및 여가 | | | Travel, tourism and leisure | | |
| 611 | 컴퓨터 활용 | Computer use |  | | 1019 | | 기타 개인 서비스 | | | Personal services, Other | | |
| 612 | 데이터베이스 및 네트워크 설계·운영 | Database and network design and administration |  | | 102 | | 위생 및 산업보건 서비스 | | | Hygiene and occupational health services | | |
| 613 | 소프트웨어 및 응용프로그램 개발·분석 | Software and applications development and analysis |  | | 103 | | 보안 서비스 | | | Security services | | |
|  |  |  |  | | 104 | | 운송 서비스 | | | Transport services | | |

Appendix 2. Country Code

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 288 | Ghana (GHA) |  | 584 | Marshall Islands (MHL) |  | 682 | Saudi Arabia (SAU) |  | 92 | British Virgin Islands (VGB) |  | 178 | Congo (COG) |
| 266 | Gabon (GAB) |  | 175 | Mayotte (MYT) |  | 239 | South Georgia And The South Sandwich Islands (SGS) |  | 86 | British Indian Ocean Territory (IOT) |  | 180 | Democratic Republic of the Congo (COD) |
| 328 | Guyana (GUY) |  | 446 | Macau (MAC) |  | 674 | San Marino (SMR) |  | 887 | Yemen (YEM) |  | 192 | Cuba (CUB) |
| 270 | Gambia (GMB) |  | 807 | Macedonia (MKD) |  | 678 | Sao Tome And Principe (STP) |  | 512 | Oman (OMN) |  | 414 | Kuwait (KWT) |
| 831 | Guernsey Island (GGY) |  | 454 | Malawi (MWI) |  | 666 | Saint-Pierre-et-miquelon (SPM) |  | 36 | Australia (AUS) |  | 184 | Cook Islands (COK) |
| 312 | Guadeloupe (GLP) |  | 458 | Malaysia (MYS) |  | 732 | Western Sahara (ESH) |  | 40 | Austria (AUT) |  | 191 | Croatia (HRV) |
| 320 | Guatemala (GTM) |  | 466 | Mali (MLI) |  | 686 | Senegal (SEN) |  | 340 | Honduras (HND) |  | 162 | Christmas Islands (CXR) |
| 316 | Guam (GUM) |  | 833 | Isle of Man (IMN) |  | 688 | Serbia (SRB) |  | 248 | Aland (ALA) |  | 417 | Kyrgyzstan (KGZ) |
| 308 | Grenada (GRD) |  | **484** | **Mexico (MEX)** |  | 690 | Seychelles (SYC) |  | 400 | Jordan (JOR) |  | 296 | Kiribati (KIR) |
| 300 | Greece (GRC) |  | 492 | Monaco (MCO) |  | 662 | Saint Lucia (LCA) |  | 800 | Uganda (UGA) |  | 196 | Cyprus (CYP) |
| 304 | Greenland (GRL) |  | 504 | Morocco (MAR) |  | 670 | Saint Vincent And The Grenadines (VCT) |  | 858 | Uruguay (URY) |  | **764** | **Thailand (THA)** |
| 324 | Guinea (GIN) |  | 480 | Mauritius (MUS) |  | 659 | Saint Kitts And Nevis (KNA) |  | 860 | Uzbekistan (UZB) |  | 762 | Tajikistan (TJK) |
| 624 | Guinea-Bissau (GNB) |  | 478 | Mauritania (MRT) |  | 654 | Saint Helena (SHN) |  | 804 | Ukraine (UKR) |  | 834 | Tanzania (TZA) |
| 516 | Namibia (NAM) |  | 508 | Mozambique (MOZ) |  | 706 | Somalia (SOM) |  | 876 | Wallis And Futuna Islands (WLF) |  | 796 | Turks And Caicos Islands (TCA) |
| 520 | Nauru (NRU) |  | 499 | Montenegro (MNE) |  | 90 | Solomon Islands (SLB) |  | 368 | Iraq (IRQ) |  | 792 | Turkey (TUR) |
| 566 | Nigeria (NGA) |  | 500 | Montserrat (MSR) |  | 736 | Sudan (SDN) |  | 364 | Iran (IRN) |  | 768 | Togo (TGO) |
| 10 | Antarctica (ATA) |  | 498 | Moldova (MDA) |  | 740 | Suriname (SUR) |  | 376 | Israel (ISR) |  | 772 | Tokelau (TKL) |
| 728 | South Sudan (SSD) |  | 462 | Maldives (MDV) |  | 144 | Sri Lanka (LKA) |  | 818 | Egypt (EGY) |  | 776 | Tonga (TON) |
