

**Questionnaire for 2024 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 |

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|  |  |  |  | (YYYY) |

 | Nationality\* | □① Korea

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| □② Other | (Country Code: |  |  |  | ) |

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| Major |   |

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| **\* *If your nationality is not Korea, please write down your country code (refer to Appendix 2****).* |
| **Degree Information** |
| Type ofDegree | Date of Entrance/ Graduation(YYYY/MM) | Name of University | Field Code\*(refer to the sample) | DepartmentCode\*\* | Type of University | Type of Graduate School | Location of Institution\*\*\* |
| (1)Bachelor | Entrance |

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| (2)Master | Entrance |

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| (3)Doctorate | Entrance |

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| ∙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.**

Kwangnam JANG KRIVET 044-415-5149 knjang@krivet.re.kr

Hyunsik CHOI KRIVET 044-415-3803 hyun.choi@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)?**

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| (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?**

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| (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?**

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| --- | --- |
| (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?**

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| --- | --- | --- | --- |
| **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) TotalParticipation Period |
| (1) | □① Yes □② No **☞ Go to item 5.(2-1)** | **Total ( )** | Central/ Local Government ( )Corporation ( )Other ( ) |

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Month(s) |
| (2) | (2-1) BK21Plus Participation | **(**2-2) programs supported by BK21Plus(mark one or more) | (2-4) TotalParticipation 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 |

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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?(Please write down 1st, 2nd rank)**

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

**☞ After answering, go to item ‘Ⅱ. Plan after Graduation and State of Employment’.**

□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 ‘Ⅲ. (Admitted) Employees’.** □② Admitted for employment **☞ Go to item ‘Ⅲ. (Admitted) Employees’.**(except postdoc/ lecturer)□③ Admitted for a postdoc **☞ Go to item ‘Ⅲ. (Admitted) Employees’.**□④ Admitted for a lecturer **☞ Go to item ‘Ⅲ. (Admitted) Employees’.**□⑤ Unemployed, on job searching **☞ Go to item ‘Ⅳ. Job Seekers and Career Changers’.**□⑥ Unemployed, no plan for job searching **☞ Go to item 8-1.** | **8-1. Why are you not planning to search for a job?****(choose one primary reason)****☞ Go to item ‘Ⅴ. Postdoctoral Program’**□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.**

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| (1) Overseas Employment or not | (2) Location\* | (3) Industry type\*\* | (4) Number of Employees\*\*\* |
| □① Korea |

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| (City/Province: |  |  | ) |

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| (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 |

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| (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?**

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| □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** |

**16. 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 ‘Ⅴ. Postdoctoral Program’.**

 **17. 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

 **18. 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

 **19. How much annual salary do you expect?** **☞ After this question, please go to item ‘V. Postdoctoral Program’.**

□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** |

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

□① Admitted as a postdoctoral researcher **☞ Go to item 21.** □② Plan(Prepare) to apply **☞ Go to item 21.** □③ None. **☞ Go to item ‘Ⅵ. Lecturer’.**

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

□① Korea **☞ Go to item 22.** □② Abroad (Country Code: )**☞ Go to item 21-1.**

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

 **21-1. 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

**22. Where is source of funding for the program? ☞ After answering, go to item ‘Ⅵ. Lecturer’.**

□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.***

 **23. 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.**

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

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| (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, advising② 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 survey② Offering publications using research data on doctorate holders③ Reflection of advisory group’s opinion when collecting data for policy-making④ 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) |
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※ 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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** **2024 . . .**C:\Users\moe\Desktop\MI_MOE\jpg\교육부_영_좌우.jpgC:\Users\KRIVET\Desktop\기관명 변경_로고타입 및 레터마크 수정본(20210513)\가로조합(영문)jpg.jpg |

