National Chung Hsing University Doctoral Program in Data Science and Industrial Analytics Doctoral Qualification Examination Specific Rules

Article 1 The Doctoral Program in Data Science and Industrial Analytics has formulated the *Doctoral Qualification Examination Specific Rules* in accordance with Article 5 of the *Doctoral Degree Candidate Qualification Examination Regulations*.

Article 2 Examination subjects: Candidates shall select two subjects from the following: Data Science, Machine Learning, Applied Statistics, Regression Analysis, Computer Networks, Operating Systems, Database Systems, Computer Architecture, and Algorithms.

Article 3 Examination date: Held within the first week of each semester (i.e., the instructions start date).

Article 4 Examination application: Applicants shall apply to the Program for the examination and select their subjects prior to the final examination week in the previous semester. Once the examination subjects have been chosen, they cannot be changed.

Article 5 Examination standards: Each subject is graded out of 100, with 70 being the passing grade.

Article 6 Written examination question-setting: Question-setting committee members of each subject must submit the examination questions directly to the Program director for review.

Article 7 Written examination grading: Each committee member grades only answers to questions they set, and the grades are submitted confidentially to the Program director. Once all the committee members have completed grading their portions, the convener of each subject calculates and publicly announces the total grade. No changes to the grades can be made they have been announced.

Article 8 Exemptions from qualification examinations: Doctoral students may apply for exemptions from qualification examinations before the first scheduled examination. The exemption regulations are as follows:

1. Doctoral students who wish to apply for exemptions from qualification examinations must do so no later than the end of their fifth semester. However, the aforementioned deadline requirement may be waived for special cases upon review and approval by the Program Meetings.
2. The qualification examination may be waived by presenting a published paper. For example, the students must have one paper published in an SCI-, SCIE-, SSCI-, EI-, or Scopus-indexed journal under the auspices of the Program. The paper must be accepted or published and must be co-authored with the student's advisor (including co-advisor), with the student being the sole first author. The paper will not be counted as part of the student's dissertations required for

graduation.

3. Students may apply for exemptions from qualification examinations if they have obtained an invention patent in the Republic of China (Taiwan), European Union, United States, or Japan. The patent must meet the following conditions: The patent right holders must include the University, and the students (not counting their advisors) must be the first inventors. The patent must be in effect no later than the end of the fifth semester.

4. Papers or patents submitted for qualification examination exemption are limited to one paper or patient per student.

Article 9 If candidates take a leave of absence in the semester following the qualification examination, any subjects passed during that examination will be disregarded. Special cases may be reviewed and decided by relevant Program Meetings.

Article 10 The Specific Rules and any amendments made hereto shall be implemented upon passage by the Program Meeting.