| 710 | South Africa (ZAF) |  | 470 | Malta (MLT) |  | 744 | Svabard And Jam Mayen Island (SJM) |  | 380 | Italy (ITA) |  | 795 | Turkmenistan (TKM) |
| **528** | **Netherlands (NLD)** |  | 496 | Mongolia (MNG) |  | 748 | Swaziland (SWZ) |  | 360 | Indonesia (IDN) |  | 798 | Tuvalu (TUV) |
| 530 | Netherlands Antilles (ANT) |  | **840** | **United States of America (USA)** |  | **752** | **Sweden (SWE)** |  | **356** | **India (IND)** |  | 788 | Tunisia (TUN) |
| 524 | Nepal (NPL) |  | 581 | United States Minor Outlying Island (UMI) |  | 756 | Switzerland (CHE) |  | **392** | **Japan (JPN)** |  | 780 | Trinidad And Tobago (TTO) |
| 578 | Norway (NOR) |  | 850 | US Virgin Islands (VIR) |  | **724** | **Spain (ESP)** |  | 388 | Jamaica (JAM) |  | 591 | Panama (PAN) |
| 574 | Norfolk Island (NFK) |  | 104 | Myanmar (MMR) |  | 703 | Slovakia (SVK) |  | 894 | Zambia (ZMB) |  | 600 | Paraguay (PRY) |
| 540 | New Caledonia (NCL) |  | 583 | Micronesia (FSM) |  | 705 | Slovenia (SVN) |  | 832 | Jersey (JEY) |  | 586 | Pakistan (PAK) |
| 554 | New Zealand (NZL) |  | 548 | Vanuatu (VUT) |  | 760 | Syria (SYR) |  | 226 | Equatorial Guinea (GNQ) |  | 598 | Papua New Guinea (PNG) |
| 570 | Niue (NIU) |  | 48 | Bahrain (BHR) |  | 694 | Sierra Leone (SLE) |  | 408 | Democratic People’s Republic of Korea (PRK) |  | 585 | Palau (PLW) |
| 562 | Niger (NER) |  | 52 | Barbados (BRB) |  | 702 | Singapore (SGP) |  | 268 | Georgia (GEO) |  | 275 | Palestine (PSE) |
| 558 | Nicaragua (NIC) |  | 336 | Vatican City State (VAT) |  | 784 | United Arab Emirates (ARE) |  | 140 | Central African Republic (CAF) |  | 234 | Faroe Islands (FRO) |
| **410** | **Republic of Korea (KOR)** |  | 44 | Bahamas (BHS) |  | 533 | Aruba (ABW) |  | 158 | Taiwan (TWN) |  | 604 | Peru (PER) |
| 208 | Denmark (DNK) |  | 50 | Bangladesh (BGD) |  | 51 | Armenia (ARM) |  | **156** | **China (CHN)** |  | 620 | Portugal (PRT) |
| 212 | Commonwealth of Dominica (DMA) |  | 60 | Bermuda (BMU) |  | 32 | Argentina (ARG) |  | 262 | Djibouti (DJI) |  | 238 | Falkland Islands (FLK) |
| 214 | Dominican Republic (DOM) |  | 204 | Benin (BEN) |  | 16 | American Samoa (ASM) |  | 292 | Gibraltar (GIB) |  | 616 | Poland (POL) |
| 276 | Germany (DEU) |  | 862 | Venezuela (VEN) |  | 352 | Iceland (ISL) |  | 716 | Zimbabwe (ZWE) |  | 630 | Puerto Rico (PRI) |
| 626 | East Timor (TLS) |  | **704** | **Vietnam (VNM)** |  | 332 | Haiti (HTI) |  | 148 | Chad (TCD) |  | **250** | France (FRA) |
| 418 | Laos (LAO) |  | 56 | Belgium (BEL) |  | 372 | Ireland (IRL) |  | 203 | Czech (CZE) |  | 254 | French Guiana (GUF) |
| 430 | Liberia (LBR) |  | 112 | Belarus (BLR) |  | 31 | Azerbaijan (AZE) |  | 152 | Chile (CHL) |  | 260 | French Southern Territories (ATF) |
| 428 | Latvia (LVA) |  | 84 | Belize (BLZ) |  | 4 | Afghanistan (AFG) |  | 120 | Cameroon (CMR) |  | 258 | French Polynesia (PYF) |
| **643** | **Russia (RUS)** |  | 70 | Bosnia Hercegovina (BIH) |  | 20 | Andorra (AND) |  | 132 | Cape Verde (CPV) |  | 242 | Fiji (FJI) |
| 422 | Lebanon (LBN) |  | 72 | Botswana (BWA) |  | 8 | Albania (ALB) |  | 398 | Kazakhstan (KAZ) |  | 246 | Finland (FIN) |