Appendix 1. Department Codes List

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| **(1) 교육 (Education)** |  | **(6) 정보통신 기술 (ICTs: Information and Communication Technologies)** |
| 0111 | 교육학 | Education  |  | 0610 | 정보통신 기술(ICTs) 관련 분야 프로그램 | Programs in Information and Communication Technology (ICTs) related fields |
| 0112 | 보육을 포함한 유아교육 | Early Childhood Education, including Childcare |  | 0611 | 컴퓨터 활용 | Computer use |
| 0113 | 전공과목 없는 교사교육 | Teacher Education without a Specific Subject |  | 0612 | 데이터베이스 및 네트워크 설계·운영 | Database and network design and administration |
| 0114 | 전공과목 있는 교사교육 | Teacher Education with a Specific Subject |  | 0613 | 소프트웨어 및 응용프로그램 개발·분석 | Software and applications development and analysis |
| 0119 | 기타 교육 | Other Education  |  |  |  |  |
|  |  |  |  | **(7) 공학, 제조 및 건설 (Engineering, Manufacturing and Construction)** |
| **(2) 예술 및 인문학 (Arts and Humanities)** |  | 0710 | 공학 관련 분야 프로그램 | Programs in Engineering-related Fields |
| 0210 | 예술 관련 분야 프로그램 | Programs in the Field of Arts |  | 0711 | 화학공학 및 공정 | Chemical engineering and processes |
| 0211 | 시청각 기술 및 미디어 제작 | Audio-visual techniques and media production |  | 0712 | 환경보호 기술 | Environmental protection technology |
| 0212 | 패션 디자인 | Fashion design |  | 0713 | 전기 및 에너지 | Electricity and energy |
| 0213 | 인테리어 및 산업 디자인 | Interior and industrial design |  | 0714 | 전자 및 자동화 | Electronics and automation |
| 0214 | 미술 | Fine arts |  | 0715 | 기계 및 금속 | Mechanics and metal trades |
| 0215 | 공예 | Handicrafts |  | 0716 | 자동차, 선박 및 항공기 | Motor vehicles, ships and aircraft |
| 0216 | 음악 및 공연예술 | Music and performing arts |  | 0718 | 공학 관련 융·복합 프로그램 | Interdisciplinary Programs in Engineering |
| 0218 | 예술 관련 융·복합 프로그램 | Interdisciplinary Arts Programs |  | 0719 | 기타 공학 | Other Engineering |
| 0219 | 기타 예술 | Other Arts |  | 0721 | 식품 가공 | Food Processing |
| 0220 | 인문학(어문학 제외) 관련 분야 프로그램 | Humanities (excluding language studies) related programs |  | 0722 | 재료(유리, 종이, 플라스틱 및 목재) | Materials (Glass, Paper, Plastic, and Wood) |
| 0221 | 종교 및 신학 | Religious Studies and Theology |  | 0723 | 섬유(의류, 신발 및 가죽) | Textiles (Clothing, Footwear, and Leather) |
| 0222 | 역사 및 고고학 | History and Archaeology |  | 0724 | 자원 채굴 및 추출 | Resource Mining and Extraction |
| 0223 | 철학 및 윤리학 | Philosophy and Ethics |  | 0731 | 건축 및 도시설계 | Architecture and Urban Design |
| 0231 | 언어 습득 | Language Acquisition |  | 0732 | 건설 및 토목공학 | Construction and Civil Engineering |
| 0232 | 문학 및 언어학 | Literature and Linguistics |  |  |  |  |
| 0288 | 예술 및 인문학 관련 융·복합 프로그램 | Interdisciplinary Programs in Arts and Humanities |  | **(8) 농림어업 및 수의학 (Agriculture, Forestry, Fishery and Veterinary)** |
|  |  |  |  | 0811 | 작물 및 축산 | Crop Science and Animal Science |
| **(3) 사회과학, 언론 및 정보학 (Social sciences, Journalism and Information)** |  | 0812 | 원예 | Horticulture |
| 0311 | 경제학 | Economics |  | 0821 | 임업 | Forestry |
| 0312 | 정치학 및 시민학 | Political sciences and civics |  | 0831 | 어업 | Fisheries |
| 0313 | 심리학 | Psychology |  | 0841 | 수의학 | Veterinary Medicine |
