## Master's degree minimum requirements

[Civil Engineering Program]

Completion of master theis & 30 credits to fulfill Instruction A & B)

- A. To pass intermediate presentaion exam & final presentation (including 2 credis for Advanced Engineering & 2 credits for Engineering Seminar)
- To earn 26 or more credits listed below;
- B-1. 6 or more credits from Module AB-2. 6 or more credits from Module B
- B-3. 4 or more credits from Module C & D

Master's candidate must fulfill the requirements of "Registration Guideline" .

[Graduate school of Engineering]

Maste thesis & 30 credits listed below;

- 1. 6 or more credits from "Advanced Subjects" 2. 6 or more credits from "Advanced Specialized Subjects"
- 3. 2 or more credits from "Professsional Skill Developments"

|  | Fall 2018  |   | Spring 2019   |  | Fall 2019   |  | Spring 2020   |  |
|--|--|---|---|--|---|--|---|--|
|  | Autumn   | Winter  | Spring  | Summer                                 | Autumn  | Winter   | Spring  | Summer   |
| Master<br>theis  | (Review)<br>(Plan)   |   | <del> </del>  |  |   | (Intermediate presentation exam)   | <b>———</b>  | Final presentation  Advanced Engineering (2 $\diamondsuit$ ) * |
|  |  |   | <b> </b>  |  |   |  | * Given by your supervisor  | Engineering<br>Seminar (2♢) *                                  |
| Module A<br>(Civil core<br>subject)<br>Min. 6 credits) |  |   |   | patial Information<br>2☆) → J(E)       | Subj<br>No.<br>Cre<br>Cat                                       | gend Subject  [IM1677] Advar Data Analysi (22) E  edit(s) tegory : Advanced : Advanced special : Professional skill developments | Thick line: cor<br>Thin line: electors<br>Language<br>J: Japanese-k<br>E: English-bas<br>J(E): Japanes<br>E(J): English | tive<br>pased<br>sed<br>e & English                            |
| Module B (C<br>Structural<br>& material                | ivil specialized subj<br>[IM212] Adva<br>Structures                |   |   |  |   |  | [IM111] Advan<br>Engineerin<br>[IM118] Advan  | g (2©) E   |
| Geotechnical   | [IM113] Advance<br>Modeling and its Ap                             | d Geotechnical<br>oplication (2⊚) E                       | [IM121] Geo-envir<br>Engineerin<br>[IM140] Mechanics<br>(2© | g (2⊚) E<br>s of Geomaterials          | [IM114] Advance<br>and Design                                   | ed Geomechanics<br>n (2©) E  | Ånalysis  [IM115] Risk Manac  Disaster Preve  | ement in Natural   |
| Hydraulic<br>& water<br>resources                      | [IM223] Advan<br>Coastal Engin                                     | ced Ocean and<br>leering(2⊚) E                            |   | [IM214] River<br>Engineering<br>(2⊚) E | [IM222] Enviror<br>Mechanics                                    | nmental Fluid<br>(2⊚) E  |   |  |
| Planning   | [IM224] Urban [<br>Project (2                                      | Development<br>2⊚) E                                      | [IM211] Urba<br>Planning                                    | n Transport<br>(2⊚) E                  |   |  | [IM220] Practical Ap<br>Design in Civil En  | plication of Aestetic<br>gineering (2⊚) E                      |
| Environmental  |  |   | [IM216] Biologica<br>Control Engine                         | l Water Quality<br>ering (2⊚) E        | [IM221] Materi<br>Waste Manage<br>[IM217] Advand<br>Engineering | ment(2©) E<br>ced Ecological   | [IM218] Envi<br>Planning<br>[IM219] Groundwa<br>Systems   | (2⊚ E<br>ter Environmental                                     |
| Module C (Co   | ommunicating & pre<br>[IM251] Presen-<br>tation Exercise<br>(2☆) E | esentation skills)  |   |  |   |  | [IM252] Urban Engi-<br>neering & Economics<br>(2☆) E  |  |
|  |  |   | ams are recommended<br>ool, Graduate Training               |  | Science, QREC (Enti   | repreneurship Educat   | ion), · · ·   |  |
| Module D (Pr   | oject-based learnir  | ng)<br>[IM1679] Problem-<br>Solution Seminar<br>(2♦) J(E) | Stu   | in Environmental<br>dies<br>) J(E)     |   | <b>-</b>   |   |  |
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