| 426 | Lesotho (LSO) |  | 68 | Bolivia (BOL) |  | 12 | Algeria (DZA) |  | 634 | Qatar (QAT) |  | **608** | **Philippines (PHL)** |
| 638 | Reunion (REU) |  | 108 | Burundi (BDI) |  | 24 | Angola (AGO) |  | 116 | Cambodia (KHM) |  | 612 | Pitcairn (PCN) |
| 642 | Romania (ROU) |  | 854 | Burkina Faso (BFA) |  | 28 | Antigua And Barbuda (ATG) |  | 124 | Canada (CAN) |  | 334 | Heard And Mc Donald Islands (HMD) |
| 442 | Luxembourg (LUX) |  | 74 | Bouvet Island (BVT) |  | 660 | Anguilla (AIA) |  | 404 | Kenya (KEN) |  | 348 | Hungary (HUN) |
| 646 | Rwanda (RWA) |  | 64 | Bhutan (BTN) |  | 232 | Eritrea (ERI) |  | 136 | Cayman Islands (CYM) |  | 344 | Hong Kong (HKG) |
| 434 | Libya (LBY) |  | 580 | Northern Mariana Islands (MNP) |  | 233 | Estonia (EST) |  | 174 | Comoros (COM) |  |  |  |
| 440 | Lithuania (LTU) |  | 100 | Bulgaria (BGR) |  | 218 | Ecuador (ECU) |  | 188 | Costa Rica (CRI) |  |  |  |
| 438 | Liechtenstein (LIE) |  | 76 | Brazil (BRA) |  | 231 | Ethiopia (ETH) |  | 166 | Cocos Islands (CCK) |  |  |  |
| 450 | Madagascar (MDG) |  | 96 | Brunei (BRN) |  | 222 | El Salvador (SLV) |  | 384 | Cote D`ivoire (CIV) |  |  |  |
| 474 | Martinique (MTQ) |  | 882 | Samoa (WSM) |  | **826** | **United Kingdom (GBR)** |  | 170 | Colombia (COL) |  |  |  |

Appendix 3. Industry Code

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| **농업, 임업 및 어업 (Agriculture, forestry and fishing)** | | |  | **숙박 및 음식점업 (Accommodation and food service activities)** | | | | |
| 01 | 농업 | Agriculture |  | 55 | | 숙박업 | | Accommodation |
| 02 | 임업 | Forestry |  | 56 | | 음식점 및 주점업 | | Food and beverage service activities |
| 03 | 어업 | Fishing and aquaculture |  |  | |  | |  |
|  |  |  |  | **정보통신업 (Information and communication)** | | | | |
| **광업 (Mining and quarrying)** | | |  | 58 | | 출판업 | | Publishing activities |
| 05 | 석탄, 원유 및 천연가스 광업 | Mining of coal, crude petroleum and natural gas |  | 59 | | 영상·오디오 기록물 제작 및 배급업 | | Motion picture, video and television programme production, sound recording and music publishing activities |
| 06 | 금속 광업 | Mining of metal ores |  | 60 | | 방송업 | | Broadcasting activities |
| 07 | 비금속광물 광업; 연료용 제외 | Mining of non-metallic minerals, except fuel |  | 61 | | 우편 및 통신업 | | Postal activities and telecommunications |
| 08 | 광업 지원 서비스업 | Mining support service activities |  | 62 | | 컴퓨터 프로그래밍, 시스템 통합 및 관리업 | | Computer programming, consultancy and related activities |
|  |  |  |  | 63 | | 정보서비스업 | | Information service activities |
| **제조업 (Manufacturing)** | | |  |  | |  | |  |
| 10 | 식료품 제조업 | Manufacture of food products |  | **금융 및 보험업 (Financial and insurance activities)** | | | | |
| 11 | 음료 제조업 | Manufacture of beverages |  | 64 | | 금융업 | | Financial service activities, except insurance and pension funding |
| 12 | 담배 제조업 | Manufacture of tobacco products |  | 65 | | 보험 및 연금업 | | Insurance and pension funding |
| 13 | 섬유제품 제조업; 의복 제외 | Manufacture of textiles, except apparel |  | 66 | | 금융 및 보험관련 서비스업 | | Activities auxiliary to financial service and insurance activities |
| 14 | 의복, 의복 액세서리 및 모피제품 제조업 | Manufacture of wearing apparel, clothing accessories and fur articles |  |  | |  | |  |