| 0314 | 사회학 및 문화연구 | Sociology and cultural studies |  |  |  |  |
| 0321 | 언론 및 보도 | Journalism and Media |  | **(9) 보건 및 복지 (Health and Welfare)** |
| 0322 | 문헌정보학 및 기록학 | Library and Information Science, and Archival Studies |  | 0910 | 보건 관련 분야 프로그램 | Programs in Health-related Fields |
|  |  |  |  | 0911 | 치의학 | Dental studies |
| **4) 경영, 행정 및 법 (Business, Administration and Law)** |  | 0912 | 의학 | Medicine |
| 0410 | 경영 및 행정 관련 분야 프로그램 | Programs in Business Administration and Public Administration |  | 0913 | 간호 및 조산 | Nursing and midwifery |
| 0411 | 회계 및 세무 | Accounting and Taxation |  | 0914 | 의료진단 및 치료기술 | Medical diagnostic and treatment technology |
| 0412 | 재무, 금융 및 보험 | Finance, Banking, and Insurance |  | 0915 | 치료요법 및 재활 | Therapy and rehabilitation |
| 0413 | 경영 | Business Administration  |  | 0916 | 약학 | Pharmacy |
| 0414 | 행정 | Public Administration |  | 0917 | 한의학 및 대체 의학·치료요법 | Korean and complementary medicine and therapy |
| 0415 | 마케팅 및 광고 | Marketing and Advertising |  | 0918 | 보건 관련 융·복합 프로그램 | Interdisciplinary Programs in Health Sciences |
| 0416 | 비서 및 사무 | Secretarial and Administrative |  | 0919 | 기타 보건 | Other Health |
| 0417 | 무역 및 매매 | Trade and Commerce |  | 0921 | 노인 및 성인 장애인 돌봄 | Elderly and Adult Disability Care |
| 0421 | 법 | Law |  | 0922 | 보육 및 아동∙청소년 서비스 | Childcare and Youth Services |
|  |  |  |  | 0923 | 사회복지 및 상담 | Social Welfare and Counseling |
| **(5) 자연과학, 수학 및 통계학 (Natural sciences, Mathematics and Statistics)** |  | 0928 | 복지 관련 융·복합 프로그램 | Interdisciplinary Programs in Welfare |
| 0510 | 생물학 및 관련 과학 관련 분야 프로그램 | Programs in Biology and Related Sciences |  |  |  |  |
| 0511 | 생물학 | Biology |  | **(10) 서비스 (Services)** |
| 0512 | 생화학 | Biochemistry |  | 1011 | 생활 서비스 | Domestic services |
| 0518 | 생물학 및 관련 과학 관련 융·복합 프로그램 | Interdisciplinary Programs in Biology and Related Sciences |  | 1012 | 이·미용 서비스 | Hair and beauty services |
| 0519 | 기타 생물학 및 관련 과학 | Other Biology and Related Sciences |  | 1013 | 숙박, 외식 및 조리 서비스 | Hotel, restaurant and catering |
| 0520 | 환경 관련 분야 프로그램 | Programs in Environmental Studies or Environmental Science |  | 1014 | 스포츠 | Sports |
| 0521 | 환경 과학 | Environmental Science |  | 1015 | 여행, 관광 및 여가 | Travel, tourism and leisure |
| 0522 | 자연환경 및 야생생물 | Natural Environment and Wildlife |  | 1021 | 공중 위생 | Public Health |
| 0531 | 화학 | Chemistry |  | 1022 | 산업보건 및 안전 | Industrial Health and Safety |
| 0532 | 지구 과학 | Earth sciences |  | 1031 | 군사 및 국방 | Military and Defense |
| 0533 | 물리학 | Physics |  | 1032 | 경호 및 경비 | Security and Surveillance |
| 0541 | 수학 | Mathematics |  | 1041 | 운송 서비스 | Transportation Services |
| 0542 | 통계학 | Statistics |  |  |  |  |

Appendix 2. Country Code

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 |
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|  |  |  |  | **국제 및 외국기관****(Activities of extraterritorial organizations and bodies)** |
|  |  | 99 | 국제 및 외국기관 | Activities of extraterritorial organizations and bodies |