| 15 | 가죽, 가방 및 신발 제조업 | Manufacture of leather, luggage and footwear |  | **부동산업**  **(Real estate activities)** | | | | |
| 16 | 목재 및 나무제품 제조업; 가구 제외 | Manufacture of wood and of products of wood and cork; except furniture |  | 68 | | 부동산업 | | Real estate activities |
| 17 | 펄프, 종이 및 종이제품 제조업 | Manufacture of pulp, paper and paper products |  |  | |  | |  |
| 18 | 인쇄 및 기록매체 복제업 | Printing and reproduction of recorded media |  | **전문, 과학 및 기술 서비스업**  **(Professional, scientific and technical activities)** | | | | |
| 19 | 코크스, 연탄 및 석유정제품 제조업 | Manufacture of coke, briquettes and refined petroleum products |  | 701 | 자연과학 및 공학 연구개발업 | | Research and experimental development on natural sciences and engineering | |
| 20 | 화학 물질 및 화학제품 제조업; 의약품 제외 | Manufacture of chemicals and chemical products; except pharmaceuticals and medicinal chemicals |  | 702 | 인문 및 사회과학 연구개발업 | | Research and experimental development on social sciences and humanities | |
| 21 | 의료용 물질 및 의약품 제조업 | Manufacture of pharmaceuticals, medicinal chemical and botanical products |  | 71 | 전문 서비스업 | | Professional services | |
| 22 | 고무 및 플라스틱제품 제조업 | Manufacture of rubber and plastics products |  | 72 | 건축 기술, 엔지니어링 및 기타 과학기술 서비스업 | | Architectural, engineering and other scientific technical services | |
| 23 | 비금속 광물제품 제조업 | Manufacture of other non-metallic mineral products |  | 73 | 기타 전문, 과학 및 기술 서비스업 | | Other professional, scientific and technical services | |
| 24 | 1차 금속 제조업 | Manufacture of basic metals |  |  |  | |  | |
| 25 | 금속 가공제품 제조업; 기계 및 가구 제외 | Manufacture of fabricated metal products, except machinery and furniture |  | **사업시설 관리, 사업 지원 및 임대 서비스업**  **(Business facilities management and business support services; rental and leasing activities)** | | | | |
| 26 | 전자 부품, 컴퓨터, 영상, 음향 및 통신장비 제조업 | Manufacture of electronic components, computer; visual, sounding and communication equipment |  | 74 | 사업시설 관리 및 조경 서비스업 | | Business facilities management and landscape services | |
| 27 | 의료, 정밀, 광학 기기 및 시계 제조업 | Manufacture of medical, precision and optical instruments, watches and clocks |  | 75 | 사업 지원 서비스업 | | Business support services | |
| 28 | 전기장비 제조업 | Manufacture of electrical equipment |  | 76 | 임대업; 부동산 제외 | | Rental and leasing activities; except real estate | |
| 29 | 기타 기계 및 장비 제조업 | Manufacture of other machinery and equipment |  |  |  | |  | |
| 30 | 자동차 및 트레일러 제조업 | Manufacture of motor vehicles, trailers and semitrailers |  | **공공 행정, 국방 및 사회보장 행정**  **(Public administration and defence; compulsory social security)** | | | | |
| 31 | 기타 운송장비 제조업 | Manufacture of other transport equipment |  | 84 | 공공 행정, 국방 및 사회보장 행정 | | Public administration and defence; compulsory social security | |
| 32 | 가구 제조업 | Manufacture of furniture |  |  |  | |  | |
| 33 | 기타 제품 제조업 | Other manufacturing |  |  | | | | |
| 34 | 산업용 기계 및 장비 수리업 | Maintenance and repair services of industrial machinery and equipment |  |  |  | |  | |
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| **전기, 가스, 증기 및 공기 조절 공급업**  **(Electricity, gas, steam and air conditioning supply)** | | |  | **교육 서비스업**  **(Education)** | | | | |
| 35 | 전기, 가스, 증기 및 공기 조절 공급업 | Electricity, gas, steam and air conditioning supply |  | 851 | 초등 교육기관 | | Pre-primary and primary education | |
|  | 852 | 중등 교육기관 | | Secondary education | |
|  |  |  |  | 853 | 고등 교육기관 | | Higher education | |
| **수도, 하수 및 폐기물 처리, 원료 재생업**  **(Water supply; sewage, waste management, materials recovery)** | | |  | 854 | 특수학교, 외국인학교 및 대안학교 | | Special schools, foreign schools, alternative schools | |
| 36 | 수도업 | Water supply |  | 855 | 일반 교습학원 | | General educational institute | |
| 37 | 하수, 폐수 및 분뇨 처리업 | Sewage, wastewater, human animal waste treatment services |  | 856 | 기타 교육기관 | | Other educational institute | |
| 38 | 폐기물 수집, 운반, 처리 및 원료 재생업 | Waste collection, treatment and disposal activities; materials recovery |  | 857 | 교육 지원 서비스업 | | Educational support acitvities | |
| 39 | 환경 정화 및 복원업 | Remediation activities and other waste management services |  |  |  | |  | |
|  |  |  |  | **보건업 및 사회복지 서비스업**  **(Human health and social work activities)** | | | | |
| **건설업 (Construction)** | | |  | 86 | 보건업 | | Human health activities | |
| 41 | 종합 건설업 | General construction |  | 87 | 사회복지 서비스업 | | Social work activities | |
| 42 | 전문직별 공사업 | Specialized construction activities |  |  |  | |  | |
|  |  |  |  | **예술, 스포츠 및 여가관련 서비스업**  **(Arts, sports and recreation related services)** | | | | |
| **도매 및 소매업**  **(Wholesale and retail trade)** | | |  | 90 | 창작, 예술 및 여가관련 서비스업 | | Creative, arts and recreation related services | |
| 45 | 자동차 및 부품 판매업 | Sale of motor vehicles and parts |  | 91 | 스포츠 및 오락관련 서비스업 | | Sports activities and amusement activities | |
| 46 | 도매 및 상품 중개업 | Wholesale trade on own account or on a fee or contract basis |  |  |  | |  | |
| 47 | 소매업; 자동차 제외 | Retail trade, except motor vehicles and motorcycles |  | **협회 및 단체, 수리 및 기타 개인 서비스업**  **(Membership organizations, repair and other personal services)** | | | | |
|  |  |  |  | 94 | 협회 및 단체 | | Membership organizations | |
| **운수 및 창고업**  **(Transportation and storage)** | | |  | 95 | 개인 및 소비용품 수리업 | | Maintenance and repair services of personal and household goods | |
| 49 | 육상 운송 및 파이프라인 운송업 | Land transport and transport via pipelines |  | 96 | 기타 개인 서비스업 | | Other personal services activities | |
| 50 | 수상 운송업 | Water transport |  |  |  | |  | |
| 51 | 항공 운송업 | Air transport |  | **가구 내 고용활동 및 달리 분류되지 않은 자가 소비 생산활동**  **(Activities of household as employers; undifferentiated goods-and services-producing activities of)** | | | | |
| 52 | 창고 및 운송관련 서비스업 | Warehousing and support activities for transportation |  | 97 | 가구 내 고용활동 | | Activities of households as employers of domestic personnel | |
|  |  |  |  | 98 | 달리 분류되지 않은 자가 소비를 위한 가구의 재화 및 서비스 생산활동 | | Undifferentiated goods-and services-producing activities of private households for own use | |
|  |  |  |  |  |  | |  | |
|  |  |  |  | **국제 및 외국기관**  **(Activities of extraterritorial organizations and bodies)** | | | | |
|  | | |  | 99 | 국제 및 외국기관 | | Activities of extraterritorial organizations and bodies | |